The Florida State University
Facility Program

for

Earth Ocean and Atmospheric Sciences
(EOAS)

FS-259

March 2013

Prepared by:

The Facilities Department
Facilities Planning and Space Management Section

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III. Signature Sheet

In accordance with the provisions of the standard practice, the following signatures have been obtained as evidence of the required University approvals.

1. _____
Dr. Robert G. Ellingson
Earth, Ocean & Atmospheric SCI Professor
Building Committee Chair

Signature signifies the Building Committee's approval of this facility program

2. _____
Michael Barrett
Associate Vice President and Chief Information Officer
Information Technology Services (ITS)

Signature signifies that all ITS program requirements have been met.

3. _____
Dennis Bailey
Associate Vice President for Facilities

Signature verifies that this planning document has been developed in accordance with the standard practice for the development of facility programs.

4. _____
Eric J. Barron, Ph.D.
President

Signature signifies the President's approval of this facility program

IV. Introduction

This introduction provides a general overview of the proposed new Earth Ocean and Atmospheric Sciences Facility, including descriptive information about the building, the site, the proposed project delivery system and the designer's scope of work. Additional information about each of these topics can be found elsewhere in this program.

A. Project Background

The Department of Earth, Ocean and Atmospheric Science (EOAS) was formed in 2010 through a merger of the former Departments of Geological Sciences, Oceanography and Meteorology to enhance teaching and research across the geosciences. The former departments were each housed in separate buildings (Carraway, Rogers and Love, respectively) built during the 1950's and 1960's, and except for Geological Sciences, the buildings were shared with other departments. The teaching and research activities of the former departments now joined as EOAS are closely associated with the Geophysical Fluid Dynamics Institute (GFDI) housed in the Keen Building, the Center for Ocean and Atmospheric Prediction Studies (COAPS) housed in the Johnson Building at Innovation Park, and the Florida State University Coastal & Marine Laboratory (FSUCML), located on the Gulf shore, near St. Teresa, FL. None of the on-campus buildings noted above are large enough or have the appropriate laboratories or classrooms necessary for the range of EOAS research and teaching activities. As such, an EOAS Building is proposed to house the research and educational activities of the former departments and their principal collaborators in a modern facility that would serve as a catalyst to achieve the primary goals of the merger – the enhancement of teaching and research within and across the many disciplines necessary to study environmental problems. The department offers a B.S. and B.A. degree in environmental science in addition to the graduate and undergraduate degrees in the specific disciplines. A brief history, description and summary of the facilities currently available to the various units are provided below.

EOAS Units and Collaborators – Brief Histories and facilities

Geological Sciences

The EOAS Geological Sciences unit (GLY) evolved from the Department of Geology founded at FSU in 1949. The GLY offers B.S., M.S. and Ph.D. degree programs in the broad area of the geological sciences. The unit's research focus is in the following areas: hydrology, structure and tectonics, sediment transport and deposition, paleo-oceanography and paleo-climatology, geochemistry, as applied to topics as varied as mantle evolution, global geochemical cycling, climate change and use of isotopes as tracers of transport of anthropogenic substances in the environment, and Antarctic research pertaining to paleo-oceanography.

The Department of Geology moved into the Carraway Building in 1963, and its National Science Foundation (NSF) sponsored Antarctic Marine Geology

Research Facility (AMGRF), connected to Carraway Building on its west end, opened in 1965. In 1994, the department opened a world-class isotope geochemistry facility in cooperation with the National High Magnetic Field Laboratory (NHMFL) in Innovation Park. The Carraway building underwent a $1.2 Million renovation in 1999 with the help of an NSF infrastructure grant, and the department committed significant resources to initiate a state-of-the-art computational infrastructure in 2000. Overall, the unit occupies approximately 54,000 sq. ft. of space in Carraway, the AMGRF and the NHMFL.

The AMGRF is a national repository for geological materials collected from the Antarctic both above and below sea-level. It is supported by an operational grant from the NSF, Office of Polar Programs. The Facility houses over 20,000 meters of deep-sea core sediment and over 5,000 kg. of dredge, trawl, and grab samples. It is the largest such Southern Ocean collection in the world. These materials have been acquired from over 90 USAP research vessel cruises. The Antarctic Research Facility also houses and curates nearly 3,000 meters of rotary-cored geological material acquired by NSF supported drilling programs in the Antarctic.

Research in the geochemistry program carried out at the 10,000 GSF facility at NHMFL. Its research is centered on the use of trace elements and isotopes to understand natural processes in the environment from small scales to whole Earth scale. This research makes use of specialized equipment and laboratories now only available at NHMFL, including a mass spectrometry laboratory, a metal-free class-1000 clean lab, regular chemistry laboratories, and a laboratory for light stable isotope sample preparation. These specialized labs are expected to remain at NHMFL until the completion of Phase II of the EOAS Project.

Long-term storage for GLY remains problematic until the EOAS Project is completed. The unit needs to secure and maintain quality space for accessible storage/archive of geological samples and teaching and research collections, as it does not have adequate (i.e. dry, readily accessible) long-term storage space, short of converting classrooms, to house our scientific collections, some of which represent career-long endeavors. Geological collections – as in biology, anthropology, etc. – need and deserve to be properly curated.

Meteorology

The Department of Meteorology was formed in 1949, originally as part of the Physics department. The following year it became a separate department and remains the only unit in the State University System (SUS) offering undergraduate and graduate degrees in meteorology and historically has offered the most extensive undergraduate and graduate level programs in meteorology of any university in the southeastern United States. The major research areas are: (1) climate studies and global change, (2) satellite and conventional observations, analyses and applications for weather and climate, (3) prediction of tropical systems, and (4) severe weather. Additionally, the department holds special expertise in teaching and outreach areas, including a unique training program for

TV meteorologists that builds upon the meteorological knowledge learned in the classroom.

Meteorology is housed in the James Jay Love Building where it occupies 13,618 sq. ft. in the original wing built in 1960 and 6,400 sq. ft. in the wing opened in December 2001. This space houses offices for its 14 faculty, 15 EOAS staff, teaching assistants, research laboratories that seat many of its approximately 75 graduate students, two 30-seat classrooms, a 30-seat computer laboratory, a 50-seat seminar room, a public area weather map display area, two instrumentation laboratories (one a classroom), a television studio for student participation in weather television broadcasting, a reading room with an assortment of texts and meteorological journals, an LCD weather wall located on the 5th floor of Love Building for viewing many National Weather Service graphical products, and a lunchroom area. Each 30-seat classroom and the seminar room are equipped with computer-controlled projectors, and each classroom is outfitted with 30 Linux workstations mounted in monitor storable desks that enable the room to serve multiple instructional purposes. The unit has priority access to a 1,536 computer node cluster in the FSU High Performance Computer facility, and some faculty maintain computer clusters for their research. The National Weather Service Tallahassee Forecast Office is collocated with Meteorology on the 4th floor of the new wing of the Love Building, and provides collaborative research and training space and opportunities for students and faculty.

The department has been developing a Mobile Doppler Radar Facility (MDRF) mounted on a 10-wheel tractor-trailer since 2001. The MDRF is housed in an off-campus warehouse because of the lack of an on-campus facility necessary for storage and repair.

The Love Building has undergone a variety of renovations since 1960. The 2000-2010 period saw replacement of the floor tiles, renovation of faculty office ceilings and lighting, a re-roofing of the old wing of the building, and repairs and new equipment in the meteorology classrooms. However, as a result of the increase in the size of the undergraduate program coincident with the decreased size of the faculty from 20 to 14, most of our non-laboratory undergraduate courses are taught in the Bellamy and the Classroom Building to accommodate the roughly 50 students in each class.

Oceanography

The EOAS Oceanography (OCN) unit evolved from the Oceanography Research Program at FSU that began in 1949 with the formation of an oceanographic institute that brought together research faculty from the departments of Biological Science, Chemistry, Geology, Meteorology, and Physics. A Ph.D. program was approved in 1963, and the Institute became a department in 1966. Today the OCN offers both Master's and PhD research degrees in oceanography in the three sub-disciplines of physical, chemical and biological oceanography and a non-research master's degree in Aquatic Environmental Sciences (AQES). The unit's primary

objectives are to educate the next generation of oceanographers and to pursue faculty research interests. Included in OCN's accomplishments is recognition of our top ten status in the country by the 1995 and 2010 NRC rankings.

OCN maintains laboratories that are equipped with modern equipment specific to faculty research needs. Laboratories currently in operation in the department are equipped for: water-quality analysis, trace-element analysis, radiochemistry and isotope analysis, hydrocarbon analysis, mariculture, molecular marine biology, deep-sea in-situ monitoring, remote sensing, numerical modeling, and fluid dynamics. In addition the department maintains a fully equipped machine and instrument shop in which machinists design, fabricate and repair custom research equipment. Furthermore, OCN maintains the Marine Field Group that supports state-of-the-art instruments and provides the capability for deep-sea and shallow-water measurements. OCN currently occupies approximately 25,000 sq. ft. in the Rogers and Nuclear Research Buildings.

Overall, OCN suffers from lack of space and from poor quality space. The OCN chemists and biologists, amongst the most productive scientists on campus by several measures, have fewer square feet of lab space per faculty member than any other science department. The lab space in Rogers is a reconstituted 45 year old office space. Due to the space constrains, the units office and laboratory space now are spread across several buildings on and off campus (e.g., in Innovation Park and the NRB building).

As regards the quality of space, the 2008 OCN Quality Enhancement Review (QER) states: "Water penetrates through the window frames flooding offices during rain storms, as consequence molds grow in the carpets leading to allergies and odors. Equipment and documents sitting on the floor are destroyed. During tropical storms, water penetrates into the basement of the building. Contaminated water is dispensed by the drinking fountains in the building due to old piping. Non-corrosive materials used for the piping of our laboratories disintegrate causing leaks and spills. Our elevator breaks down routinely. We have frequent A/C failures (usually in August). The temperature control in the building is poorly designed." Clearly, the quality of the OCN space is not viewed as good!

Center for Ocean Atmosphere Prediction Studies (COAPS)

COAPS, a center in the College of Arts and Sciences, was officially formed in August 1996 by the Florida Board of Regents. COAPS is a center of excellence performing interdisciplinary research in ocean-atmosphere-land-ice interactions to increase our understanding of the physical, social, and economic consequences of climate variability. COAPS has over 50 people working on research grants totaling more than $ 3 Million dollars per year. COAPS faculty is comprised of members of the Meteorology and Oceanography sections of the department of Earth Ocean, and Atmospheric Science. Currently, 19 graduate students are enrolled in the program as well as four undergraduate research scholars. Students in COAPS come from a wide variety of departments including meteorology,

oceanography, computer engineering, computer science, and mathematics and information studies.

COAPS is housed in the Johnson Building at Innovation Park and currently occupies 11,000 sq. ft.

Geophysical Fluid Dynamics Institute (GFDI)

The Geophysical Fluid Dynamics Institute (GFDI) is a Type-II Institute within the College of Arts and Sciences of the Florida State University and is administratively equivalent to a department, with its own PhD program. The mission of GFDI is to promote and stimulate theoretical, numerical, field and laboratory experimental studies of fluid-dynamic phenomena in the atmosphere, rivers and lakes, ground water, oceans, fluids on other planets, and the fluid portions of the Earth's interior, and to apply this knowledge to problems in the geosciences, including environmental problems.

The Geophysical Fluid Dynamics Institute was founded in 1967 as a cooperative enterprise between Florida State University and the Department of Defense (DoD). In a national competition involving several hundred programs, DoD awarded a Themis Center-of-Excellence Grant of $1.87 Million to Florida State University. The University in 1967 provided five new faculty lines, space and facilities to launch the Institute on a firm footing. A substantial change to the Institute occurred in the late 1970's when the GFDI faculty lines were transferred to the participating departments. Now, there are about 20 Faculty Associates from 5 departments and 3 colleges, and roughly a dozen GFDI students.

The allocated space is in one location; 9,230 sq. ft. located in the basement of the Keen building. Space usage is as follows: 51% of the space is used as laboratory and its support facilities such as machine shop, electronics shop and photo lab; 25% is office space for staff, students, and associates; the library/seminar room and laboratory demonstration room accounts for about 7% and the rest (17%) is for general usage such as storage cabinets, counters and corridors. Some of the space in the basement underwent recent renovation, including the new laboratory demonstration lab, the front office staff space, and the seminar room.

FSU Coastal and Marine Laboratory

The FSU Coastal and Marine Laboratory (FSUCML) is located on the Gulf of Mexico about 45 miles southwest of the Main Campus. The mission of the FSUCML is to conduct innovative, interdisciplinary research focused on the coastal and marine ecosystems of the northeastern Gulf of Mexico, with a focus on solving the ecological problems faced by the region by providing the scientific underpinnings for informed policy decisions. It offers 16 research laboratories, classrooms, greenhouses, a dive locker, controlled environment rooms with seawater capabilities; seawater wet tables and recirculating seawater raceway, plus facilities for housing (dormitory style housing for up to 48 people),

administration, and maintenance. Under construction is a 65-ft research vessel (to be delivered in November 2012), and a fleet of smaller boats ranging in size from 13-ft to 26-ft. FSUCML also administers the Academic Diving Program, which supports science divers by supplying training (e.g., basic scientific diving, dry suit use, mixed-gas diving) and equipment (e.g., tanks, regulators, buoyancy compensators, dry suits, cameras) for faculty, staff, and students using scuba as a research tool.

EOAS faculty have considerable ties to FSUCML, and the EOAS Project is planned to provide on-campus office space for FSUCML faculty and students to allow easier collaboration when FSUCML scientists are in the Main Campus.

B. Project Description

This facility program describes a new facility which is expected to unite all program areas of a recently formed department at FSU: Earth Ocean and Atmospheric Sciences (EOAS). It is expected that this new facility will create an environment where all EOAS disciplines can interact in a collaborative effort to teach, conduct research and promote public service. The new facility shall provide space primarily for classroom/teaching lab, study, research lab, administrative and academic support functions. Furthermore it will serve as an educational and research model for other STEM related projects at FSU and possibly elsewhere as disciplines and the world change.

The construction of the new EOAS facility is the cornerstone of the University's ambitious long-range plans to redevelop and renovate its inventory of more than 1.2 million sq. ft. of science and research buildings that are, on average, more than 40 years old and collectively represent more than $100 Million in deferred maintenance costs.

The demonstrated facility need of the EOAS department is relatively large and requires a two phase development approach in order to reduce the required initial funding. This approach provides for a Phase One that meets the minimum programmatic and space requirements of the EOAS Department, uniting many core components that are currently spread out around the Main Campus and multiple buildings at the Southwest Campus. After considerable effort from the Department, to discern and identify the space need, the grand total space needed is 345,668 sq. ft. divided in the two phases. Phase One of the development plan is tabulated at 188,612 gross square feet (gsf) with Phase Two totaling 157,056 gsf.

The site selected is on the north side of the Main Campus. It is the geographic area containing the Gunter and Carraway buildings. EOAS program areas currently occupy the Carraway Building. The Gunter Building is home to the Department of Environmental Protection's Florida Geological Survey, has now been acquired by FSU and will be vacated this spring. Both of these existing buildings are considered substandard not only as buildings but for their intended research and teaching functions. Additionally, as a landlocked campus very few available building sites exist without demolishing structures.

C. Goals and Objectives

The building committee for the Earth Ocean and Atmospheric Science Building has identified the following goals for its new facility:

1. Create a research centered facility.

2. Bring detached units together. The building has the potential to be something extraordinary as it highlights the interdisciplinary nature and work of the groups within.

3. Create an environment to facilitate collaboration.

4. Create a physical layout that provides flexibility to accommodate future uncertainties.

5. Design an iconic facility honoring the important work that goes on inside. Make a gateway building worthy of this prominent building site.

6. Plan a facility capitalizing on economies of scale where possible.

7. Create innovative teaching spaces.

8. LEED initiatives should reinforce the concept of the building as a living laboratory for the technical and applied sciences within.

D. Project Delivery

At this point in time, the University contends that its interest is best served if the project is administered using the construction management (CM) project delivery system. This contention is based upon a series of factors, including the fact that this delivery system provides the best opportunity to complete the project in a timely manner. An accelerated design/construction schedule not only maximizes the effectiveness of the project funds, but also provides the best chance of having this project completed in time. Additionally, there are high expectations the preconstruction services provided by the CM will solve several constructability issues. As with all capital projects, the University reserves the right to reconsider the use of this delivery system if it is determined that an alternate system is more suitable or advantageous.

E. Design Professional's Scope of Work

Due to the size and the fact this facility will house environmental sciences programs, steps should be taken to ensure LEED related advanced technologies and concepts are thoroughly evaluated. While it may be appropriate for other projects to value engineer out advanced technologies, after evaluating cost versus benefit this project may choose to embrace these instead. The design professional shall be responsible for providing all

architectural and engineering services required for this project, including pursuit of LEED (Leadership in Energy and Environmental Design) certification. Any additional consulting services, which may be necessary, will be provided by the design professional.

The design professional's scope of work is well defined in the A/E agreement, which includes a complete list of requirements and responsibilities. The design professional shall be required to provide all services listed in the A/E contract for this project. The following is a brief summary of this anticipated scope of services.

1. Program Review

   The design professional shall be responsible for reviewing this facility program and becoming thoroughly familiar with its content. Following the review of this program and prior to the commencement of the design phase, the design professional shall be invited to meet with representatives of the building committee to discuss program requirements, project schedule, design constraints, and other considerations.

2. Site Analysis and Design

   The design professional shall be responsible for becoming thoroughly familiar with the specific project site and the remaining parts of campus around it. This understanding shall include a thorough appreciation and comprehension of the entire project site including, but not limited to, all natural features, vegetation, surrounding facilities, utility systems, vehicular/pedestrian/bicycle/transit circulation patterns, and so on. It is expected that the design professional shall be responsible for preparing and submitting a detailed site analysis of the existing conditions. Recommendations for mitigating any adverse effects created by this project are also expected.

   Prior to the commencement of the design phase, the design professional shall consult with the Facilities Department to review specific site requirements and issues.

3. Architectural Design

   The design professional shall be responsible for the preparation of all phases of architectural design, commencing with schematic design and continuing through the development and submittal of completed construction documents. As with the design of all major capital projects, the University desires to utilize the services of design professionals who are knowledgeable and proficient in the design and construction of similar facilities. At this time it does not appear that any extraordinary architectural consulting services are required in order to complete this

project; however, should they be deemed necessary, the design professional shall be responsible for obtaining such assistance.

Adherence to the current version of the Florida State University Design Guidelines and Specifications is expected for this project. (The Guidelines may be viewed at: Design Guidelines and Specifications http://www.facilities.fsu.edu/FDC/Guidelines.php). Any variance from these guidelines must be approved by the Facilities Department.

4. Engineering Design

The design professional shall be responsible for the preparation of all engineering design, commencing with schematic design and continuing through the development and submittal of completed construction documents. In general, engineering design shall include all civil, structural, mechanical, electrical, plumbing, and telecommunication/data disciplines necessary to complete the project. At this time it does not appear that any extraordinary engineering consulting services are required in order to complete this project; however, should they be deemed necessary the design professional shall be responsible for obtaining such assistance.

5. Cost Control

During the design of this project, it is essential that the University be kept informed as to estimates of probable construction costs. Accordingly, the design professional shall provide with each submittal an estimate of all construction costs. If it becomes evident that the cost of construction exceeds the available budget, then the design professional shall work with University to resolve all cost over-runs. The design professional is strongly encouraged to provide recommendations for cost savings whenever possible.

6. Project Delivery and Construction Administration

As mentioned earlier, the University proposes that this project be administered using the construction management delivery system. The University shall utilize its standard practice for the selection of the construction management firm. The design professional may be asked to assist the University in the selection of this firm.

The design professional shall provide all required construction administration and inspection services in accordance with all University and State requirements, including the following:

a) Assist in the solicitation and review of all Guaranteed Maximum Price (GMP) proposals and provide recommendations of award to the University.

b) Provide contract administrative services.

c) Provide inspection of work in progress to the extent that the design professional can certify the work is being accomplished in strict compliance with the contract documents. Services of a qualified roofing inspector may be employed.

d) Provide for the inspection of completed work and certify without qualification that the work has been completed in accordance with the contract documents.

e) Provide an acceptable construction schedule that minimizes the impact of related construction noises, disruptions, and inconveniences on adjacent properties. Work schedules shall be closely developed and coordinated with the Facilities Department.

7. Governmental Interaction

The recent Campus Development Agreement executed by the City of Tallahassee and the FSU Board of Trustees covers projects developed on the Main Campus. The Board of Trustees approved the update to the Campus Master Plan on June, 2008 and was amended on September 2009. The University executed an update of the development agreement with the City of Tallahassee on February 6, 2009. Since that time, the University amended the Campus Master Plan again in June, 2011. The Campus Development Agreement was amended in 2012. The amount of local inspection and jurisdiction is therefore expected to be minimal. The design professional shall be responsible for assisting the University in reporting the impacts of the project to the City of Tallahassee. Additionally, this project may require an environmental review by the Florida Department of Environmental Protection (FDEP), especially for compliance with State statutes and regulations involving the handling and treatment of stormwater during the construction process.

8. Building Code Administration

The University's Building Code Administration Section shall provide

plans review and construction inspection services for this project. An allowance has been provided for this purpose in the Project Budget Summary.

F. Construction Manager's Scope of Work

The construction manager's scope of work is well defined in the "Agreement Between Owner and Construction Manager" contract, which includes a complete list of requirements and responsibilities. The construction manager shall be required to provide all services listed in the construction management contract for this project. The following is a brief summary of this anticipated scope of services.

Generally speaking, the construction manager is required to provide pre-construction services that support the project team with regard to construction feasibility, cost and schedule. At an appropriate time, the University shall solicit from the construction manager a Guaranteed Maximum Price (GMP) proposal that shall be reviewed by the University and the design professional. If accepted by the University, the GMP shall become part of the construction management agreement. Upon issuance of a notice to proceed, the construction manager shall proceed to construct the project according to the approved construction documents.

1. Pre-Construction Services
   The following is a more detailed list of services that shall be provided by the construction manager during the construction phase.

   a) Program Review

      In much the same manner as the design professional, the construction manager shall be similarly responsible for reviewing this facilities program document and becoming thoroughly familiar with its content. Following the review of this program, the construction manager shall likewise be invited to meet with representatives of the Facilities Department and the Building Committee to discuss program requirements, project schedule, design constraints, and the like.

   b) Cost Estimating Services

      The construction manager shall provide continuing support to the project team during the design process confirming that the project can be constructed within the budget. This support includes a budget confirmation letter at the conceptual schematics phase and reports, including detailed cost estimates, at the advanced schematics phase, design development phase and the 50% construction documents phase.

Due to this project's schedule, it is expected that the construction manager shall be asked to submit a GMP proposal based upon a set of construction documents that is something less than 100% complete. The date of this solicitation shall be determined with input of the design professional and the construction manager.

The design team shall consider the option of packaging the work into multiple phases (e.g., site work, demolition, and new construction phases) if it is jointly determined that the interests of the project are better served through this approach.

c) Design Reviews

The construction manager shall advise the project team on issues relating to construction feasibility and cost effectiveness. These issues include, but are not limited to site use and improvements, construction staging, selection of materials, building systems, availability of materials, material procurement times, the relative feasibility of construction methods, cost factors for design and material alternatives, preliminary budgets and possible economies.

d) Project Schedule

The construction manager shall advise the project team on issues relating to construction feasibility and cost effectiveness. These issues include, but are not limited to site use and improvements, construction staging, selection of materials, building systems, availability of materials, material procurement times, the relative feasibility of construction methods, cost factors for design and material alternatives, preliminary budgets and possible cost saving measures.

e) Other Services

The construction management agreement lists a number of other services that shall be provided by the construction manager. These services include the separation of work into subcontracts, materials purchasing schedules, analysis of labor required, development of bidding packages, compliance with MBE requirements, bidder pre-qualifications and monthly construction team meetings.

2. Construction Services

The following is a more detailed list of services that shall be provided by the construction manager during the construction phase:

a) Construction

In accordance with University policy, the construction manager shall not self-perform work. The construction manger shall manage, schedule and coordinate the work of trade contractors, and coordinate them with the activities and responsibilities of the University and the design professional. The construction manager shall provide and maintain a competent, full-time staff to direct the work and assure quality control of the construction. The composition of this staff shall be consistent with that presented at the oral interview phase of the selection process. The University shall approve all changes in the staffing of the construction management team.

The construction manager shall conduct on-going reviews of the adequacy of trade contractor's personnel, equipment and materials and act promptly when these are found to be inadequate. Furthermore the construction manager shall provide cost control reports that revise and refine the approved construction budget. The University shall be promptly notified of any deviation between actual and budgeted costs.

The construction manger shall initiate, maintain and supervise effective safety programs in accordance with OSHA requirements. In addition, the construction manager shall conduct weekly progress meetings with the construction team to review and coordinate progress. In order to ensure a safe jobsite, the construction manager shall provide for adequate project security.

b) Construction Administration

The construction manager shall administer the construction phase in accordance with the requirements outlined in the University Conditions of the Contract. On-site organization, line of authority, paperwork procedures and procedures for monitoring progress of the work shall be established in accordance with the construction management agreement, University rules and regulations, and good construction practice. To report these activities, the construction manager shall provide monthly progress reports.

V. Academic Plan

A. Include a statement that the proposed academic program is consistent with the current adopted State University System of Florida Master Plan.

Construction of the Earth Ocean and Atmospheric Sciences (EOAS) Building is consistent with the State University System of Florida's Strategic Plan goal in that it will facilitate building world-class academic programs and research capacity. The current buildings occupied by EOAS units do not meet the size requirements of its growing undergraduate and graduate programs, the number of faculty, and the research projects at its research center, the Center for Ocean Atmosphere Prediction Studies (COAPS).
The EOAS Department is home to academic programs – Oceanography and Meteorology – that are considered to be in the top tier in the country by the *US News and World Repor*t of the best graduate schools in America. The undergraduate program in Meteorology has been noted as one of the top 10 programs at FSU. The new undergraduate program in Environmental Sciences has grown to over 250 students within its first two years. The Department in partnership with Geophysical Fluid Dynamics Institute (GFDI), COAPS and the FSU Coastal Marine Lab (FSUCML) offer a unique combination for teaching and research in the geosciences that is not available at any other SUS university. Combined, these units have the highest level of external research funding at FSU and there is a strong demand for its academic programs, with over 400 undergraduate and 150 graduate students already enrolled. Moving these units to one modern facility is expected to meet the space issues identified in recent reviews (see below) and will allow the faculty to build on the synergy of collocation to successfully address the many multidisciplinary, contemporary problems in the geosciences important to Florida and national and international communities.

B. Include the date and program numbers of all relevant academic program reviews. Explain how the proposed facilities program meets the recommendations of the most recent academic program review.

The Department of Earth, Ocean and Atmospheric Science was begun in 2010 by combining the Departments of Geological Science, Meteorology, and Oceanography into a single department of in order to achieve some economies of scale, facilitate the development of new curricula that can attract larger numbers of undergraduates and strengthen the position of the geosciences on the FSU campus. Each of the above mentioned departments and the Geophysical Fluid Dynamics Institute underwent a Quality Enhancement Review (QER) and a Graduate Policy Committee (GPC) Review in the 2008-2009 academic year. The Department's Environmental Science B.A. and B.S. degree programs were reviewed and approved by the University in 2009. The proposed EOAS Building addresses individual and collective recommendations from these reviews as discussed below.
In Dean Travis' collective response to the QERs ("ARTS & SCIENCES RESPONSE TO QERs 2008-2009"), particularly to a common issue raised by the GPC, he states:

The scientific infrastructure of several units is inadequate or borderline; the most obvious examples are the poor conditions of the buildings in which some units are housed (Oceanography, Physics, GFDl) but other examples include levels of scientific support staff, crowded graduate student offices, and aging equipment.
His recommendation in that document is as follows:
The College will work with the University to advance the construction of a new building for Physics and a single new facility for the new department of earth and atmospheric sciences and the GFDI…..The College will work with units to replace aging equipment through a combination of College funds and the required matching funding of external awards for larger scale upgrading of equipment and facilities.

Some of the more descriptive QER reviewer comments are as follows:

1. **Oceanography Reviewer – Dr. Marcia McNutt, Monterey Bay Aquarium Research Institute**
   The department is currently in danger of losing ground because of dilapidated facilities and a shrinking faculty count….In turn, the university must find a better building for the department and help rebuild the faculty size.

   What is truly amazing is that a department of such excellence is found amid the squalor of a building in such sorry state that it should have been replaced at least a decade ago.

2. **Meteorology Reviewer—Dr. Stephen Rutledge, Colorado State University**
   Physical facilities were found to be excellent for classroom instruction, but less than desirable in terms of space for instrument development, instrument storage, etc. The space provided for graduate and teaching assistants is not uniformly of high quality. Some of the faculty offices are inadequate as well.

3. **GFDI Reviewer - Chris Garrett, University of Victoria**
   Mention must be made of the location of the GFDI. The lack of natural light makes it unsuitable for day-long use, so the space should be reserved for things like the laboratory, machine shop, meeting rooms, and computer rooms. In particular, graduate student offices need to be relocated above ground.

4. **Specific recommendations from the Graduate Policy Committee include:**

   Geological Science
   The subcommittee recommends that, to the extent that it is consistent with the mission and priorities of the College of Arts and Sciences and the University, increased technical support be sought for (I) computer and IT support and (2) instrument maintenance and repair, particularly for the sophisticated mass spectrometers in the Geochemistry group at the NHMFL.

The subcommittee recommends that the department request, from EH&S and Facilities, a thorough evaluation of the building's air-handling system to assure safe operation of the chemical fume hoods and to eliminate mold and mildew.

GFDI
To the extent that it is consistent with the mission and priorities of the College of Arts and Sciences and the University, it is recommended that the GFDI program should work with the other geosciences programs to be co-located.

Meteorology
To the extent that it is consistent with the mission and priorities of the College of Arts and Sciences and the University, it is recommended that the department work with the college to find adequate space for its needs, including space for building equipment and for undergraduate laboratories.

Oceanography
To the extent that it is consistent with the mission and priorities of the College of Arts & Sciences and University, it is recommended that priority be given to space needs of the Department of Oceanography and the upkeep of the current space.

In summary, it is abundantly clear that the proposed new EOAS Building meets the recommendations of the most recent academic program reviews.

C. List the recommendations of the review consultant.

The only recommendations available at this time are listed above in item ‘B’.

D. If the proposed academic program is inconsistent with the current adopted SUS Master Plan explain how the program meets the recommendations of the review consultant or justify any inconsistency.

Construction of the EOAS Building is consistent with the State University System Master Plan.

VI. Space Needs Assessment

A. Describe the space needs in terms of present or projected deficiencies and the proposed solution, as well as alternative solutions that were considered, such as rescheduling of classes, remodeling of existing space, jointly using facilities on or off campus, and leasing of space.

This proposed project is a demonstration of Florida State University's commitment of creating a campus environment that is conducive to performing superior teaching, research and creative activities. In recognition of the need to develop more efficient operations, the University merged three separate departments – Geology, Oceanography, and Meteorology – to form a new department called the Earth Ocean and Atmospheric Sciences (EOAS).

For years, these three departments operated in isolation from one another; a condition that makes their current need to operate in a cohesive and collaborative manner very difficult. Compounding this problem is the fact that the buildings, in which they currently operate, specifically the Love, Rogers, and Carraway Buildings, are old, out-dated, and plagued by building envelope and building system issues. The EOAS project is the cornerstone of the University's ambitious long-range plans to redevelop and renovate its inventory of more than 1.2 million square foot of science and research buildings.

B. If a new facility is proposed, provide reasons why other alternatives were not chosen and why a new facility is the best solution.

None of the on-campus buildings currently being used are large enough or have the appropriate laboratories or classrooms necessary for the range of EOAS research and teaching activities. Love, Rogers, and Carraway Buildings mentioned above were designed for a teaching and research environment that is far less robust than that which is needed today. The construction of the EOAS project is the cornerstone of the University's ambitious long-range plans to redevelop and renovate its inventory of more than 1.2 million square foot of science and research buildings that are, on average, more than 40 years old and collectively represent more than $100 million in deferred maintenance costs. Because of the University's stringent construction standards, the new EOAS building will realize a reduction of overall utility and maintenance costs.

C. Provide quantitative analysis indicating how the proposed amounts and types of space were arrived at using requirements of programs to be housed.

The spaces were sized according to the 2007 version of the State Requirements for Educational Facilities and specific input from the EOAS building committee. The types of spaces were determined by needs expressed by the College.

D. Describe any difference between the project and survey recommendations for the project.

EOAS was not included in the last completed educational plant survey. The University is currently in the midst of conducting a new survey in which EOAS will be addressed. It is estimated that survey recommendations will be complete by April 2013.

VII. Consistency with Adopted Campus Master Plan and Associated Campus Development Agreement

Preface:

On June 13, 2008, the Florida State University Board of Trustees adopted the University's current Campus Master Plan. It was subsequently amended, by direction of the Trustees, in September 2009 and then again in June 2011. The process leading up to this adoption validated a previous series of long range planning goals that include provisions for land expansion, future facility development, major vehicular and pedestrian circulation improvements, and expansion of the University's central utility/infrastructure systems, just to name a few.

The amendments in 2009 and 2011 on the other hand are considered to be "minor" in terms of their scope and intent; both were attempts to incorporate recently developed concepts into the Plan so that certain projects could proceed. Accordingly, the depth of analysis that traditionally accompanies the inclusion of a project into the master plan was absent or, at best, incomplete. As a result, there remains a sufficient amount of work left to do to more fully appreciate and understand the impacts of a project, such as the Earth Ocean and Atmospheric Sciences (EOAS) Building, on its proposed site. That is not to suggest, however, that their inclusion in the Master Plan is incongruous or entirely out of place. Instead, the evolution of the design for the EOAS Building will smooth out some of the inevitable rough edges that were known at the time the amendment was adopted.

The more significant update of the Campus Master Plan that was adopted in 2008 was anything but minor. It was the first full update of the Master Plan completed and adopted in a number of years. In it, the University proposed some type of development on the site of the Gunter Building; up until then, the Gunter Building was merely envisioned as a future University acquisition. This more significant departure in thinking anticipated the evolution of the EOAS Building and necessarily removed the footprint of the Gunter Building and replaced it with a more impressively sized, but still uncertain building generally dedicated to the Earth Sciences. Since that time, the completion of a planning study and this facility program has begun to put a more polished finish on the University's understanding of the building, though there remains a considerable amount of planning and design work to be done.

Last year, the University executed a lease agreement with the Department of Management Services that will eventually result in the exodus of the Florida Geological Survey's occupants and terminate their use of the Gunter Building. The details of this lease are not entirely relevant to the design of the EOAS Building. The salient point of even mentioning this is the fact that the property on which the Gunter Building sits and the building itself will be under the control of Florida State University before the construction of the EOAS project begins, if not much sooner.

Last summer, the University completed a programming and planning study for the EOAS project. It is upon this study that this facility program is based. Essentially, this study proposed that the needs for the EOAS Department be broken into two phases, each of which would be built on the Gunter Building site and portions of other building footprints, such as the Carraway Building and the Antarctic Marine Geology Research Facility (AMGRF). The significance of this proposed site should not be overlooked. As a major entrance into the Main Campus, the Gunter Building site is likely one of the most visible sites at Florida State and its use as a platform for the construction of a major academic building is as much symbolic as it is a design challenge. This potential is described in greater detail later in this element but, for now, let's dispense of some housekeeping matters.

Housekeeping Items:

Following master planning guidelines originally promulgated by the former Board of Regents, the University has incorporated several key elements in the Campus Master Plan that speak to the need to provide suitable facilities that will enable Florida State University to better fulfill its mission. These elements contain specific descriptive goal, objective, and policy language that speaks to the intent of this project.

The adopted Campus Master Plan considers projects such as the development of the EOAS Building to be supportive of two of the University's core operations which, of course, are academics and research. Accordingly, it has been categorized as an academic project, which is generally discussed in "Element 5 Academic Facilities" in the first volume of the adopted Plan. In this particular element, one would expect to find references to goals, objectives and policies that describe how academic facilities will be developed to support the University's larger, broader academic goals.

This project has also been included in "Element 14 Capital Improvements". Its inclusion in this section signifies that it was considered in the negotiations that were conducted between the City of Tallahassee and the University in preparation for the execution of the current Campus Development Agreement. Therefore, all concurrency costs associated with this project have been accounted for.

Beyond the minutia of the perfunctory project references in the master plan, there are a number of real-life planning issues that this project must address that were not fully vetted in the process that led to the adoption of the master plan. The following is a brief description of the more obvious, significant issues.

A. Prominence of the Site:

Since its inception, the north central portion of the Main Campus was always envisioned as a likely location for the siting of the EOAS Building. Why? Because that is where the majority of the major department components – Oceanography, Meteorology and Geology – are currently located. While it is not entirely out of the question to consider

an alternative site, the reality associated with replacing major departmental assets makes such thinking unrealistic. On the other hand, why would one want to consider an alternative site if the Gunter site is so prominent? After all, this site sits at the door of one of the major entrances into the Main Campus. As mentioned before, there is probably not a more attractive site on which to construct a building that makes such a bold statement. To the tens of thousands of persons who pass this site each day, the EOAS Building will personify the University's long-standing commitment to its academic pedigree.

B. Campus Gateway

One of the original concepts proposed in the first edition of the Campus Master Plan, produced approximately 25 years ago, was the notion of redefining and accentuating the primary entrances to the Main Campus. While nothing will ever be done by the University to minimize the importance of the historical College Avenue promenade that leads to the Westcott Building, the reality is that the Main Campus remains porous with multiple entrances and exits. In more recent years, College Avenue, North Woodward Avenue, South Woodward Avenue, and West Call Street have all been nominated for special purpose or main entrance gateways that lead into the Main Campus. The University years ago even went so far as attempting to recreate a wrought iron arch over North Woodward Avenue, similar to the one that welcomes people in front of the Westcott Building. Unfortunately, the efforts to complete that archway were stymied by budget issues, though the columns that would support the arch were constructed. Even today, signs on those columns designate Woodward Avenue as a gateway entrance.

Those columns will likely be demolished as part of the site work that will be done in conjunction with the EOAS project and the adjoining project to expand the student union. However, the importance of maintaining and celebrating North Woodward Avenue as a major campus entrance is as great as ever. Instead of columns and wrought iron arches, it is envisioned the EOAS Building and the student union expansion will serve in a similar manner, beckoning and welcoming motorists, bicyclists, and especially pedestrians into the campus.

For this reason, the design of the EOAS Building should look outward from the prominent site and recognize the opportunity of promoting campus hospitality.

C. Designing in a Vacuum

During the past 10 years, new construction and renovation activity on the Main Campus was at its highest levels ever. However, in more recent years, this activity has dwindled considerably due, in large part, to the stagnation of the State and University's economy. Though the sounds of hammers and saws have been quieted, the "noise" created by planning studies and activities has been deafening. The last two to three years have provided fertile opportunities for the administration, departments, and faculty/staff to take stock of their situations and study and plan to meet future construction and renovation

needs. The design professional and the construction manager shall become thoroughly familiar with and pay particular attention to the evolution of two significant projects: the aforementioned student union expansion and the plans to renovate the Dirac Science Library. More information about each of those projects can be found in documents maintained by the Facilities Planning and Space Management Section.

The design of the first project, the student union expansion, will begin shortly after the notice to proceed is issued to commence the design phase for the EOAS Building. In a nutshell, the student union will consist of four discrete phases and involve the phased demolition and re-construction of the Oglesby Student Union. In total, that project will eventually exceed 400,000 gross square feet of space, costing in excess of $125 million. In other words, it is a project equal in significance to the two phases of the EOAS project. There is little, if any, programmatic overlap between EOAS and the student union, but their adjacency to one another presents a number of issues and opportunities. For that reason, it is important the two projects communicate regularly with one another so that the "right hand" and the "left hand" know what each other is doing.

The renovation of the Dirac Science Library is important for these reasons as well as potential programmatic overlap. Though unfunded, the project to renovate Dirac would transform it from a book repository to a student learning center. As such, does a renovated Dirac have the potential to fill some of the spatial needs programmed so far in the EOAS project or, at a minimum, compliment them in some way? That is one of the questions that the design professional shall assist the Building Committee with during the advanced programming phase.

Because the Dirac project could lag for several years behind the EOAS project, it will be difficult to compare the design/construction overlap between the two projects. Therefore, it is imperative that the design of the EOAS project not interfere with the potential of the Dirac renovation. This would be most important in any site work or site utility planning.

Bottom line is this. The design professional and the construction manager shall be aware that there are at least these two major projects that could impact the EOAS project and vice versa. Therefore, everyone associated with this project should be cognizant of the evolving world around them.

D. How to Get There From Here?

Major capital projects are often called upon to fix problems that affect portions of campus located around their site; this project is no different. There are a number of transportation, access, and circulation issues that the EOAS project will touch upon and be called upon to fix. For instance, preliminary analysis suggests the need to transition from North Woodward Avenue to Academic Way will remain and yet it is very likely that the existing vehicular pathway between these two roadways, Antarctic Way, will be permanently removed by this project. Does the need for the transition go away as well?

Certainly not. Therefore, the design professional and the construction manager shall be responsible for providing this means of transition elsewhere on the site.

Keeping in mind the discussion from above about being aware of other neighboring projects, it is important to note a similar transition is currently provided on the east side of North Woodward Avenue on Territory Way. It is likely that the project to expand the student union will likewise create a need to replace Territory Way. This would be an ideal opportunity for both projects to communicate with one another on how these transitions will be achieved.

Another circulation issue involves pedestrian access. Simply put, the Gunter Building site is probably one of the most remote locations on this campus, at least from a pedestrian's point of view. The same can be said for bicycle or wheelchair access. Sure, pedestrians can find their way to the Gunter site, but the travel path is not intuitive, safe, convenient or attractive. Therefore, the design of the EOAS Building must take into careful consideration how the building is approached.

The next area of concern is service access. In its current configuration, access by service vehicles is likewise difficult. Again, this type of access must be planned for, especially when one realizes that service vehicles traveling to and from the EOAS Building will include 18-wheelers and other large format vehicles. In that instance, the path of travel must be planned for all the way back to major arterials since both ends of Academic Way present their own unique maneuvering challenges. In addition, the design professional shall take into account the low clearance offered by the bridge that spans Academic Way along North Woodward Avenue.

Though the Gunter Building site is prominent, it has a number of accessibility challenges. It is readily visible, yet not easy to access.

E. The Really, Really Big Picture

For years, the University has wrung its hands wondering what to do with the collection of science buildings located between North Woodward Avenue and Chieftan Way. It is hard to imagine how cutting-edge research and teaching activities can be accomplished in a collection of buildings whose average age is more than 40 years old and whose collective deferred maintenance needs exceed $110 million. The University and the State of Florida has long since achieved a maximum return on its original investment in these buildings, especially when one considers the fact that few of these buildings have benefitted from major renovations. Instead, corrective measures have been done in a piecemeal fashion. Why? Because there is no surge space or wiggle room in which to place departments or operations long enough to allow a building to be renovated. Instead, the University has made incremental improvements, where necessary and where possible. Likewise, the science area of campus is so congested that siting of future expansions or new buildings is very difficult to plan and very expensive to implement.

The development of the EOAS project begins to create a "beachhead" of sorts in addressing the very long range issue of what to do with this collection of buildings. For the first time, the University has the opportunity to move some of the academic pieces on the board and create plans for subsequent development and renovation activity in the science area of campus.

The design professional shall be aware of this unique opportunity and should help the University investigate methods of further maximizing this project objective. If necessary and possible, the design professional may be enlisted to assist with the planning for the next increment of science area redevelopment.

F. Other Master Planning / Project Design Concerns

There are a myriad of other concerns that fall somewhat in both the category of overall master planning and the specific design of the project. These include but are not limited to issues such as pedestrian/bicycle/transit access (some of which has been described above), sustainability (which likewise is mentioned elsewhere in this document), future building expansion, utility and infrastructure system improvements, and building massing, just to name a few. It is not the intent of this particular reference to drill down deeply into each. Instead, this item refers to how the design professional considers them. For instance, in the past, it has been customary for projects to consider their impacts only as far as the chained link fence boundaries that define them. On a campus as small as Florida State, the ripples that emanate from a project as large as EOAS are felt almost on every campus boundary. Therefore, the design professional shall look beyond the immediate boundaries of the EOAS project to see what impacts might be created. While this may seem self-evident and obvious, there are too many examples of major project development that failed to consider all of the "downstream" affects. That will not happen with the EOAS project.

VIII. Site Analysis

A. General

This site analysis section is taken from a study provided by a campus services consultant. The site for this project has been finally determined to be the parcels on which the Gunter and the Carraway Buildings are located. A larger area to the west of these parcels had been included in the consultant's study, namely the parcels where Carothers Hall, the Love Building, the Engineering Lab and Kemper Building are located. However through this study, the target final site for the project has been reduced to the above mentioned area.

This site is very prominent as it is not only centrally located on the FSU's Main Campus but is adjacent to one of the main entry points to the University. It is the parcel in the south-west quadrant of the intersection formed between West Tennessee Street/Academic Way and North Woodward Avenue. It comes with good access to diverse amenities and services. It is only a 10 to15 minute walk to any location within campus. The site is currently served by all primary utility ties available on campus. Future utility connections for any new facilities appear to be relatively straight forward. Utility capacity for the new facility will need to be verified with FSU Central Utilities and Engineering Services Group. The site's topography has a drop from north to south of 40 feet and pedestrian accessibility may be a challenge in some locations, requiring implementation of exterior accessible stairs and ramps. There are few significant trees on the site that will need to be taken into consideration. The site is subject to heavy vehicular, bicycle and pedestrian traffic along the eastern and southern borders with moderate levels exhibited throughout the site. See Exhibits 1-1, 1-2 and 1-3.

B. Project Site

1. Site Topography and Soil Conditions

The topography on the site ranges from 82-ft. above mean sea level (AMSL) on the southeast corner to 122-ft. (AMSL) along Academic Way on the northwest corner of the site. This 40-ft. differential slope will allow for stepped building approaches and opens up the possibility to locate the service areas below grade. Antarctic Way, Gunter, and Love are most affected by the topography as pedestrians and cars have to endure a brief yet, steep climb or descent from these locations. Along Academic Way, an underpass runs under North Woodward Avenue to accommodate campus traffic. Pedestrian access around the site is through a series of stairs and ramps. Carothers and Carraway are easily accessible through the promenade south of their locations. See Exhibit 2-1.

The soil at this proposed site is believed to have poor bearing capacity due to pipe clay deposits encountered on the most recent construction projects undertaken in the general area. Both the Woodward Garage and the

National Weather Service Expansion to the Love Building have either auger cast pilings or large strip footings acting as grade beams to address expansive pipe clay deposits found underneath the buildings foundations. It is believed that a similar approach will be required for any new construction undertaken on this proposed site.

2. Site Water Table, Flood Hazard and Storm Water Drainage Requirements

According to the Tallahassee-Leon GIS Natural Features Map (I-Maps) the proposed site is not in a Federal Emergency Management Agency (FEMA) Floodway Special Flood Hazard Area (100-Year).

There are separate stormwater systems in this site. The system in the northeast portion of the site, which connects Academic Way, and a portion of North Woodward Avenue through 15-inch reinforced concrete pipes to a larger off-site system. There is a second system that collects the stormwater from Gunter parking lot and building through a 12-inch and 8-inch, converging into one 10-inch pipe, it runs along Antarctic Way, then widens to a 15-inch pipe. This 15-inch pipe flows off site. The third abbreviated system addresses the stormwater collected from Carraway. On the north side of the Carraway Building there is a 12-inch trench drain which conveys to an 8-inch reinforced concrete pipe that wraps around the east side of the building and leads to the opposite side of the promenade walk north of the Parking Garage. See Exhibit 2-2.

3. Transit, Parking, Vehicular, Bicycle, and Pedestrian Circulation

Mass transit lines currently serve this area well. The corner of Antarctic Way and Academic Way has the service of all 8 of the daytime Seminole Express routes. Tennessee Street near Woodward has bus stops on each side of the street served by 2 StarMetro bus routes (Azalea and Canopy). Although these bus stops are physically close, accessing Tennessee Street as a pedestrian to and from this site is somewhat cumbersome. Heading south, towards the University, on the north side of the site one needs to cross Academic Way and traverse exterior steps and on the east side one needs to traverse a moderately steep incline. Please read Section 1. Site Topography and Soil Conditions, above for a description on how topography affects pedestrian movement in the site. From the north part of the site, there are concrete sidewalks that connect all the buildings in the area by means of ramps and steps.

A few hundred feet south of the site, to the south of the Parking Garage is a primary pedestrian route known as the Call Street Pedestrian Way. This

east-west walkway traverses the entire campus. Rivaling this walkway is a parallel east-west walkway on the south side of the site, between the Carraway Building and the Parking Garage this walkway can be viewed as secondary pedestrian circulation. As bicycles regularly use both of these walkways, they are considered mixed use pathways. This secondary pedestrian corridor connects many of the science buildings on that area of campus and after descending steps west of the Keen Building; it extends all the way to the Stone Building. At the EOAS site, this walkway connects EOAS and the Bookstore/SunTrust/FSUcardCenter and extends to the east through the Oglesby Student Union and merges with the Call St. Pedestrian Way at the Rovetta Building. There are numerous tertiary walkways along its path. One worth mentioning is a north-south route that is east of Carothers and the Love Buildings. It extends from the Call St. Pedestrian Way near the Rogers/OSB Building to Academic Way.

As expected, vehicular parking is difficult at the site. There is on-street parking for Faculty/Staff on Academic Way and a parking lot between Love and Carothers Building. . The Gunter Building users have on-site parking to the east and south of the building. Student parking is available at the Woodward Parking Garage, but the supply never keeps up with demand.

There are three banks of bicycle parking racks on the south side of the Carraway Building.

4. Site Vegetation

The site around the existing buildings contains different types of trees and vegetation. There are various palm trees very close to the south side of the Carraway Building and around the Gunter Building. Along the promenade to the South of the Carraway Building there two magnolia trees and a few elm trees along the way. To the west side of the site along the path between the Carothers and Love Buildings and the Carraway and Gunter Buildings, there are two live oak trees and two laurel oak trees. To the north of the site between West Tennessee Street and Academic Way, there are two live oak trees. There are also miscellaneous palmettos, shrubs and ground cover. See Exhibit 2-3

5. Archaeological History

University documentation indicates that there are no archaeological sites within the immediate confines of the project site. Per the University's "Professional Services Guide," the design professional shall be responsible for petitioning, on behalf of the University, the Florida Department of State, and Division of Historical Resources for an

assessment of the proposed site to verify this determination of historical or cultural resources.

6. Location of Exist. Utilities & Proximity of Utilities to Project Site

The design professional shall be responsible for examining the condition and capacity of the various utility systems that will serve this facility and make recommendations for all necessary improvements to these systems. Generally speaking, these recommendations shall focus on the two primary areas of concern; first, the condition of the existing distribution system, and second, the capacity of the distribution system and its ability to serve the project. In addition, the design professional shall be responsible for acquiring and verifying the locations and capacity of all University and City maintained utilities which serve the project site.

University utility documentation is included in the Appendix of this Facility Program. This information is included for reference purposes only. The design professional shall ultimately be responsible for identifying the location of all utility systems that serve the project.

a) Steam

There are 3 steam lines that connect to a common steam tunnel on the site. The first steam line is a 4-inch line with a 2-inch return that starts on the southeast corner of the site and travels north parallel to North Woodward Avenue towards Antarctic Way where it turns west to connect to a manhole just north of Carraway Building. Here the line connects to Carraway through a 4-inchline with a 1.5-inch return. From this manhole #3140 the steam line continues north to connect to the east side of Gunter Building through a 4-inch line and 2-inch return. See Exhibit 3-1.

b) Potable Water

The site is served by the primary potable water line from North Woodward Avenue, a 16-inch pipe. The Gunter Building is served directly from this main line through a 6-inch pipe. It is further reduced to a 4-inch line as it approaches the building, the line forks into a 2.5-inch fire and a 2-inch domestic line. The Carraway Building is also served directly from the main 16-inch pipe through a 4-inch line that splits into two 4-inch lines as it enters the building. The buildings to the west of the site are served by an 8-inch secondary line splitting from the main at the intersection of

Academic Way and North Woodward Ave. The 8-inch potable line runs parallel to Academic Way and splits at two points to the south towards the proposed site at Antarctic Way. At Antarctic Way, this tertiary line reduces to a 6-inch pipe that feeds the eastern portion of Love Building. In addition, a tertiary branch follows the walkways that lead to the south part of the Carothers Building where the line splits into a 2-inch and 4-inch connections to the building. See Exhibit 3-2.

c) Chilled Water

The proposed site is served by two chilled water lines. The first lines are two 6-inch pipes that serve the Gunter and Carraway Buildings. At the northwest corner of the Carraway Building, the chilled water line splits two 4-inch lines that lead to Carraway, and two 3-inch lines that cross over the street and parking lot to the Gunter Building. See Exhibit 3-3.

d) Sanitary Sewer

The sanitary sewer system that runs through the site serves the Carraway Building, the Gunter Building and the western half of the Love Building. The sanitary sewers that serve Love and Gunter converge at manhole MH 433 and flow south to manhole MH 431 where it meets up with the line that serves the Carraway Building. This line branches out towards the south to serve the Parking Garage Building. See Exhibit 3-4.

e) Natural Gas

The Gunter Building and the Carraway Building currently do not have natural gas service. There is a High Pressure 6-inch line that runs along North Woodward Avenue along the east side of the site. See Exhibit 3-5.

f) Power

Both buildings in the site are served by a line that comes off W57. This line runs under the Carraway Building, more specifically under the Antarctic Marine Geology Research Facility (AMGRF). This line also serves the Gunter Building. See Exhibit 3-6.

g) Telecommunications

Telecommunication services to the present site originate from the Dirac Science Library. Services extend to this area of campus via a system of underground duct-bank and manholes running parallel to the southern facades of Carraway and Carothers buildings. The system extends north on both the east and west sides of the site. At manhole C8-9, the duct-bank extends north to the proposed building site and is the feeder duct to the existing facility. At manhole C8-8, the duct-bank extends north to manhole C8-8A where feeder ducts connect radially to Love and Carothers. The existing duct system in this area of campus is outdated and inadequate and will not support future construction expansion without first being cleaned up. Consideration should be given by the design professional to upgrade portions of the current infrastructure to facilitate the needs of the proposed building along with future expansions that might be anticipated. Blue Lights No. W461 is in the north west corner of the site. Blue Lights Nos. W462, W463, W464 and W465 are along the south part of the Carraway Building. See Exhibit 3-7.

6. Architectural significance of any structure on site and the proximity and significance of structures on adjacent sites which will have an impact on the project.

There are no structures on site that can be identified as architecturally significant. Southwest of the site is the Dirac Science Library which could be considered significant with its mission to serve all the science community. This 1988 building is named after a faculty member, physicist and 1933 Nobel Prize winner Paul Dirac. This four storey facility has a horizontal emphasis with it alternating ribbons of dark glass and brick panels. FSU Libraries is looking at rejuvenating this library with a series of building improvements and changes in the distribution of its collections. Because the way the building is oriented, remodeling the front entrance on its west side is one of the building improvements being considered.

7. Any unusual site condition which may impact the cost or design of the project.

The physical site realizes significant topographic changes which alone could create challenges for design and construction of this project. The AMGRF is expected to be operational during construction of EOAS; the new facility will connect to it, part of the Carraway Building (Annex). In

addition, immediately surrounding the site is a significant concentration of buildings as well as vehicular and pedestrian traffic. During construction it is likely there may only be one way to access the site with vehicles and that would be Academic Way from the west. Accessing Academic Way from the east could be problematic for large trucks due to the limited overhead clearance of the Woodward Avenue tunnel. The construction lay-down area has not yet been identified and may be difficult to find due to the issues mentioned above.

Across Woodward Avenue another construction project may be concurrent with this one: the new Oglesby Student Union. This project will be constructed in phases. Conflicts could occur depending upon the construction window and where on the Oglesby Union the early phases of construction will commence.

8. Direction of prevailing winds.

In the summer, the prevailing winds are from the south-southeast. In the winter, the prevailing winds are from the north and the south. It is not expected that prevailing winds shall have a significant impact on the design of this facility. The design professional shall, however, be sensitive to downstream effects of any mechanical exhaust, which may be vented from this facility.

IX. Program Area

As mentioned earlier the overall plan on the Earth Ocean and Atmospheric Sciences (EOAS) Facility is divided into two phases. This facility program addresses primarily Phase I of this project, while introducing some aspects of Phase II.

The EOAS units and programs selected for the first phase of the project are those with the highest demonstrated need. Space for incremental growth is included in Phase I so as not to hamper the evolution of the department leading to the final build out. The programming process for identifying the specific spaces included in Phase I began with identifying specific persons to be housed in the new facility based on current faculty and staff positions plus some anticipation of changes and/or additions that might occur over the coming years. Office space provided is based on current and projected personnel. Classrooms required for building use are based on current classroom scheduling for each program area and then analyzed based on a classroom utilization model. Similarly research space and research support functions to be accommodated are identified numerically based on current need. Each of these space types have been calculated using an agreed upon growth factor.

There are several key premises or directions that drove the specific development of the program:

- The program allows growth of 1% per year over the next 10 years.
- The Center for Ocean-Atmospheric Prediction Studies (COAPS) is treated as central to the EOAS department operations and goals.
- EOAS Institute space is to be created as a centralized, shared resource for visiting faculty and guests, including Coastal Marine Lab faculty and students.
- Office space types are standardized for typical office needs.
- Geochemistry will remain in its current location in the National High Magnetic Field Laboratory (NHMFL) during Phase I given the cost of moving delicate equipment and established specialized research laboratories (metal-free labs and clean rooms).
- Given the cost of moving a number of specialized and highly calibrated large pieces of research equipment the Geophysical Fluid Dynamics Institute (GFDI) will remain in its current location in the Keen Building during Phase One given the cost of moving a number of specialized and highly calibrated large pieces of research equipment.
- The National Weather Service will remain in operation in its current location on the fourth floor of the Love Building during Phase I given the cost of moving and the well functioning spatial arrangement that the organization currently enjoys. They are relocated in Phase II of the EOAS proposed facility.
- The Antarctic Marine Geology Research Facility (AMGRF) will remain in its current location during Phase I due to the sensitive nature of the stored material. The program area will be expanded by appending to the existing facility during

Phase II.

- New Science, Technology, Engineering and Mathematics (STEM) facilities to accommodate future classroom and teaching lab space.
- Local servers for data storage as opposed to utilizing central university network storage in conjunction with COAPS operation and data management for daily monitoring and research data.
- Model Research around current practices.
- Assure that the net to gross square foot conversion ratio used in programming is appropriate for the space types included. Laboratories and research space require significant infrastructure and support space that drives the net to gross square foot factor higher than those found in less specialized facilities.
- Serve the existing need of smaller classes in "right-sized" rooms.
- Larger classes will be held outside the proposed EOAS facility in the University-wide available classroom spaces.
- Growth in faculty will match the overall University growth or be slightly higher.
- Parking demand will be handled holistically by the University to serve more than any one complex of buildings.
- An on-site loading dock for shipping containers and access to shop/work space is included; however, on-site crate, large vehicle and equipment storage is not.
-

A. **Specific Program Requirements**

This section identifies the traditional requirements for the various spaces and rooms in EOAS Bldg., including an enumeration of the number of similar spaces, their size, and where not obvious, their environmental requirements.

1. Space Summary

The Space Summary that is presented in the Appendix lists the spaces that are to be included in the design of this project. This summary quantitatively describes the spatial needs of the project, as they are presently known. These figures are presented and totaled in tabular form. Included in this summary is a breakdown of the total square footage by space type (Room Use Code). The Room Use Code information is presented to assist in documenting this project's impact on the University's overall space inventory. It should be noted that this project was not presented for approval during the University's most recent Educational Plant Survey (Currently, the University is in the midst of conducting a new survey in which EOAS is addressed). Where appropriate, square footages have been based upon space and occupant design criteria found in the 2007 Space Requirements for Educational Facilities (SREF) standards.

Again, the figures contained in this summary are not based upon a completed design. As with most types of program information, the design professional shall consider the delineation of space within the building as a framework for design.

The Building Committee must approve any deviation from this baseline program information, such as room sizes.

2. "Room or Space" Data Sheets

The Space Summary represents only a partial image of this project's spatial needs. While it is critical to know the number, size and types of space, it is equally important to understand the environmental and relationship needs of the spaces and their organization. To assist in the presentation of this information a series of Space Data Sheets have been included in the Appendix of this document. These forms describe the individual spaces in terms of the activities that occur within them and their relationship to other spaces. Additionally, these forms also prescribe environmental needs such as acoustic, indoor climate, architectural finishes, communications, lighting, and accessibility.

The design professional is expected to become thoroughly familiar with the spatial information for this project. Prior to the commencement of the design phase, the design professional shall have the opportunity to meet with representatives of the Facilities Department and the Building Committee to answer any questions and discuss any apparent revisions.

B. Design Issues and Opportunities

In addition to the space needs mentioned above, there are several major design issues that must be addressed in this project. These issues are briefly explained below. It is expected that the design professional shall take into serious consideration each of these issues and assist in the development and incorporation of solutions into the project design.

1. It's Users: EOAS Program Areas, Centers, Institutes and other affiliated units.

a. Geological Sciences including Antarctic Marine Geology Research Facility (AMGRF)

As mentioned in the Introduction Chapter of this facility program, Geological Sciences is split between two different locations in town, the Main Campus and the National High Frequency Magnetic Laboratory (NHFML) where Geochemistry resides. While it would be desirable to have Geochemistry on the Main Campus as part of Phase I, the cost in terms of resources and staffing would be too great, therefore this split is expected to continue as Geochemistry. It is not programmed into Phase I but rather Phase II of this project. Herein lays a challenge of how to keep the Geology program area together while operating at two locations. There will be a need for space within Phase I of this project for faculty traveling back and forth. How Geochemistry will be integrated back into

the facility during Phase II is something to be considered. Conflicts between sawing equipment and no vibration instrumentation/equipment should be examined as each request ground floor locations. The Antarctic Research Facility (AMRGF) expansion is shown in Phase II, but this presents a couple of problems. First, as mentioned in introduction of this facility program, the repository is running out of space as collections are added. Second, it is likely a building on this site will come close to the existing facility making it sensible to provide for the addition, even if it only is a shell-space for now (Phase I). Of course, if this idea is considered, another problem is presented, how to pay for it within the existing budget and what program area suffers because of this change. There is interest among the EOAS disciplines in using the AMGRF more as a teaching aid, but unfortunately its current crowded condition does not lend itself to this.

b. Meteorology

While the perception may be that Meteorology has most of its academic emphasis on research, the reality is student hours generate more dollars than research in this program area. Currently there are 200-300 undergraduate and 90 graduate students. Consequently this program area is likely to see more foot traffic related to the number of students coming back and forth to classes and labs than other program areas associated with this new facility. Unlike the other program areas in this new facility, Meteorology provides lab space to all its undergraduate students. Meteorology instructors typically deal with groups of 6+ students and are proponents of providing offices ample enough to accommodate meeting these with this number of students.

c. Oceanography

While multiple equipment labs may be shared between the different Oceanography sub-disciplines, many of the labs have unique characteristics, requirements and issues. There is a need for rooftop sampling. Additionally the Biological, Chemical and Physical Oceanography faculty appreciate teaching aids and classroom arrangements that are unique to their sub-disciplines.

Basement/warehouse/hangar space, perhaps double height is desired for staging trips. A gantry crane and fork lift can be utilized to lift and store containers removed from trucks. Showers in this area are needed. Outside storage surrounded by opaque fencing could be utilized.

Desired office arrangements vary between observational and theoretical physical oceanographers. Most research faculty prefer a suite arrangement near labs, while theoretical faculty prefer an individual office not associated with a suite. Common spaces and opportunities for impromptu meetings should be included. Oceanography feels this opportunity is being missed in the Rogers Building where there is a lot of vertical separation.

d. Center for Atmosphere and Prediction Studies (COAPS)

COAPS is seen as the Center which will unite the varied program area members of this facility, Oceanography and Meteorology members to a greater extent and Geology to a lesser. Its current location remote to the Main Campus understandably hampers this ability. As COAPS moves back to the Main Campus into the new EOAS facility economies will be realized in terms of space allocated, individual time and transportation costs. Currently researchers, staff, faculty and students associated with the program maintain two offices: One at the Johnson Building and one on the Main Campus (Generally Love or Rogers Bldgs). COAPS currently groups grad students with faculty. The COAPS Computer Lab is typically used after hours on a regular basis.

e. Geophysical Fluid Dynamics Institute (GFDI)

It is preferable to have the teaching component of GFDI included in the first phase of program, but however desirable it may be, moving the research component comes at too high of a cost. Therefore GFDI is not expected to move from its current location, until Phase II of this project. Faculty, researchers and students from the EOAS disciplines will continue to utilize the facility at the basement of the Keen Building until the completion of Phase II state-of-the art facilities. Economies of space may be realized at that time involving duplication of offices, while upgrading research equipment (such as doubling the flume size) will require more space. Operationally, the GFDI machine shop should not be merged with the EOAS one. One is needed 24/7 for student PI research while the other is daytime employee staffed.

f. FSU Coastal Marine Laboratory (FSUCML)

The Coastal Marine Lab (FSUCML) is permanently located at St. Theresa. Their space requirements on the Main Campus in Phase I of the new EOAS facility will be limited to visiting offices. As this is not their primary office it is expected to be smaller than the faculty standard. Programmatically FSUCML is linked closest to Oceanography and Biochemistry.

g. Florida Geological Survey (FGS)

The FGS is part of the State of Florida Agency: Department of Environmental Protection (DEP). FGS has been located in the Gunter Building on the Main Campus for decades employing a full-time staff as well as part-time FSU students. There is a mutual working relationship between FGS and EOAS program areas. FGS intends to relocate this year off-campus to the Commonwealth Building. This group appears in neither Phase I nor Phase II of this facility program, however, FGS could be part of the EOAS facility at a future date if funds are provided for the construction and move.

h. National Weather Service (NWS)

The National Weather Service space appears in Phase II of this facility program. Nearly a decade ago the Tallahassee office of this federal program moved into an addition to the Love Building on the Main Campus; the NWS space is leased by the State of Florida. It will literally take an act of Congress to move this facility. Shuttered windows, double and triple redundancy and generator back-up protect this facility in the event of storms, hurricanes or unforeseen problems. NWS requires being on the top floor to have control over things above it as well as to functionally provide atmospheric observations and exercises such as the daily balloon launch. As a federal program everything must be separate from FSU and there is higher restricted security.

Traditionally local NWS offices are located near airports, however, it made sense to make an exception and collocate with the Meteorology Department on the FSU Main Campus. This enabled the NWS and Meteorology Department to have a synergistic relationship. Additionally NWS has a strong relationship with COAPS, University Emergency Operations and the State of Florida Emergency Operations Center. This is expected to continue.

This facility operates 24 hours a day. Full staff with all shifts is 24 persons. Minimum staffing levels 24/7 is 2 persons. Emergency conditions staff on 12 hour shifts is 6-7 persons. There are approximately 25 school groups and other tours visiting the facility annually.

i. Administration and Support

EOAS has approximately 250 employees. As mentioned earlier in this facility program EOAS is comprised of what were formerly separate departments. Each had had its own administration, support, advisers I.T. staff etc. Bringing them all together in one facility will certainly make the operation more efficient. Issues of mail distribution and storage will be consolidated in the new facility. Academic advisers while programmatically under administration shall have a separate area distinct work and waiting area. Grants should be embedded separately within each program area.

2. Under One Roof

This project endeavors to consolidate currently detached program areas and place them within one contiguous facility. Complicating this task is the fact that the project will be in at least two different phases, without an establishment of a beginning date for Phase II. Without a doubt the final completed two phase project will need to be executed in such a way as to integrate NWS, GFDI and Geochemistry as part of a

comprehensive EOAS facility. Until Phase II is completed, the program areas and other units left out of Phase I will need to still serve the EOAS department without the benefit of collocation. And, it would be remiss not to mention the worst case scenario that Phase II will never come into fruition.

In addition to majors in the represented disciplines, a relatively new major, Environmental Sciences, is growing tremendously, and incorporates coursework from all EOAS represented disciplines: Oceanography, Geology and Meteorology. There will be additional demand on the new EOAS facility as all students at FSU are now required to take a science class with a laboratory.

There has been much discussion regarding the advantages of interdisciplinary mixing and its opportunities of impromptu meetings and sharing. With proper coordination and availability, some sharing of computer space, classrooms and library space is possible. Some labs could be shared throughout the EOAS department rather than have spaces dedicated to one unit within the department.

It is important, however to realize that the different disciplines, such as GIS, Meteorology Computing, Instrumentation, Fluids Demonstration, and Bio-Chemistry, will also need specialized teaching labs with teaching aids unique to each respective discipline.

Separate from this project the University is considering a specialized STEM (Science, Technology, Engineering and Mathematics) Building. As this topic was discussed with the building committee, the opinion of the disciplines represented was that the laboratory oriented classes would best be served in the EOAS Building rather than the STEM Building, but some classrooms could be located in the STEM Building.

Classroom sizes and quantities within the new EOAS facility are based on the demonstrated classroom need with smaller right sized classes. Larger classes (250 plus) would be served in other University spaces around campus. Large group functions such as EOAS faculty meetings and colloquia would need to be provided in the new EOAS building. The maximum group sizes discussed ranged from 100 to over 200, meeting up to 10 times a year. The building committee had some discussions regarding using moveable partitions to subdivide larger spaces when not needed to accommodate large group functions.

Standard Office sizes are preferred to make it easier as researchers, faculty and support staff change with time. Offices in the vicinity of respective labs are desired. Labs should be embedded within each respective department. Typically only 25-50% of faculty actually needs laboratory space. Although not implemented in the space summary, one idea discussed was to provide smaller offices for faculty with labs. As it stands now with the size of offices allocated in the space summary, there is concern among facility users about these spaces being large enough as many will realize a reduction in square footage over what they presently have.

It is essential that the new facility meet the research and instructional needs of the program areas and other units. There is concern that while an exhaustive analysis of classroom need was conducted from the previously mentioned study, no such analysis was performed for offices and labs. The building committee has expressed a need to review and comment on layout of offices and laboratories early on in the process, as there is concern that these spaces and their relationship to each other will be designed in such a way to meet their needs.

3. Signature Building

The design of this new facility inside and out is expected to reflect this new department's mission: "To provide high quality, innovative education that prepares, challenges and inspires students to shape the future of earth sciences: to be an international thought leader by producing high quality scholarly research and publishing in top-tier journals; to increase the public understanding of our science."

While its mission alone would justify a signature building, its location further echoes this calling. The proposed site is along the well traveled Tennessee Street (U.S. 90) and northern perimeter of FSU's Main Campus. The side street is Woodward Avenue at the North Gate Entrance into the University. In essence this will be the easternmost end cap to the University's science district. Future plans for the University may include a westward expansion, but it is unlikely any significant science building will be east of the new EOAS facility.

4. Relationship to Adjacent Buildings / Facilities

This new facility will have a relationship with the other science buildings in the geographical district bounded by the following roads: Woodward Ave., Academic Way, Chieftan Way and what is commonly known as the Call Street Pedestrian Way. The Carraway Building (with the exception of the AMGRF Annex and the Gunter Building are expected to be demolished prior to or in conjunction with the Phase I of EOAS project.

A working relationship between some of the occupants and functions of the Love Building, Keen Building and the Dirac Science Library are expected to be significant upon completion of the new EOAS facility. The Love Building will continue to house the National Weather Service upon completion of Phase I and is expected to continue the symbiotic relationship it currently enjoys with Meteorology which led them to place their new facility on the University campus a decade ago. The height of the new EOAS Building may be restricted due to the NWS balloon launch which will continue until the completion of Phase II. The basement of the Keen Building will continue to house the Geophysical Fluid Dynamics Institute (GFDI). The Dirac

Library which supports students, faculty and researchers through its on-line services may be providing new amenities, services and facility upgrade to encourage personal visits to the library.

While not a science building, the Bookstore, Card Center and SunTrust Bank located above the Woodward Ave. Parking Garage offers services to students, faculty and staff within the new EOAS facility and likewise the Oglesby Student Union across Woodward Avenue. The design professional may be asked to monitor and coordinate with efforts to rebuild the Oglesby Student Union which may begin simultaneously or at least overlap with the EOAS project design and construction.

5. Site and Street Level Improvements

a. Site and Pedestrian Improvements

A project of this scale and at this location has a tremendous number of opportunities for site and street level improvements. Not only will the building site proper need improvements, but the patch that this project fills will need to be stitched back to Main Campus on all sides.

The sloping site offers the design professional both challenges and opportunities as this project develops. The 2012 Space and Development Study identifies opportunities for a courtyard and a dedicated pedestrian thoroughfare on the west side of the project. Consideration should be given here on how this facility relates to the existing buildings such as the Love Building. Opportunities also exist to embrace the east-west walkway system on the south side of the site. This walkway has the Bookstore, FSUCardCenter and SunTrust Bank frontage. It leads us directly to the Stone Building on the West side of campus and Woodward Avenue and the Student Union on the East side of campus.

Discussed in the section below are the east and north perimeters of the site and opportunities to enhance pedestrian and all modes of transportation along these routes.

b. Service, Outdoor Material Storage, Vehicular Access, Vehicular Parking, and Bicycle Parking

Currently there are 8 Geology and 4 Oceanography Vehicles. There is also a COAPS Van and a Radar Truck. The Space Summary reflects the significant number of service vehicle exterior parking, enclosed bays, loading docks and as well as dock access and staging areas. Meteorology maintains the Radar Truck and it is used for activities as varied as class demonstration to storm chasing. Currently the vehicle is parked at a University facility off of Lake Bradford Road. It is the intention of the facility program to include spaces such as these within this one EOAS facility. However, as this project is expected to be located in the

central part of the Main Campus, there are significant issues with automobile access, not to mention large truck access and maneuverability. There has been extensive discussion among the building committee regarding importance of being able to bring in large trucks (18-wheel tractor trailers) and turn these vehicles around. The tunnel along Academic Way, below Woodward Avenue is specifically an issue because of its limited vertical clearance.

While all the user groups occupying this new facility will use the loading dock and service area, it is expected that Oceanography and the Antarctic Marine Geology Facility (AMGRF) will be the more involved and heavy users of it. The design of the Loading Dock is a topic which received much discussion with the Building Committee and there is great concern that it be built and function properly. The overall design should include room on the dock (width x length) to safely maneuver a forklift while unloading a full trailer, as well as adequate corridor and door widths and heights, and adequate elevator dimensions and weight capacity if work must be moved to an upper or lower level. Planning must also ensure that piping and ductwork does not encroach on the restricted heights of the dock and loading area. Below is the loading area criteria identified with the Building Committee:

- Provide entrance and egress, as well as turning radius, for tractor-trailer units of 80+ feet in total length. Please review the following website: http://onlinemanuals.txdot.gov/txdotmanuals/rdw/minimum_designs_truck_bus_turns.htm
- Dock height is typically 4'
- Presumably the dock will be nearly flush, with curtain door entering Hangar. The Hangar is the interior staging area for loading and unloading, as well as large equipment assembly.
- Plan for tractor-trailer units of 102-in. in total width –15 to 18 ft. for proper maneuvering.
- Trailer bottom clearance is 8 inches, entry drive ramps must be designed to avoid high-centering.
- The dock must be level for the trailer at the stop point (52+ feet).
- The dock must be well lighted.
- Provide for drainage.
- Provide a hose bib connection at dock.
- Provide striping on ramp for safe backing, and bumpers on the dock end for safe parking.
- Provide a dock leveler of adequate dimensions and weight capacity.
- Provide stairs from the ramp to dock height.
- Provide for overall loading dock width of 14-ft. and length of 28-ft.
- Provide 9-ft. wide and 10-ft. height doors accessing the interior hangar. Could be roll-up steel curtain/shutter.

Convenience and function necessitate having parking for service vehicles, dedicated secure storage and space to load and unload large vehicles on site. A large amount of land dedicated for equipment and material storage is needed, however, it is a concern on a campus with little available land. The design professional shall work with the Building Committee and all appropriate University departments on investigating options, including the use of remote locations to meet these program needs.

Currently the proposed site is divided by Antarctic Way. Part of preparing for the new construction will be to re-route Antarctic Way, closer to the eastern perimeter of the site. Although not part of this project, Territory Way across Woodward Avenue may also be reworked as part of the Student Union or another project. The design professional shall give input on ways to enhance Academic Way and its tunnel under Woodward Avenue. The design professional should always consider pedestrians and cyclists when evaluating and designing roadways. Bicycle racks per the University Standard should be tastefully and conveniently located to EOAS.

It should be noted that this area of campus already experiences significant issues regarding available faculty/staff parking. This facility program describes nothing to help alleviate this situation. Although the design professional is not expected to address the situation with this project he or she may be asked to participate in University discussions regarding this issue.

c. Trees and Landscape

The University recognizes that trees are living organisms and therefore have life expectancies like all of us. The design professional, therefore, should balance the need to preserve trees with the appropriate site design. If the removal of trees becomes necessary, then that should be the design professional's recommendation to the University. In such an event, then the project shall seek to plant appropriate new trees in locations where they can flourish and provide enjoyment for generations to come.

A sensitive and a well-conceived landscape plan is an important component of this project. Recommendations for irrigation and landscaping to achieve a cohesive and pleasing plan should be part of this project. It is expected that landscaping will be used to screen service areas; soften building masses; provide shade in seating areas, drives and pedestrian pathways; and to organize and define exterior space.

It is generally assumed that the scope of this project shall not be compromised as a result of any existing vegetation and that, where necessary, trees or shrubs will be removed to accommodate the construction of the project. The design professional shall make the Facilities Department aware of any such situation.

The project site contains landscaping such as shrubs and trees that have evolved over the years and has not benefited from a thoughtful, professional landscape analysis.

d. Visual Clutter

As with many construction projects, there are a certain number of building system components that are typically visible on the exterior of a building or elsewhere on a project site. These components, which include devices such as backflow preventers, transformers, switchgear, condenser units, and waste dumpsters, usually detract from a building's design if not appropriately handled. The design professional team therefore shall exercise special care to ensure that these types of devices do not impact or detract from the project's appearance.

There are several means by which this can be achieved. Ideally, the offending device can be incorporated into a project's design in such a manner that it is not conspicuous. Other types of concealment, such as screening walls or landscaping, should be utilized where appropriate. It is essential however that all methods of concealment comply with all applicable codes.

e. Exterior Building Signage

Exterior building signage shall include freestanding wayfinding signs, wayfinding plaques and metal letters attached to the building and shall be consistent with the University's signage standard and shall be implemented as part of this project. The design professional shall provide drawings indicating lettering, symbols and accessible route map (when needed) for review by the Facilities Planning Section. Additionally, when an accessible route map is needed, the design professional is responsible for creating the artwork necessary for the printing/signage company to create a decal. The Facilities Planning Section will review drawings for content and style consistencies prior to manufacturing of signs. This project is expected to fund all signage associated with this project. The Facilities Sign Shop shall construct and install the freestanding wayfinding signs and wayfinding plaques. The design professional shall consider in elevations studies how letters on the building will appear both for the opening day and if the facility is named differently at some future date.

6. Health, Safety, Security and Sustainability

a. Hazardous Material Abatement

Carraway Building Reports from FSU's Environmental Health and Safety (EH&S) indicate floor tile and mastic containing asbestos throughout the building has not yet been abated. Additionally laboratory countertops, chalkboards, vibration isolators, labeled fire doors, fire hoses and the roof

system are assumed to have asbestos.

The Gunter Building is occupied by Dept. of Environmental Protection's Florida Geological Survey and the facility is suspected to have mold issues. At this time there is no assessment from the University's EH&S for the Gunter Building. The current occupants are expected to move out this Year, at which time EH&S will likely conduct a survey.

The design professional shall be responsible for reviewing and complying with all applicable portions of the Design Guidelines and Specifications: https://www.facilities.fsu.edu/FDC/Guidelines.php then click on the following sequence: General Planning/General Construction Guidelines/Hazardous Material Abatement.

b. Security

As with all construction projects undertaken by the University, security, both in terms of personal safety and the protection of private and state property, is a very important issue. The design professional shall consider this issue in all matters of design, with special consideration given to any exterior improvements that might compromise the safety of the occupants or persons walking nearby. A range of strategies should be considered by the design professional, but at a minimum enhanced exterior lighting, security phones, and a facility design that minimizes areas where crime can be committed.

c. Breathe Easy Zone

The University has adopted a policy allowing each department, college or building to establish "Breathe Easy" Zones where smoking is not permitted for a distance of up to 50 feet around the perimeter of buildings. As part of this project the design professional shall design a "Designated Smoking Area" outside of the "Breathe Easy" Zone. The Designated Smoking area must be accessible to persons with disabilities.

d. LEED Certification

Florida State University is committed to stewardship of the environment through the promotion of sustainable practices. Green buildings, especially on a university campus, can serve as living laboratories that highlight the application and intersection of science, technology, and sustainability. The creation of the Earth, Ocean, & Atmospheric Sciences Department and its subsequent proposed facility is a prime opportunity to forge ahead with sustainability as a priority of the design, construction, and use of this building.
Strategies that minimize the overall impact of the building on the campus

environment and surrounding landscape should be incorporated throughout the design and construction processes. In order to match the sustainability goals of the University, construction projects shall seek to promote community connectivity and increased use of alternative methods of transportation; reduce energy and materials consumption; improve water management techniques; and foster healthy interior and exterior spaces. Building systems should be designed to maximize energy and water conservation and efficiency efforts and focus on decreasing consumption per square foot of space.

All new construction and renovation projects with budgets of $2 million or more shall seek Leadership in Energy and Environmental Design (LEED) certification from the U.S. Green Building Council (USGBC).

Documentation shall incorporate the latest version of LEED and shall target a minimum level of LEED Silver. Project teams are further encouraged to explore the feasibility of achieving a higher level of LEED certification and/or the ability to meet the 2030 Challenge for reduction of carbon emissions.

Prior to the commencement of the Schematic Design phase, the design professional shall meet with the Facilities Department to determine a specific certification strategy. Historic data from previously certified FSU projects should be reviewed and utilized to determine new project boundaries, while preserving those of previous projects. In some cases, previously developed data may be available for use in certifying new projects. Also, note that Facilities Department can provide information and trends related to the achievement of many pre-requisites and potential credits.

Building commissioning (a prerequisite to LEED certification) shall follow all minimum requirements specified by the USGBC and shall also comply with the University's standard commissioning process as defined in the FSU Design Guidelines. The FSU Design Guidelines include a scope document intended to structure the work of the Commissioning Agent and ensure that all critical equipment and processes are reviewed for compliance with the University's requirements. The need for Enhanced Commissioning or Building Envelope Commissioning shall be reviewed during the initial LEED strategy meeting. These services will be implemented at the University's discretion.

For projects whose characteristics fail to meet the minimum project requirements for LEED certification, the design professional shall submit a letter documenting the conditions which preclude certification. To the extent possible, sustainable practices shall continue to be employed in the development of a non-certified project.

Regarding this particular project, it is important for the design professional (and the construction manager) to understand the relevancy of the user group and large building area, particularly when Phase II is realized, and its associated project budget. Both phases exceed the traditional size and expense of the majority of capital projects. That is not to suggest, however, that this project has an unlimited budget; however, given the size of the project budget, it is not entirely unreasonable for the design professional to consider design features that promote a more sustainable design solution. The challenge, of course, is to strike a significant balance between cost and performance. Pushing the boundaries of that performance, however, is not an unreasonable design objective. It is through the exploration of such options that the collective basis of "what works" and "what doesn't work" is expanded.

e. Timeless Building

This proposed facility is expected to serve the University for decades. In order to accommodate changes that may occur in the future, the design professional shall design the facility with as much flexibility as possible, without compromising the intended immediate function. Consideration should be given so that decades from now, this building may be remodeled to serve the same user group or potentially housing different users.

7. Housekeeping and Building Services

Housekeeping of this facility will need to be discussed during program verification and the design. There needs to be considered room for paper storage, and general storage for mop buckets and a wet/dry vacuum. Custodial closets are required to have wood shelves, deep sinks and hot and cold running water. For the toilet rooms, floor mounted partitions are not acceptable. Please discuss with building committee and Facilities Building Services regarding who will supply restroom accessories and waste containers.

8. Accessibility

The laws, statutes and codes that govern the design and construction of this facility require it meet all applicable standards for accessibility throughout the entire facility. It is important that the design professional understand that accessibility should not be considered as an afterthought, but rather an important programmatic requirement, deserving of as much attention as any other project need.

The University, as well as provisions of the Americans with Disabilities Act (ADA), maintains a position that any disabled student on any of its campuses should be provided the same opportunities and access to facilities and functions typical to the experience of the student body. This includes access to fellow students and participation in all public activities offered.

The design professional shall consider accessibility, in all forms, as a basic design issue and integrate necessary elements into the overall project to ensure that all areas of EOAS are accessible in accordance with all applicable statutes and codes.

The design professional shall be aware of the varying needs and abilities of all individuals and whenever practical and feasible shall incorporate universal design principles. For example, although not mandated by code, the University has made it a standard practice to utilize features such as automatic door opening devices at the primary entrances as a means of integrating accessibility requirements into building designs. Another example would be to use a gently sloping walk, when space allows, accommodating all users in lieu of providing a separate stair and ramp. These are practical considerations that increase and ensure accessibility. The design professional shall consider and implement others.

Toilet and locker facilities shall be made fully accessible. Public drinking fountains and telephones shall be accessible. Tables, desks, computer workstations, reception desks and all features used by the public shall address accessibility.

It is important to realize that the design professional's responsibility for providing accessibility to this project does not begin at the building itself; rather, this project should connect and mesh with the evolving campus-wide accessible interconnected route network of sidewalks, transit stops, vehicle drop offs and parking.

It is essential that the existing accessible routes be maintained during the course of construction and in areas where it interfaces directly with this project be upgraded as needed. If a sidewalk must be blocked then it must be properly noticed with beeping barricades and direct access to legitimate crosswalks must be provided.

The design professional shall consult with the University's Office of Disabled Student Services and the Building Committee during the design phase to determine what additional special considerations, if any, should be incorporated into the project.

9. Wireless, Computer Technology, Computer/IT Space

The new conference rooms will utilize the latest recommended campus standards. Wireless is expected in common areas, classrooms and laboratories. Please see Division 16 of the Design Guidelines and Specifications website: https://www.facilities.fsu.edu/FDC/Guidelines.php

A specialized computer environment will be required to house computer servers. COAPS currently has 750 SF of computer room and the room in the new EOAS building will need to be larger than this to accommodate growth. The dedicated room at the Sliger Building is outdated and limited on space. Scientific Computing at Dirac is limited on space as well. The Building Committee discussed using portable data centers as an alternative to a dedicated room; however this idea was ultimately discarded. A cold room environment is needed and the shape of the room should be maximized to accommodate equipment racks. A raised floor is optional. UPS and generator back up required. Connectivity of this room to the FSU campus is critical. The cold room at the IT staff should be located near the EOAS administration.

10. Artwork

As this new facility is expected to utilize state appropriated funding, participation in the Art in State Buildings (ASB) Program is a requirement. The program requires that up to .5% of the construction appropriation be set aside to acquire artwork for permanent display in, on or around the facility. The Division of Cultural Affairs of the Florida Department of State, ensures that the selection process is followed as per Florida Administration Code 1T-1.033 in accordance with 255.043, F.S.

To the maximum extent feasible or practical the Building Committee would like to be involved in this process. The design of the artwork should be complementary to the new facility design and disciplines of study within.

11. Project Schedule / Delivery

The procurement of all design and construction services shall be administered in accordance with the University's guidelines.

It is essential that the design professional and the construction manager understand and appreciate the sensitive nature of the project's schedule. However, the design professional and the construction manager are strongly encouraged to make reasonable recommendations to accelerate the design and construction phases to better ensure that an acceptable schedule can be met.

X. Utilities Impact Analysis

The following is a brief utility analysis for the proposed EOAS project. All necessary utility improvements must be approved by the Facilities Utilities Section, the ITS Network Infrastructure Section and the Facilities Design and Construction Section prior to the commencement of design.

The design professional shall be responsible for examining the condition and capacity of the various utility systems that will serve this facility and make recommendations for all necessary improvements to these systems. Generally speaking, these recommendations shall focus on the two primary areas of concern; first, the condition of the existing distribution system, and second, the capacity of the distribution system and its ability to serve the project. In addition, the design professional shall be responsible for acquiring and verifying the locations and capacity of all University and City maintained utilities which serve the project site.

A. Chilled Water

Phase I is expected to have a chilled water requirement of approximately 630 tons or 1,260 gpm which will require an 8-in. Supply and Return to the new building. Phase II is expected have a chilled water requirement of approximately 525 tons or 1050 gpm which will require an 8-in. supply. The chilled water pipe size required to serve the combination of Phase I and II is 12-in.

Adequate Chilled water production capacity currently exists. However, depending on the actual timing of the need for chilled water for this project, it is likely that other new construction could precede the EOAS project. If this happens it is probable that the need for additional chilled water production capacity will occur. The most likely solution would be to install an additional 1,500 ton chiller in Satellite Utility Plant II located just west of the Mendenhall complex.

The proposed sites for Phase I and II (where the existing Gunter and Carraway Buildings are located) are currently served by 3-in. lines to Gunter and 4-in. lines to Carraway. Both of these lines are fed from a 6-in. chilled water supply and return lines. The existing 6-in. lines are inadequate to serve Phase I of the project, much less both Phases.

The closest location of chilled water distribution piping with sufficient capacity is a set of 18-in. lines that run east-west on the south side of Parking Garage One. It is recommended that a new 12-in. tap be made into the 18-in. lines for the purpose of feeding new 12-in. lines that will run northward to the EOAS site. At the point where the 12-in. lines pass the site for Phase II an 8-in. tap (with valves) should be provided. After this tap, the new chilled water lines can be reduced to 8-in. and continued on to the Phase I site.

B. Steam

Utility studies have verified the availability of steam production capacity in the Central Utility Plant, including planned growth for the next 10 years at a minimum.

The Gunter Building (where Phase I of EOAS is expected to be built) is currently served by steam and condensate lines from steam pit 3140. This same pit #3140 also serves the Carraway Building (where Phase II is expected to be built) While the final location of the Phase I and II buildings has not yet been determined, it is likely that steam pit 3140 will have to be removed as the Phase I site will probably extend over pit 3140. Therefore, the steam connection point for Phase I and II will need to be moved southward. There is an existing steam pit #3019 south of the proposed Phase II site that is served by a 12-in. steam supply line and a 6-in. steam condensate line. It is anticipated that this steam pit has sufficient capacity to serve both Phases I and II. It is recommended that independent lines be run from pit 3140 for Phases I and II.

C. Potable Water and Sanitary Sewer:

Potable water is supplied to the University by the City of Tallahassee. The existing Gunter Building (Phase I site) is served by a 6-in. line connected to a 16-in. City Main located to the east in North Woodward Ave. It is anticipated that the existing 6-in. line will not be adequate to the serve the proposed Phase I project. Therefore, a new tap and supply line connection into the existing 16-in. City main will be required.

The Carraway Building (Phase II location) is served by a 4-in. line connected to the 16-in. City main in North Woodward Avenue. It is anticipated that this line will not be adequate so a new tap and supply line connection to the 16-in. City main in North Woodward Ave. will be required for Phase II.

As an alternative a new tap sized for both Phases I and II could be done and then split to provide separate feeds for Phases I and II.

As the work involves connections to City lines, close coordination with the City of Tallahassee will be required. It should be noted that the project will have to pay tap and system charges to the City. Based on recent projects it should not be necessary to pay the entire system charge (which is based on meter size). It should only be necessary to pay the difference between the charge for the new meter size and the old meter size.

Sanitary Sewer service is provided by the City of Tallahassee. There is an existing 4-in. sewer line that serves Gunter (the Phase I site) and a 6-in. sewer line that serves Carraway (the Phase II site). It is unlikely that the 4-in. sewer will be adequate to serve Phase I and also it is possible that the 6-in. sewer will not be large enough to serve Phase II. Therefore, new sewer lines will need to be constructed for both Phase I and II. There

is an existing sewer manhole near the northwest side of Parking garage #1 that has an 8-in. discharge line. It is likely that the new sewer lines required for Phase I and II can be connected to the manhole. However, as it is not known at this time what the actual connected loads will be, it is the responsibility of the design professional to verify the capability of this manhole to serve both phases of EOAS.

D. Irrigation Water

Programmatic requirements for irrigation systems in this project are not known at this time. However, if it is determined that an irrigation system is to be included, it shall be connected to an independent irrigation meter and not connected to the building potable water system.

E. Stormwater

The design professional shall examine the existing conditions, calculate the amount of any increased run-off, and plan for stormwater improvements accordingly.

FSU is participating with the City of Tallahassee in the utilization of a regional stormwater facility. Therefore, it is not expected that any stormwater detention or retention facilities are expected for this project. The design professional shall be responsible for the acquisition of all local and state stormwater permits.

F. Natural Gas

It is not known, at the programming stage whether natural gas will be required. However, if needed, there is a 6-in. City of Tallahassee gas main to the east side of the site in North Woodward Ave.

G. Well Water

At the present time, well water service is not expected to be a requirement of this project.

H. Electrical (Power):

Electrical service to the new facility will be provided by the existing 15-KV distribution system. Circuit 19 presently serves the Gunter and Carraway buildings. Circuits 11 and 19 are in close proximity to the proposed facility. Circuit 19 is the better alternative for providing the required electric service.

There is an existing 15-KV oil switch that will need to be replaced with the present standard switch to provide service to the new facility. The existing 15-KV electric cable is old PILC type and needs to be replaced back to manhole W57. The present location of the 15KV switch is ideal for providing service to the new facility, provided the layout of the new facility does not necessitate the relocation of the present equipment.

The existing duct bank from W57 to the switch location currently runs under the Antarctic Storage facility. The design professional should investigate the feasibility of an alternate route for the duct bank; thus eliminating having any part of the duct bank under existing buildings or future buildings. One possible suggestion is to install a new duct bank from W78 to this switch location and reroute the circuit. Circuit 19 also runs through W78.

New transformers will be required for the new facilities. These can be installed as needed depending on the progress of the first and second phases of the project. Electrical service to the existing Antarctic Storage facility is presently served by the Carraway building electrical system. The service to this facility will have to be maintained during demolition of the Carraway building. The design professional will need to provide adequate service for this facility in the first phase of construction. Presently there is not sufficient load information to give an accurate estimate of the electrical demand the new facility will require.

A diesel powered emergency generator and an automatic transfer switch shall be provided for emergency lighting, elevator power, life safety requirements, laboratories, hoods and computers. Any required or optional emergency power will require a separate transfer switch and emergency electric system.

A microprocessor based addressable fire alarm system shall be provided to transmit general alarm, trouble and supervisory conditions to the campus police station via a Keltron Transmitter.
A Master Label lightning protection system shall be provided for the structure.

I. Electrical (Lighting):

Site lighting shall be provided around the facility by campus standard fixtures. The design engineer shall consult with campus police to determine the most appropriate locations and light levels required.

The exterior lights shall be controlled by a photocell system to insure optimum lighting efficiency of operation. Equipment rooms and stairwells shall be provided with fluorescent fixtures, with T8 lamps and electronic ballasts, to achieve a minimum light level of 20 foot-candles. Emergency egress lighting shall be provided as required by code.

J. Telecommunications

Data and telephone communications to the new facility will be derived from the Dirac Science Library (DSL) node room. Fiber Optic cable will be installed from DSL to the new facility utilizing portions of the existing duct-bank system. A new 4 in. by 4 way duct-bank should be installed from either or both manholes C8-8A and/or C8-9 to the main Telecommunications Room(s) in the building. The design professional shall coordinate the pathway design with ITS Network Infrastructure as portions of the existing duct-bank system may be inadequate to support the installation of additional cable.

XI. Information/Communication Resource Requirement

The need to provide adequate and appropriate information and communication resources for the Earth, Ocean and Atmospheric Sciences (EOAS) Building is essential to its daily functions. Technology features should be maximized as far as the budget will allow. If the budget does not allow for certain features to be placed now, then empty conduit (pathway) should be installed to incorporate future technology. Not only anticipated needs, but unanticipated needs should be accounted for as well. For example if LCD projectors or digital signage at the conference rooms cannot be purchased now, pathway should be installed now in anticipation of acquiring this technology in the future. Empty conduit “home-runs” should be located at strategic locations in anticipation of future need. Wireless should be incorporated now into the facility, to the maximum extent allowed by the budget, however, not at the expense of deleting wire pathway. The network lines shall be provided in an open trough (re-configurable) fashion whenever feasible.

Generally speaking, the term "Information Technology Resources" shall include the hardware, software, services, supplies, personnel, facility resources, maintenance, and training involved in the function of data processing. Examples of Information Technology Resources are computer hardware, and peripheral equipment, such as computers, file servers, printers, scanners, etc.

Similarly, the term "Communications" shall include the hardware, software, services, personnel, facilities and training involved in the transmission, emission, and reception of signs, signals, writings, images, and sounds of intelligence of any nature by wire, radio, or other electromagnetic systems. Examples of "Communications Resources”: are wiring of the facility for voice, data, and video; connections within/between buildings, and campus networks; backbones; electronic classrooms; communications/data jacks in rooms; satellite up-links and down-links; communications closets; television; security systems; and radio transmission facilities equipment.

Standard guidelines and specifications have been developed and adopted by the University to assist the design professional in the design of this project. The Office of Telecommunications (Now known as Office of Information Technology Services) developed a document entitled "Florida State University Telecommunications Infrastructure Standard" which can be accessed via the following web address:

http://www.fpc.fsu.edu/guidelines.html

The design professional shall be expected to become thoroughly familiar with the contents of this specification and shall plan for the design of all telecommunication systems according to this specification. The University’s Office of Information Technology Services (ITS) must approve any departures from this standard specification.

The University's Office of Information Technology Services (ITS) is generally responsible for the installation, operation and maintenance of these networks.

ITS Network & Communication Technologies have the responsibility of closely overseeing design, development and approval of telecommunications systems. The Facilities Department along with ITS Network & Communication Technologies will review design documents in several phases of completion to assure their compliance to local and national standards and codes. During the design phase, these reviews typically occur at the conclusion of the Schematic, Design Development, 50% Construction Document and 100% Construction Document milestones.

The actual installation of Information Technology Resources and Communications shall be performed by ITS Network & Communication Technologies or under their close supervision.

As evidenced by the approval signature of this document's Signature Sheet, the University's Chief Information Officer for ITS has assisted in both the development and review for final approval of this program document for compliance with the requirements for the development of facility programs.

Classrooms, conference rooms, multi-purpose rooms, seminar rooms or rooms providing a similar function, and applicable university standards shall be applied to these. The Office of Information Technology Services (ITS) shall review Classrooms and Conference/Seminar rooms in the design and construction phases for compliance with the Technology Enhanced Classrooms Initiative.

In closing, it is worth repeating that the design professional shall work closely with the Facilities Department, ITS Network & Communication Technologies, the Building Committee and other appropriate University departments from the early stages of design through the construction phases to ensure that all information and communication systems are fully understood, designed, and installed in accordance with all appropriate standards.

XII. Codes and Standards

Over the past few years, there have been substantial changes to the regulatory system that controls university development. The restructuring of the higher education governance system, the adoption of a statewide building code, the evolution of a University Board of Trustees, the advent of a University-wide permitting office are just a few examples of such changes. Since many of these changes are very recent, it is difficult to fully predict or evaluate how campus construction and the systems that oversee it will be impacted.

The vast majority of all capital construction projects completed at Florida State University, regardless of whether they fall within the category of either a major or minor project are administered by the Facilities Department. All construction activities that occur on the Florida State University campus are tightly regulated by a series of existing and new statutes, standard practices, and policies. The responsibility for ensuring that the completion of this project meets these requirements has been assigned to the Facilities Department; that portion of the process remains unchanged.

The following is a general enumeration of the statutes, standard practices and policies that the design professional shall follow in developing this project. This list may not be entirely complete nor does it absolve the design professional from any legal or contractual responsibilities. It should also be noted that the design professional shall ensure that the design documents comply with all codes until the date the project is permitted for construction as part of the basic service requirements. The design professional shall also ensure that all codes utilized during the design process shall be the most currently adopted.

A. Florida Statutes

The design professional shall ensure that the design and construction of this project meets all of the appropriate and applicable sections of the following Statutes

- Chapter 163 Intergovernmental Programs
- Chapter 255 Public Property & Publicly Owned Buildings
- Chapter 287 Procurement of Personal Property and Services
- Chapter 553 Building Construction Standards
- Chapter 663 Fire Prevention and Control
- Chapter 1000-10013 K-20 Education Code
- Chapter 489 Construction Contracting

B. Codes and Standards

The design professional shall also ensure that the design and construction of this project meets all of the appropriate and applicable sections of the following codes and standards:

- Florida Department of Environmental Protection

- Department of Education's Space Standards, State Requirements for Educational Facilities
- Florida Building Code
- Florida Elevator Safety Code, Department of Business and Professional Regulation
- Rules of the Department of Business and Professional Regulation
- Rules and Regulations of the Division of Health
- Rules of the Florida Agency for Workforce Innovation and Florida Department of Financial Services
- Florida Lifestyles Energy Evaluation Technique
- Rules of the Area Water Management District
- Environmental Protection Agency
- Federal "Americans with Disabilities Act" (ADAAG Guidelines)
- Fair Housing Accessibility Guidelines
- Florida Fire Prevention Code
- ASHRAE Standard 62-1989,
- Appropriate ANSI regulations
- Appropriate OSHA standards during construction,
- Florida State University "Architectural Design Guidelines" and "Landscape Design Guidelines" and all other applicable university guidelines.
- Any other regulatory codes or standards that apply to this type of project.

The design professional shall also be responsible for following the requirements of the development agreement between the City of Tallahassee and the University concerning growth management issues.

It is worth noting again that the Florida State University Building Code Administration Section, a unit of the University's Environmental Health and Safety Department, ensures that all new building construction, additions, alterations, repairs, remodeling or demolitions and all installations of building systems meet Florida Building Code requirements including all electrical, plumbing, mechanical, gas, gas fuel, fire prevention, energy conservation, accessibility, stormwater and flood plain management requirements. This office supervises, directs and enforces the plans examination, permitting and inspection certification program in all University buildings only. When the Building Code Administrator is satisfied that all requirements have been met, a certificate will be issued that allows completed buildings to be occupied.

It is the responsibility of the design professional and the University's construction project manager to ensure that all plans review and construction inspection requirements are met. It is highly recommended that at the commencement of this project, the design professional meet with the University's Building Code Administrator to discuss the project and any possible code issues, schedules for plans review, and other administrative procedures.

XIII. Project Schedule

The proposed schedule for the completion of this project is listed below in tabular form and highlights the more important milestone events expected to be achieved during the course of this project.

The date of completion is a very important milestone. First of all, if it is not reached, it could compromise the University's commitment for academic facilities. Secondly, the simple reality is that the passage of time reduces the value of money. In order to maximize the effective use of funds that are committed to this project, their timely expenditure is critical.

The schedule that is listed below is conservative and assumes a rather straightforward approach to both the design and construction phases. It does not necessarily reflect the potential savings in time that can be realized by using strategies such as the implementation of early bid packages, the purchase of long-lead items, accelerated design schedules, and the like. It is recognized however that there are practical limitations to the use of these and similar strategies and that the risk and rewards of each must be analyzed. It is not unreasonable to assume that, at a minimum, the design professional and construction manager should be able to meet the schedule indicated. The project team is encouraged to make reasonable recommendations to meet the project schedule or to accelerate the completion date.

Project Schedule

Mar. 2013	Facilities program expected to be completed and approved Architect/Engineer (A/E) selection expected to begin.
May 2012	Construction Manager (CM) selection expected to begin.
June 2013	A/E selection expected to be completed; design contract negotiated and executed; Notice to Proceed issued to commence the advanced programming phase.
Aug. 2013	CM selection expected to be completed; contract for Preconstruction services expected to be negotiated and executed; Notice to Proceed issued to commence preconstruction phase.
Sept. 2013	Commence Design.
Sept. 2014	Guaranteed Maximum Price (GMP) proposal solicited and received from CM. Design phase expected to be completed, 100% Construction Documents submitted and reviewed, including review by the Office of the State Fire Marshall. Permits issued.

Nov. 2014	GMP proposal accepted; construction contract executed; Notice to Proceed issued to commence construction phase. Asbestos and hazardous material abatement begins.
May 2016	Substantial Completion of EOAS Expected
June 2016	Final Completion of EOAS Phase I Expected.

XIV. Program Funds

This project has the potential to be funded from a variety of funding sources, some of which likely will involve appropriated funds. For example, the planning funds appropriated by the Florida Legislature last year were derived from lottery revenues. Traditionally, academic projects on university campuses have been developed utilizing PECO funds. More recently, the availability and reliance on that funding mechanism has been marginalized as State revenues have declined. This creates, therefore, a sense of uncertainty as to how the construction activities and the furnishings/equipment acquisitions will be funded. For now, the University is still looking towards the Legislature and the possible resurgence of PECO, General Revenue or other state appropriated funds to sustain this project. The following is a listing of the various funding requests that the University has made to date.

Funding Requests:

Year	Source	Amount
FY 2012-2013	Lottery Revenues	$ 3,850,000
FY 2013-2014	PECO or Other State Appropriated Funds	$30,000,000
FY 2014-2015	PECO or Other State Appropriated Funds	$26,100,000
FY 2015-2016	PECO or Other State Appropriated Funds	$ 5,000,000

The proposed breakdown of this funding into the major project categories is as follows:

Planning	$3,850,000
Construction	$56,100,000
Furnishings/Equipment	$5,000,000
TOTAL	**$64,950,000**

The breakdown of costs within each specific project category can be found in the Project Budget Summary.

XV. Project Budget Summary

A. General

This project's estimated Project Budget Summary can be found on the following page and includes a breakdown of all project costs necessary for the design and construction phases. The design professional and construction manager shall be responsible for verifying this estimate and making recommendations for adjustments, where necessary.

All costs outlined in the Project Budget Summary are based upon a two-phase sequence commencing in January 2016. Any delay beyond this start date or disruptions in funding may affect the project cost. An escalation factor of 2% per year is included in each phase of the project. The following is a brief explanation of the various budgetary components that were considered in the development of this Summary.

B. Schedule of Project Components

1. Construction Components (Basic Construction Cost)

a. Construction Cost (from above)
The cost of the building itself is taken directly from an extensive study provided by a campus services architect.

b. Site preparation / Demolition
An allowance has been identified in the project Budget Summary to provide for general site development costs that may be incurred by this project, including some site preparation, relocation or extension of any required utility lines, grading, hardscaping and landscaping. This allowance also includes demolition of existing university facilities in order to make way for the new construction project.

c. Environmental Mitigation (Asbestos & Lead Abatement)
An allowance has been identified to provide for abatement of asbestos lead and hazardous materials identified in earlier studies. A copy of this report is available to the design professional and construction manager.

d. **Landscape and Irrigation**
An allowance has been provided to allow for these items.

e. Walk
An allowance has been provided to allow for this item.

f. **Parking and Drive**
An allowance has been provided to allow for these items.

g. **Service Access / Plaza**
An allowance has been provided to allow for these items.

h. **Road Rerouting / Academic Way**
As the proposed site may absorb Antarctic Way, an allowance has been provided to allow for alteration of Academic Way/Woodward Avenue/Antarctic Way

i. Telecommunications – Outside Plant (OSP)

- *Outside Plant Pathway*: This includes manholes with multiple 4-inch conduits encased in concrete then routed into the building or between multiple buildings.
- *Outside Plant Content (Wiring):* This item includes all the specialized wiring within the Outside Plant conduit system. Typically it includes copper cabling and fiber optic cabling required to receive services to the building.

j. **Electrical Service**
An allowance has been provided to allow for these items.

k. **Water Distribution & Fireline**
An allowance has been provided to allow for these items.

l. **Storm / Sanitary Sewer System**
An allowance has been provided to allow for these items.

m. Chilled Water/Steam Line
An allowance has been provided to allow for these items.

2. Other Project Components (Other Project Costs)

a. Land/existing facility acquisition
There are no costs associated with acquisition of existing facilities and land associated with the construction of this project.

b. Professional Fees

- *Advanced Programming:* This program is preliminary in nature and an allowance has been set aside to cover the cost of providing advanced programming for this project.
- *Basic Services:* An estimate of professional fees for the design professional team has been included and is based upon the standard fee curve used by the University. These fees cover items normally associated with the basic services portion of the project.
- *Design Contingency:* A small design contingency has also been included. The University does not believe that the services of any specialty design consultants are required on this project.

c. Asbestos/Lead Survey/Design

An allowance has been provided for the Asbestos and Lead Survey of the existing structures and associated facilities on the proposed building site.

d. Preconstruction Services

Funds have been reserved to provide preconstruction services rendered by the construction manager. These fees are based upon a percentage of the construction and site development costs.

e. Fire Marshal Fees

Per standard University practice, funds have been reserved to cover the costs of plans review by the State Fire Marshal's Office.

f. Inspection Services

Funds have been reserved to cover the number of inspection services that are required on this project:

- *Commissioning + LEED:* An allowance has been set aside for documentation and commissioning related items needed for LEED certification.
- *Site Representative:* Because of the size and scope of this project, an allowance has been made for the services of a full-time, on-site clerk of the works.
- *Threshold Inspection:* Depending upon the design solution, the services of a threshold inspector may be required; therefore funds have been reserved for this purpose.
- *Roof Inspection:* Funds have likewise been reserved for the services of the required roof inspector.
- *Plan Review/Inspection:* Funds have been reserved to cover the cost of plans review and inspections by the University's Building Code Official.

g. Insurance Consultant

Per University standard practice, funds have been reserved to fulfill the requirements for the Owner Provided Insurance (OPI) consultant.

h. Surveys & Tests

Funds have been reserved for the accomplishment of various surveys, sampling, monitoring and tests that will be required to complete the project. This includes but is not limited to topography, geotechnical investigation, testing during construction, material testing and HVAC test and balance.

i. Asbestos/Lead/Abatement Monitoring

Funds have been reserved for asbestos and lead abatement monitoring associated with the existing buildings and facilities on the proposed site. This allowance includes tests that will be required to complete the project.

j. Permit/Impact/Environmental Fees

There are no expected costs associated with this project to handle permit, impact and environmental fees.

k. Furnishings and Equipment

A percentage of the total basic construction costs has been set aside as an allowance for the acquisition of non-fixed furnishings and equipment for this project.

l. Telecommunications—Inside Plant

- *Inside Wiring:* The necessary voice, video and data cabling needed to provide services throughout the building. It includes copper and fiber optic vertical and horizontal wiring, elevator phone wiring, CAT 5E data wiring and all necessary hardware in the telecommunication rooms.
- *Instruments:* The required telephone instruments needed to supply a typical office environment with simple single line, hands free instruments and the cost of a few emergency blue lights and some entrance phones.
- *Security:* The required access system (doors/swipes) and/or security systems.
- *Network Computer Equipment:* Routers, hubs, wireless access points, and battery back-up and other computer equipment as required.
- *Core Network Equipment:* Shared costs of a core router chassis, batter back-up and a 1 Gbps fiber optic transport port.

m. Classroom Technology

A special allowance has been included to furnish and install special classroom, teaching lab, seminar room and conference room technology equipment, including projectors, computers, projection screens, control centers and the like.

n. Moving Expenses

This is an allowance to cover moving expenses of the EOAS groups affected by this project.

o. Artwork

The requirement for artwork is applicable since appropriated funds are being used to construct this project. The state requires 0.5% of the building (under roof) structure construction costs (up to $100,000) to be set aside for the procurement of artwork.

p. Infrastructure Assessment

Funds have been reserved to cover this project's contribution to meet the University's infrastructure needs.

q. Project Contingency

A project contingency has been established to cover unforeseen conditions and impacts to the project.

Budget Summary for EOAS Phase I

Room Use Codes	Facility/Space Type	Net Area (NSF)	Net to Gross Multiplier	Gross Area (GSF)	Unit Cost (Cost/GSF)	Total Cost
100	Classroom	9,280	1.65	15,312	205	3,138,960
200	Teaching / Research Lab	41,170	1.65	67,931	240	16,303,440
300	Office/Conf. Room	52,920	1.65	87,318	195	17,027,010
400	Library	1,500	1.65	2,475	205	507,375
600	Study	1,440	1.65	2,376	195	463,320
700	Shop/Vehicular Storage	7,275	1.65	12,004	205	2,460,820
XXX	Custodial	725	1.65	1,196	190	227,240
WWL	Elevator and Shaft x 3					750,000
	TOTALS	**114,310**		**188,612**		**40,878,165**

SCHEDULE OF PROJECT COMPONENTS

1. Construction Components (Basic Construction Cost)	**Planning**	**Construction**	**Equipment**	**Total**
a. Construction Cost (from above)		40,878,165		40,878,165
b. Site Preparation / Demolition		842,000		842,000
c. Environmental Mitigation (Asbestos & Lead Abatement)		273,000		273,000
d. Landscape and Irrigation		100,000		100,000
e. Walks		100,000		100,000
f. Parking and Drives		100,000		100,000
g. Service Access / Plaza		1,100,000		1,100,000
h. Road Rerouting / Academic Way		1,300,000		1,300,000
i. Telecommunications - Outside Plant (OSP)				
Pathway		50,000		50,000
Content (Wiring)		25,000		25,000
j. Electrical Service		500,000		500,000
k. Water Distribution & Fireline		100,000		100,000
l. Storm / Sanitary Sewer System		200,000		200,000
m. Chilled Water/Steam System		800,000		800,000
(1) Total Basic Construction Costs		**46,368,165**		**46,368,165**
8% Escalation		**3,709,453**		**3,709,453**
(1a) Total Basic Construction Costs w/ Escalation		**50,077,618**		**50,077,618**

2. Other Project Components (Other Project Costs)	**Planning**	**Construction**	**Equipment**	**Total**
a. Land/existing facility acquisition				
b. Professional Fees				
Advanced Programming	100,000			100,000
Basic Services (Group A)	2,075,000	325,000		2,400,000
Design Contingency (10% Bas.Serv.)	240,000			240,000
c. Asbestos/Lead Survey/Design	25,000			25,000
d. Preconstruction Services 1%	500,000			500,000
e. Fire Marshal Fees (.0025)	125,000			125,000
f. Inspection Services				
Commissioning + LEED (1%)	500,000			500,000
Site Representative		180,000		180,000
Threshold Inspection		65,000		65,000
Roof Inspection		45,000		45,000
Plans Review/Inspection (3%)	150,000			150,000
g. Insurance Consultant (.0006)	30,000			30,000
h. Surveys & Tests				
Topographic Survey	20,000			20,000
Geotechnical Investigation	20,000			20,000
Testing During Construction	65,000			65,000
HVAC Testing/Balancing		65,000		65,000
i. Asbestos/Lead/Abatement Monitoring		15,000		15,000
j. Permit/Impact/Environmental Fees		0		
k. Furnishings & Equipment			4,550,000	4,550,000
l. Telecommunications				
Inside Wiring		334,000		334,000
Instruments		74,000		74,000
Security		166,000		166,000
Network Computer Equipment		283,000		283,000
Core Network Equipment		6,500		6,500
m. Classroom Technology			450,000	450,000
n. Moving / Relocation Expenses		100,000		100,000
o. Artwork		100,000		100,000
p. Infrastructure Assessment (2%)		1,002,000		1,002,000
q. Project Contingency (7%)		3,261,882		3,261,882
(2) Total - Other Project Costs	**3,850,000**	**6,022,382**	**5,000,000**	**14,872,382**
ALL COSTS (1) + (2)	**3,850,000**	**56,100,000**	**5,000,000**	**$64,950,000**

XVI. Appendix

The following Exhibits represent additional information relating to the programming and design of this project. They are included for information purposes only; questions relating to their content should be addressed to the construction project manager. The following is a brief description of each Exhibit.

Exhibits 1.1 – 1.2 – 1.3: **Project Site Location**

This Exhibit includes: 1. The current site location within the Main Campus. 2. The project site surroundings. 3. Walking Distance diagram.

Exhibits 2.1 – 2.2 – 2.3: **Site Features**

This Exhibit illustrates: 1. The site's topographic features. 2. The stormwater conveyance systems. 3. The vegetation features.

Exhibits 3.1 to 3.7: **Site Utilities**

This Exhibit contains illustrations that identify the locations of existing site utilities and Telecommunications.

Exhibit 4: **Space Summary**

This Exhibit contains a copy of the Space Summary for this project.

Exhibit 5: **Room or Data Collection Sheets**

This Exhibit contains individual Room or Space Data Sheets.

Exhibit 6: **Site Photographs**

This Exhibit contains photographs of the proposed site and its surroundings.

Exhibit 1
1.1 – 1.2 – 1.3

Project Site Location

This Exhibit includes: 1. The current site location within the Main Campus. 2. The project site surroundings. 3. Walking Distance diagram.

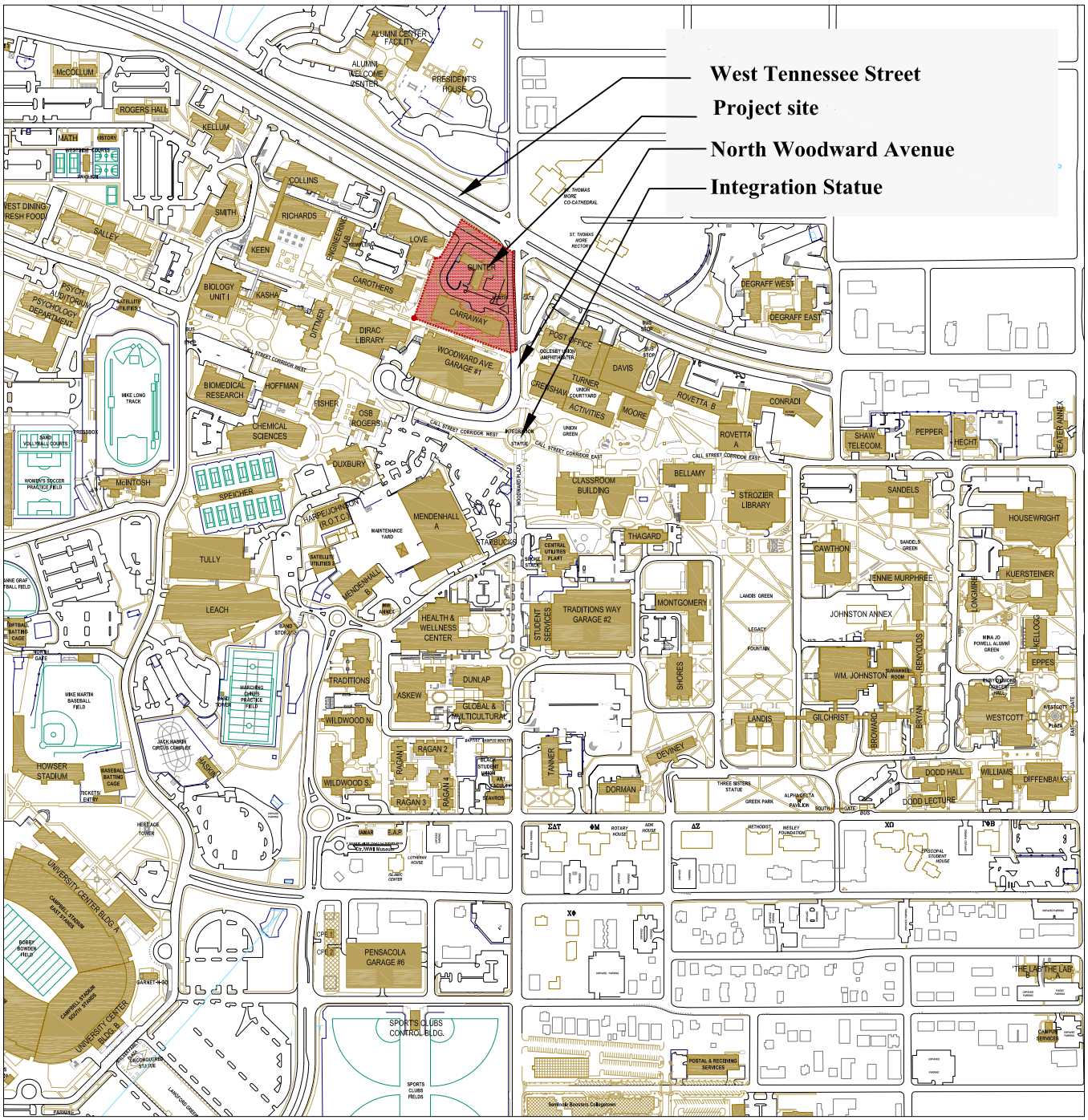


EXHIBIT 1 -1. SITE LOCATION

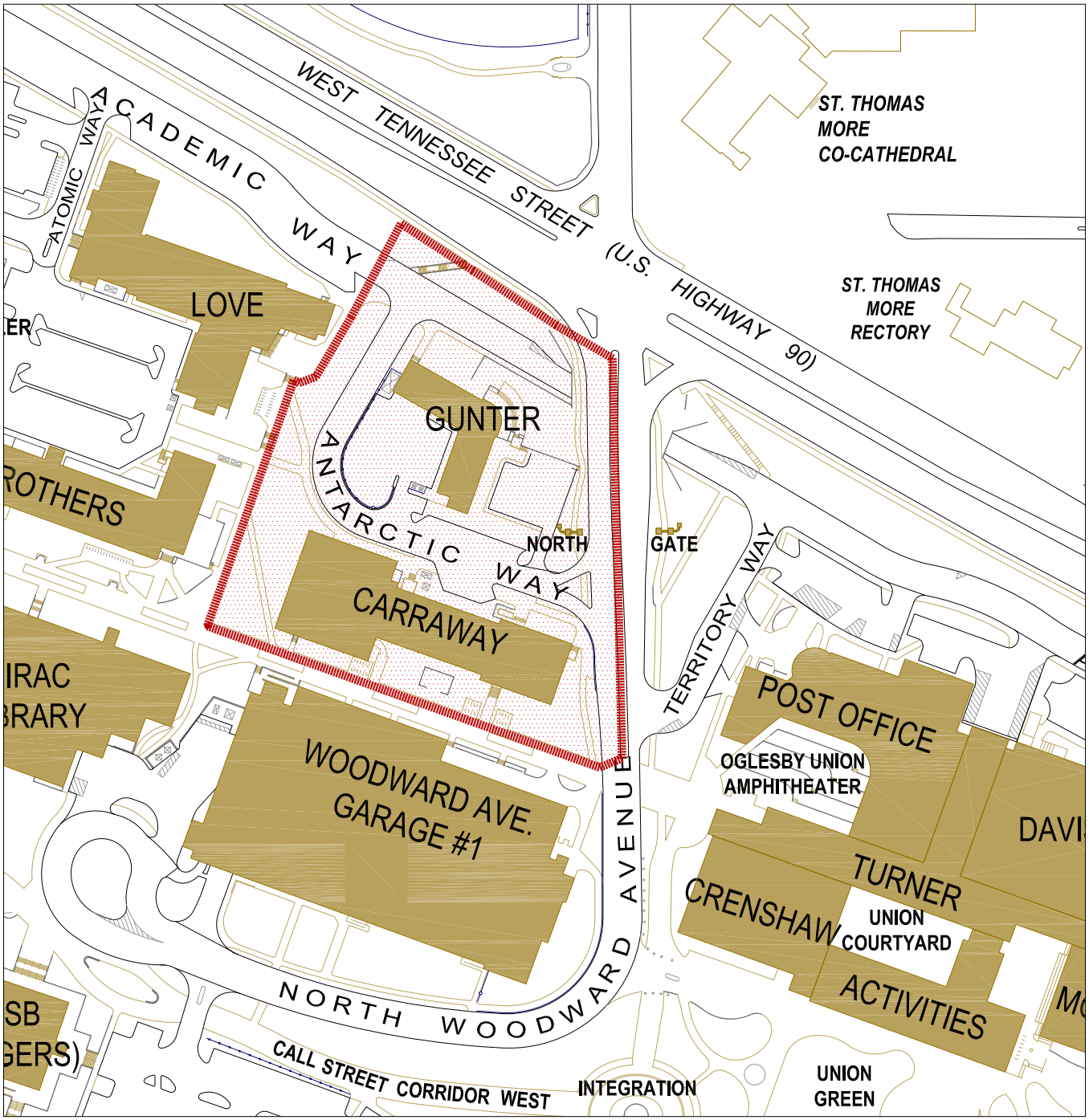


EXHIBIT 1 - 2. PROJECT LOCATION

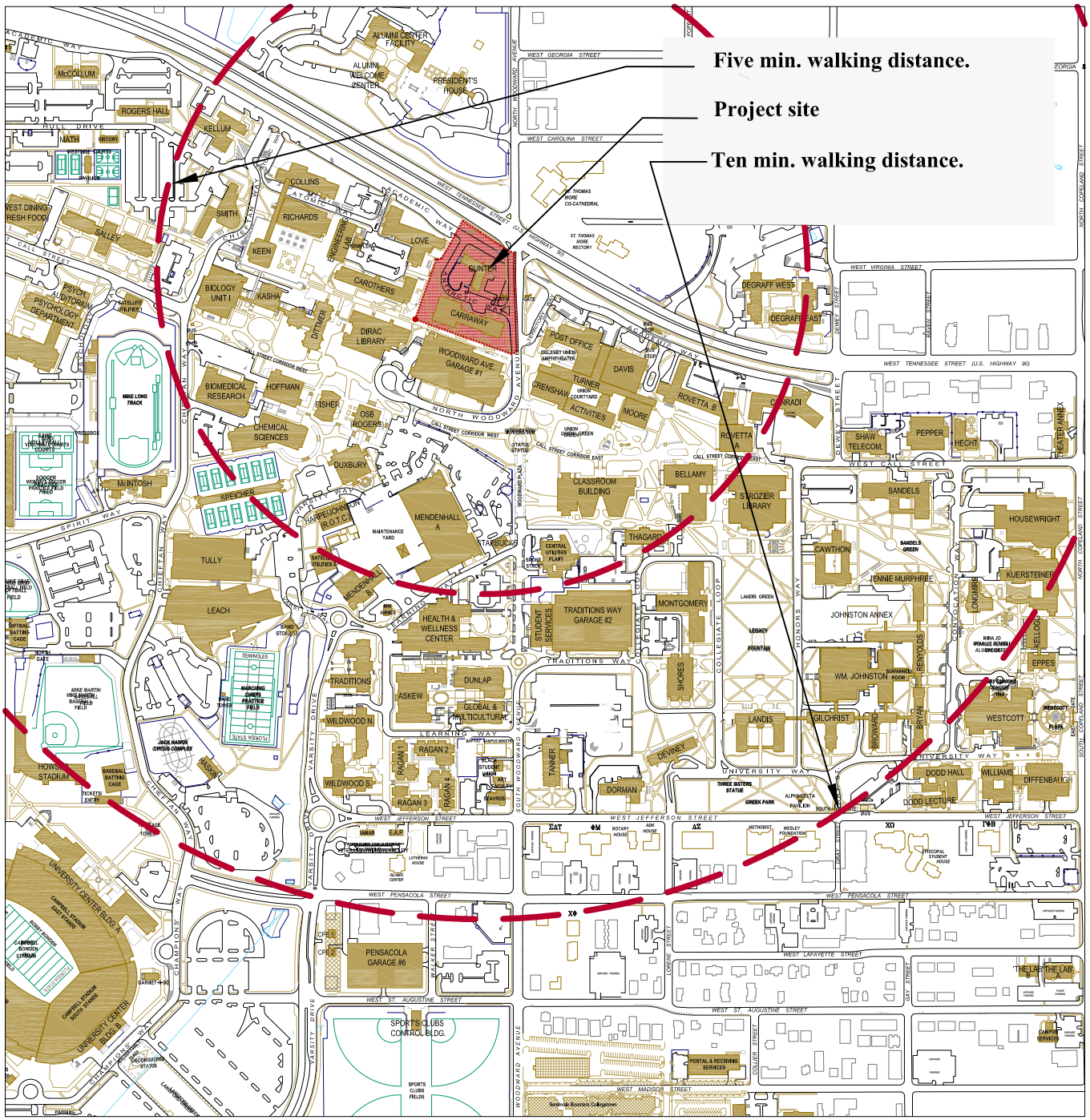


EXHIBIT 1 - 3. WALKING DISTANCE

Exhibit 2
2.1 – 2.2 – 2.3

Site Features

This Exhibit illustrates: 1. The site's topographic features. 2. The stormwater conveyance systems. 3. The vegetation features.

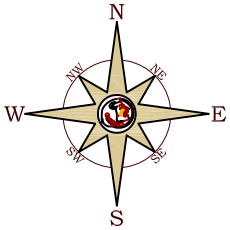
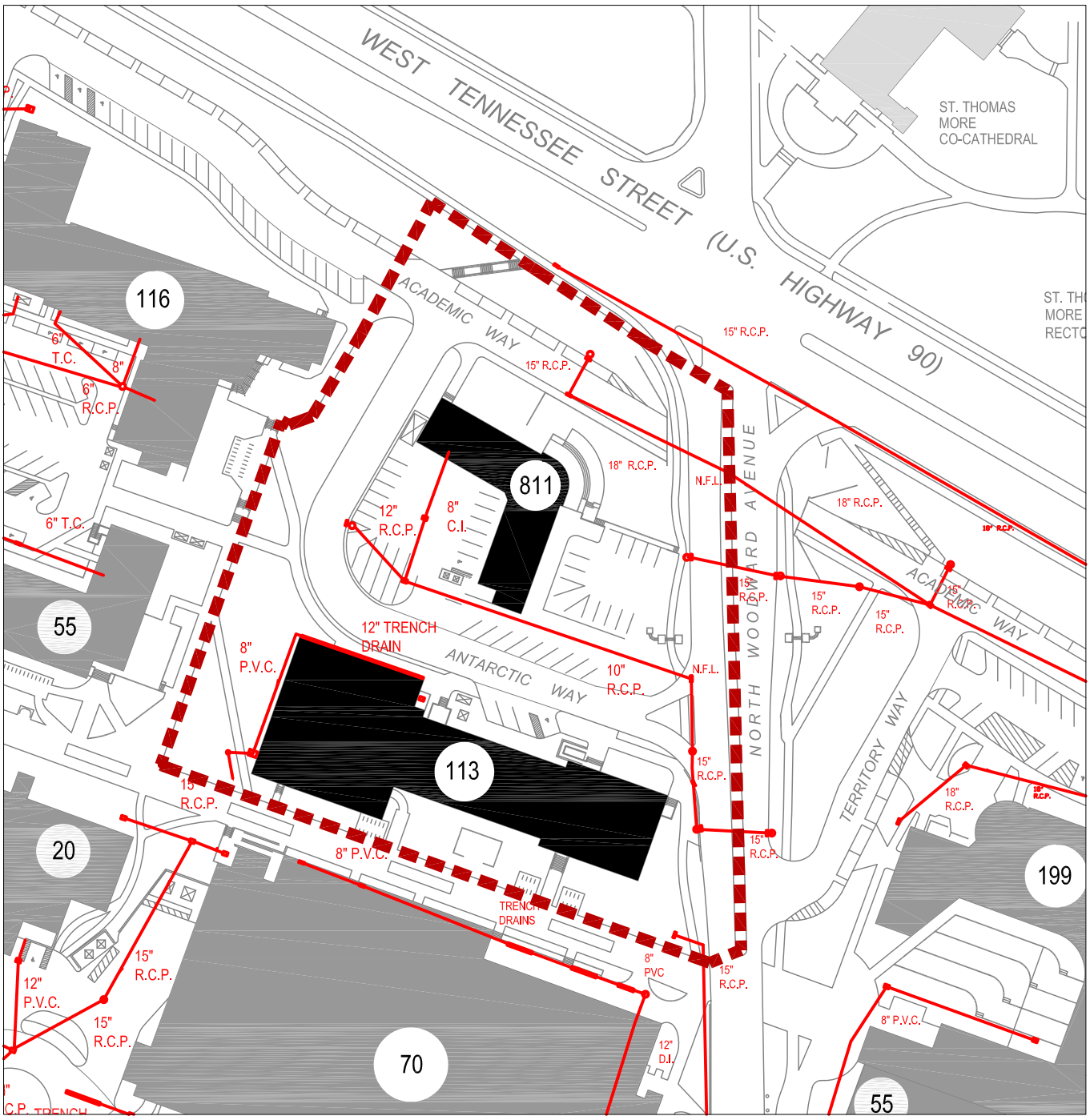
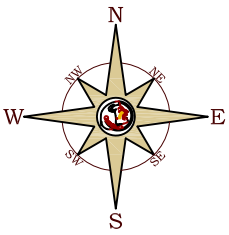


EXHIBIT 2 - 1. Topographic Map



20 DIRAC SCIENCE LIBRARY
55 CAROTHERS HALL
70 PARKING GARAGE No. 1
113 CARRAWAY BUILDING
116 LOVE BUILDING
193 CRENSHAW BUILDING - UNION
199 POST OFFICE BUILDING - UNION
811 GUNTER BUILDING

EXHIBIT 2 - 2. Storm Water



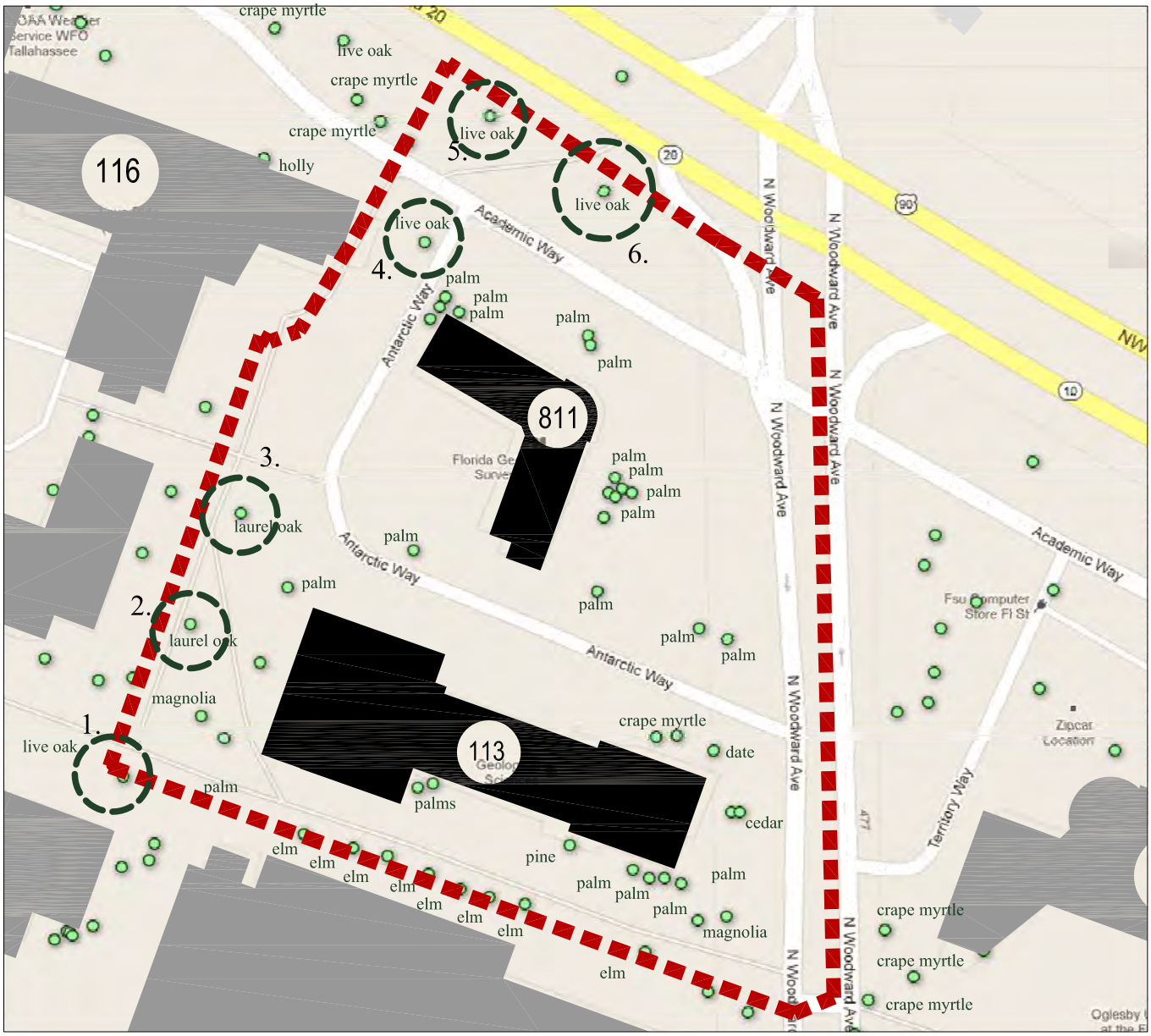


EXHIBIT 2 - 3. Vegetation

1. LIVE OAK - Dead wood is expose don trunk, a number of dead limbs are visible in the top, has fair leaf density (some shedding that is related to the Spring flush,) conks visible on major limbs (evidence of internal decay), improper large cut was made in large limb removal.

2. LAUREL OAK - Poor branching form (has many closely spaced branches), no evidence of internal decay, no dead limbs (some tips of limbs are leafless due to new Spring leaf flush)

3. LAUREL OAK - Has dense canopy head, many new leaves and oak blossoms with the Spring flush, evidence of a previous "bleeding" canker, poor branching form, some small dead limbs.

4. LIVE OAK - Has scattered dead wood in the canopy, very few conks (little evidence of internal decay), good foliage color, has fair growth form.

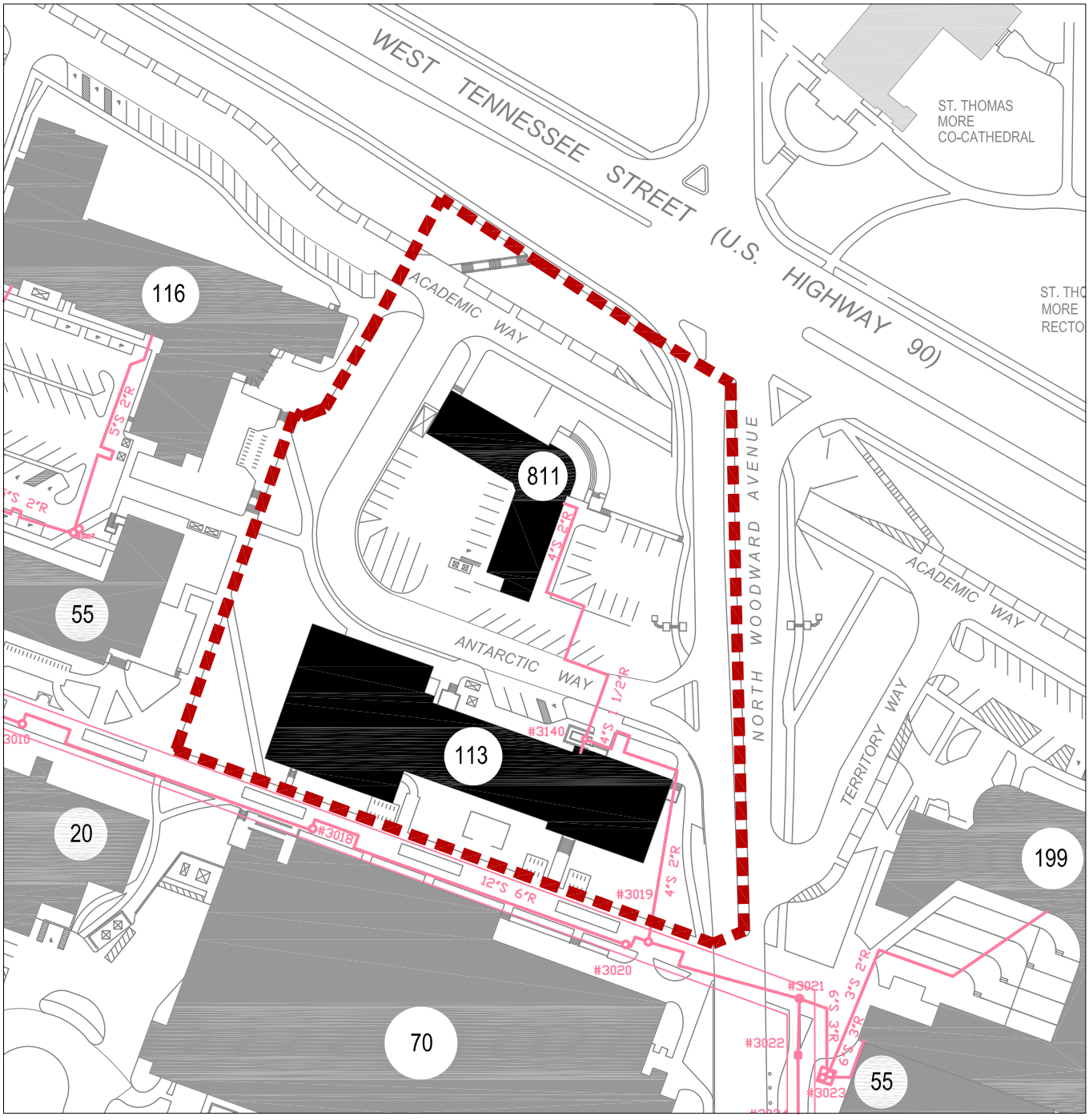
5. LIVE OAK - Has extensive dead wood, poor foliage density, has conks on major limbs (evidence of internal decay).

6. LIVE OAK - Has full dense canopy, some small amount of dead wood, a few conks visible on some limbs, has a fair form.

Exhibit 3
3.1 to 3.7

Site Utilities

This Exhibit contains illustrations that identify the locations of existing site utilities and Telecommunications.



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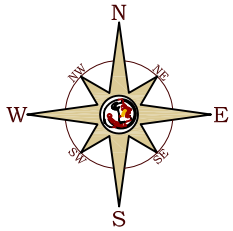
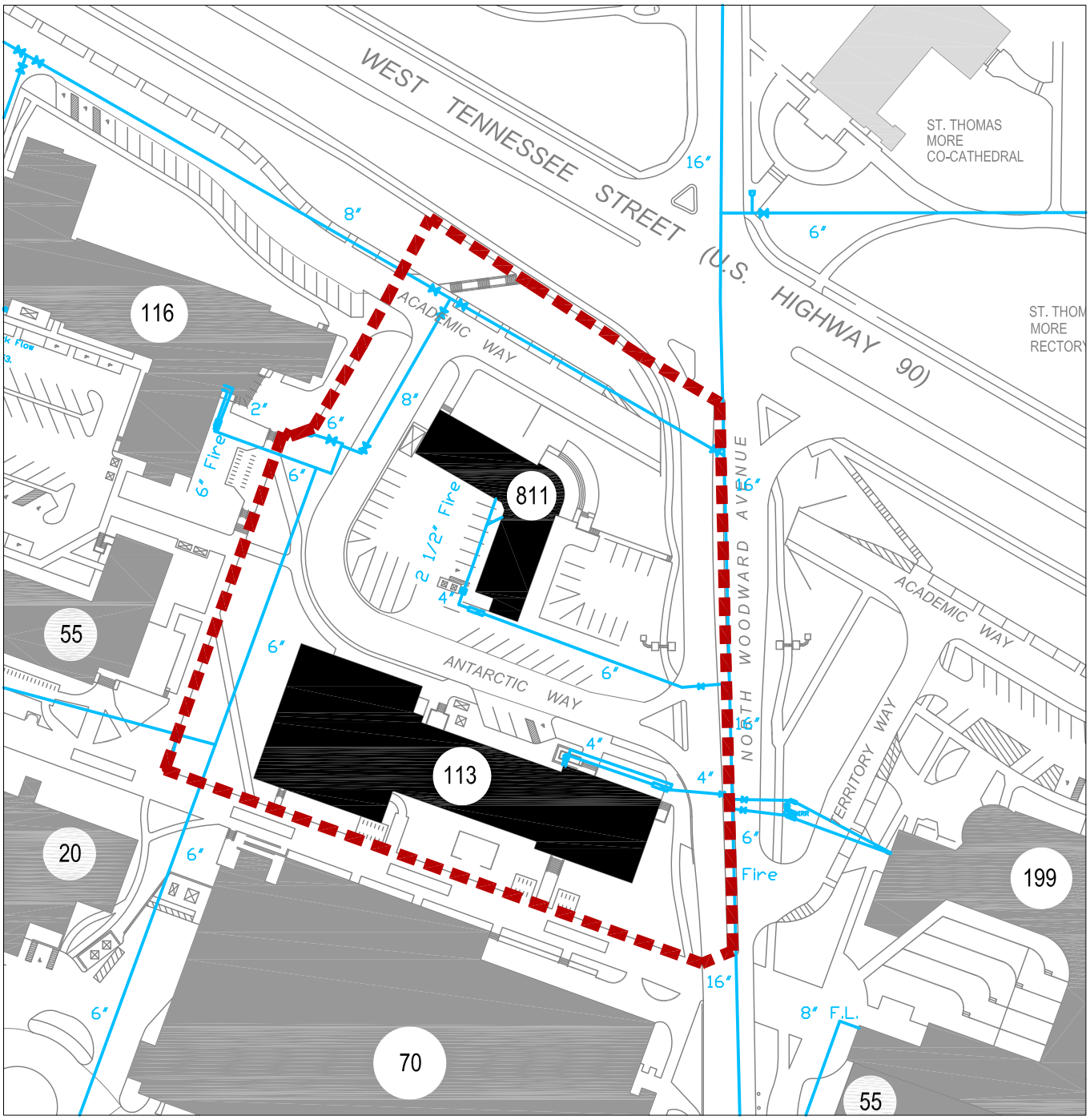
116 LOVE BUILDING
193 CRENSHAW BUILDING - UNION
199 POST OFFICE BUILDING - UNION
811 GUNTER BUILDING

EXHIBIT 3 -1. Steam





20 DIRAC SCIENCE LIBRARY
55 CAROTHERS HALL
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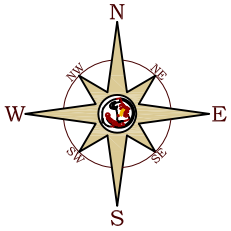
116 LOVE BUILDING
193 CRENSHAW BUILDING - UNION
199 POST OFFICE BUILDING - UNION
811 GUNTER BUILDING

EXHIBIT 3 - 2. Potable Water



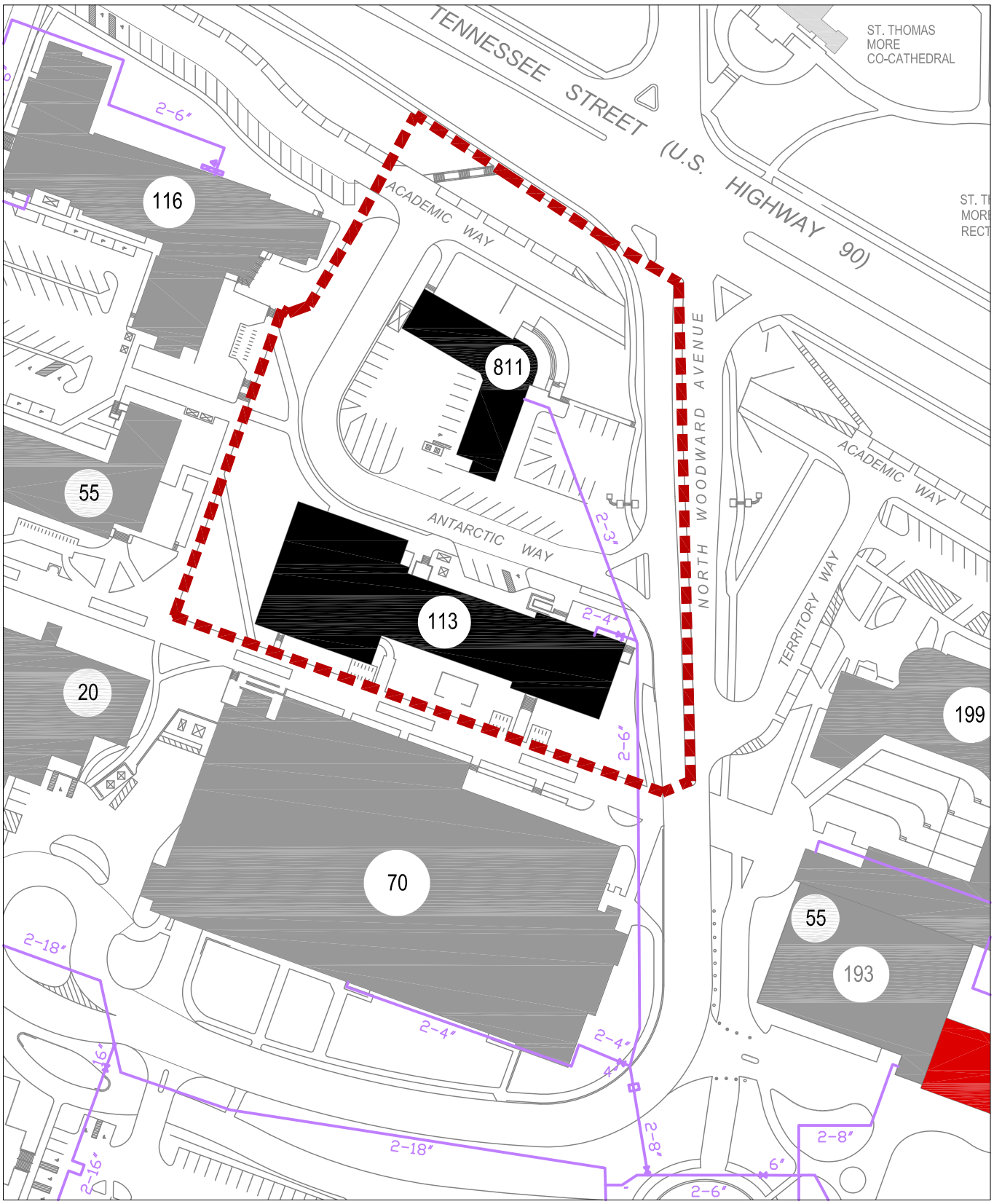
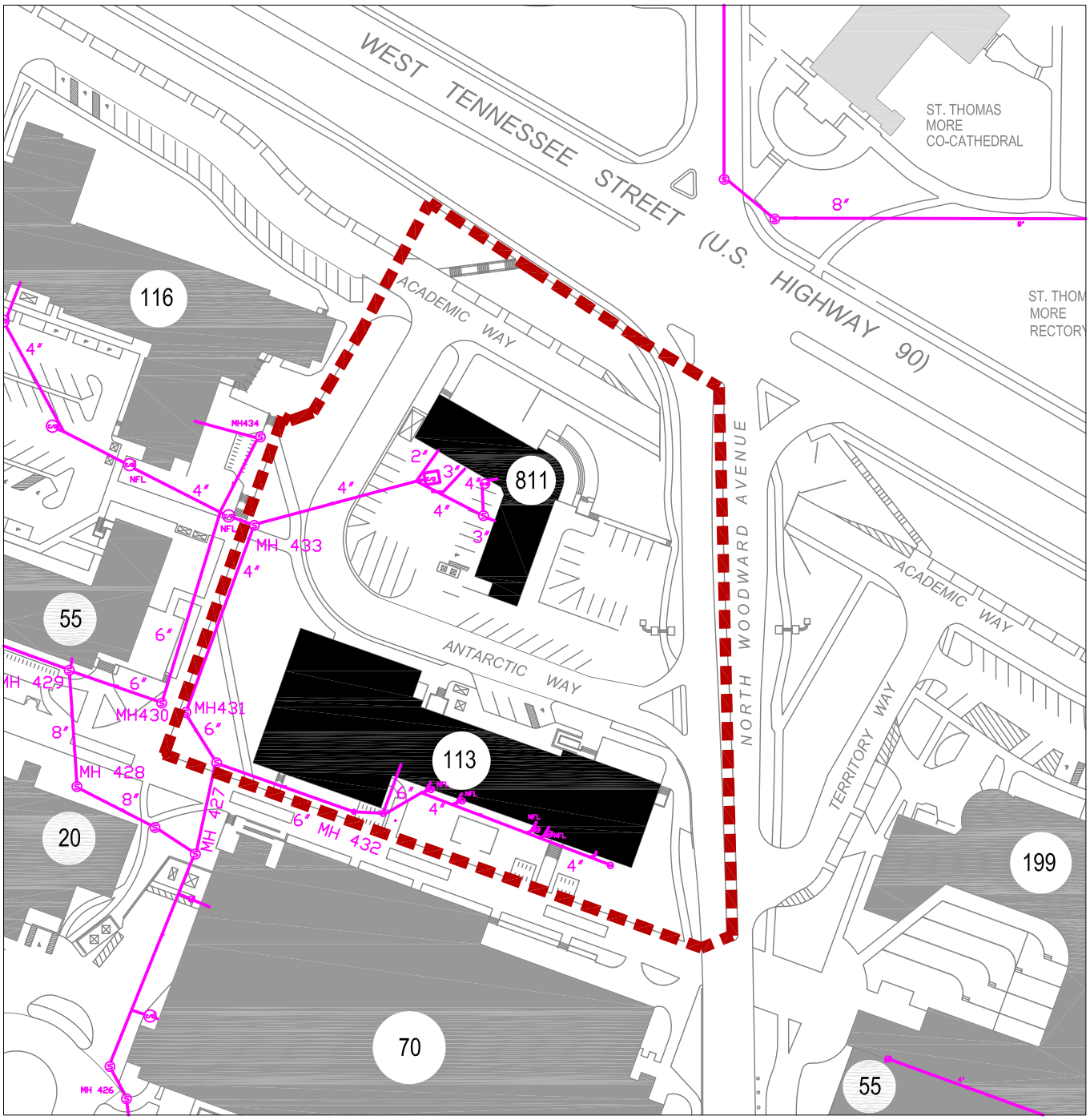


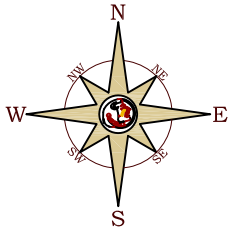
EXHIBIT 3 - 3. Chilled Water

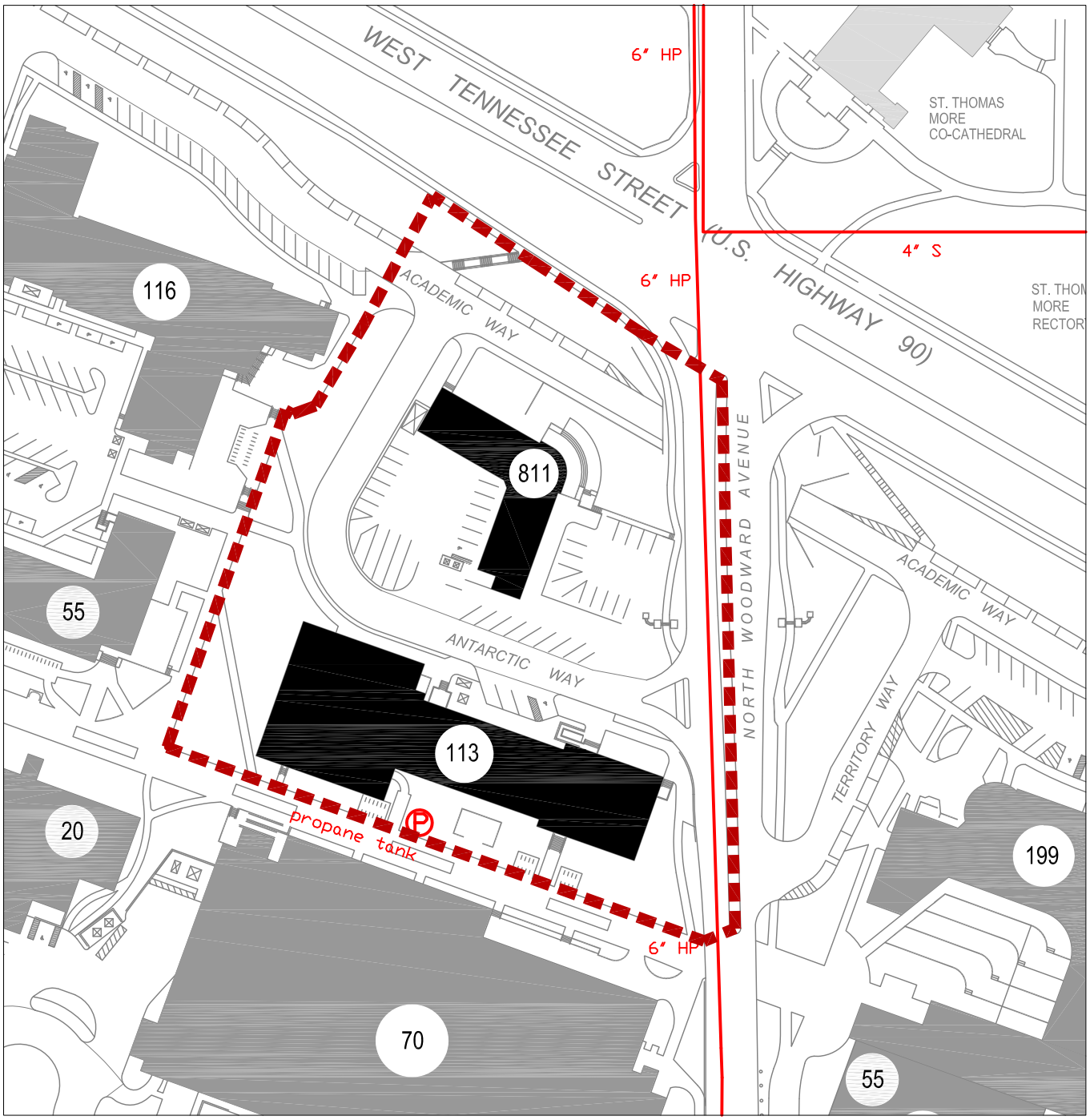
20 DIRAC SCIENCE LIBRARY
70 PARKING GARAGE No. 1
116 LOVE BUILDING
199 POST OFFICE BUILDING - UNION
55 CAROTHERS HALL
113 CARRAWAY BUILDING
193 CRENSHAW BUILDING - UNION
811 GUNTER BUILDING



20 **DIRAC SCIENCE LIBRARY**
55 **CAROTHERS HALL**
70 **PARKING GARAGE No. 1**
113 **CARRAWAY BUILDING**
116 **LOVE BUILDING**
193 **CRENSHAW BUILDING - UNION**
199 **POST OFFICE BUILDING - UNION**
811 **GUNTER BUILDING**

EXHIBIT 3 - 4. Sanitary Sewer





20 DIRAC SCIENCE LIBRARY
55 CAROTHERS HALL
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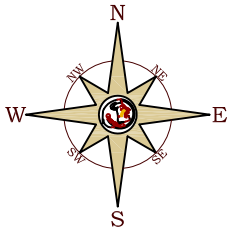
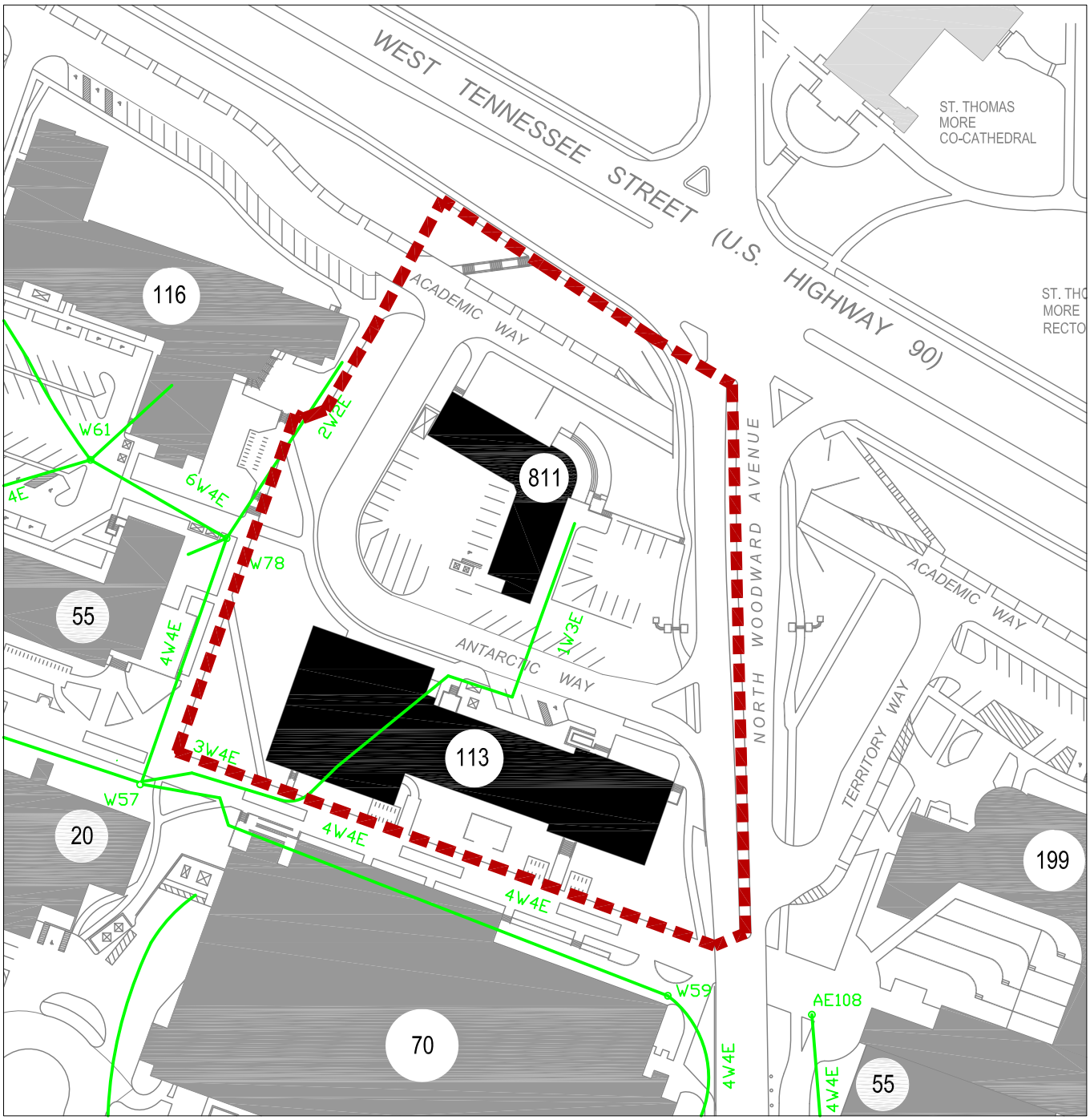
116 LOVE BUILDING
193 CRENSHAW BUILDING - UNION
199 POST OFFICE BUILDING - UNION
811 GUNTER BUILDING

EXHIBIT 3 - 5. Natural Gas





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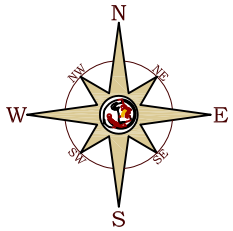
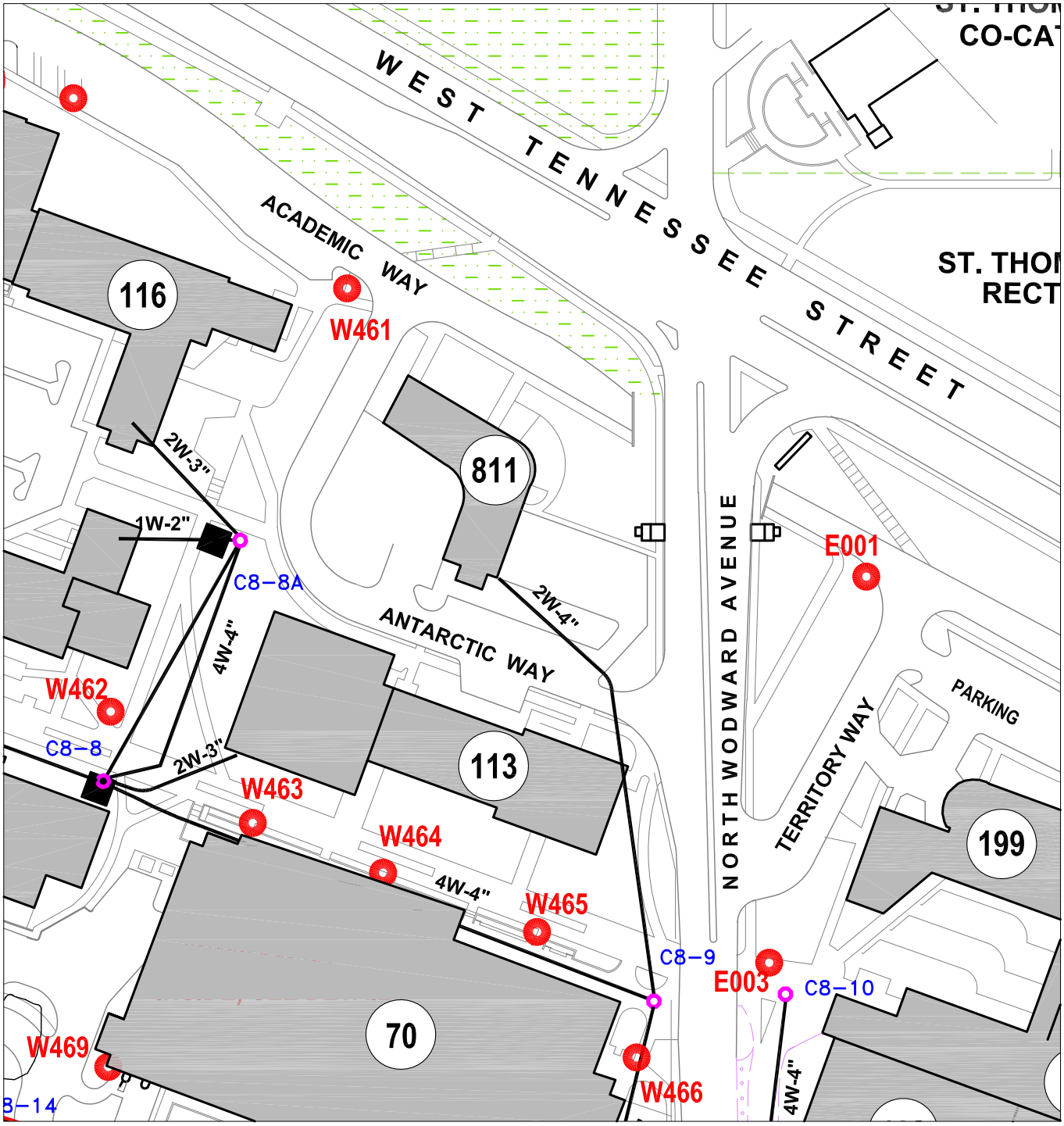
116 LOVE BUILDING
193 CRENSHAW BUILDING - UNION
199 POST OFFICE BUILDING - UNION
811 GUNTER BUILDING

EXHIBIT 3 - 6. Electric





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199 POST OFFICE BUILDING - UNION
811 GUNTER BUILDING

EXHIBIT 3 - 7. Telecommunications

Exhibit 4

Space Summary

This Exhibit contains a copy of the Space Summary for this project.

EOAS Space Summary

Total Build Out (Phases 1 and 2 Combined)

Space Number	Room Use Code	Space Name	Seats	NSF / Seat	NASF	Quantity of Rooms or Spaces	Total Net Area	Net to Gross Factor	Total Gross Area	Phase One: Quantity of Rooms or Spaces	Phase One: Total Net	Phase One: Net to Gross Factor	Phase One: Total Gross Area	Phase Two: Quantity of Rooms or Spaces	Phase Two: Total Net	Phase Two: Net to Gross Factor	Phase Two: Total Gross Area
		Assembly Spaces: Shared per floor or building; or Dedicated to Specific Unit;															
		Classroom & Support															
C-1	110	Classroom	200	20	4,000	1	4,000	1.65	6,600	1	4,000	1.65	6,600	0	0	1.65	-
C-2	110	Classroom	100	22	2,200	1	2,200	1.65	3,630	1	2,200	1.65	3,630	0	0	1.65	-
C-3	110	Classroom	80	22	1,760	1	1,760	1.65	2,904	1	1,760	1.65	2,904	0	0	1.65	-
C-4	110	Classroom	60	22	1,320	1	1,320	1.65	2,178	1	1,320	1.65	2,178	0	0	1.65	-
-	610	Auditorium	400	19	7,600	1	7,600	1.2	9,120	0	0	1.2	-	1	7,600	1.2	9,120
-	110	Classroom	70	22	1,540	1	1,540	1.65	2,541	0	0	1.65	-	1	1,540	1.65	2,541
		Teaching Labs															
T-1-2	210	GLY Teaching Labs	30	22	660	2	1,320	1.65	2,178	2	1,320	1.65	2,178	0	0	1.65	-
T-3	215	GLY Teaching Labs Storage (between GLY teaching Labs)	0	0	240	1	240	1.65	396	1	240	1.65	396	0	0	1.65	-
T-4	210	60 Seat - Oceanography Teaching Lab	60	24	1,440	1	1,440	1.65	2,376	1	1,440	1.65	2,376	0	0	1.65	-
T-5	215	Storage for 60 Seat Oceanography Teaching Lab	0	0	200	1	200	1.65	330	1	200	1.65	330	0	0	1.65	-
T-6	210	49 Seat Meteorology Teaching Lab	49	30	1,470	1	1,470	1.65	2,426	1	1,470	1.65	2,426	0	0	1.65	-
T-7	215	Service/Storage for 49 Seat Teaching Lab	0	0	350	1	350	1.65	578	1	350	1.65	578	0	0	1.65	-
T-8	210	MET Instrumentation/GFDI Teaching Lab	30	30	900	1	900	1.65	1,485	1	900	1.65	1,485	0	0	1.65	-
T-9	215	Instrumentation/GFDI Wet Storage	0	0	120	1	120	1.65	198	1	120	1.65	198	0	0	1.65	-
T-10	215	Instrumentation/GFDI Dry Storage	0	0	120	1	120	1.65	198	1	120	1.65	198	0	0	1.65	-
T-11-12	210	Microscope teaching labs (dedicated)	15	30	450	2	900	1.65	1,485	2	900	1.65	1,485	0	0	1.65	-
T-13	210	Computer Teaching Lab	30	30	900	1	900	1.65	1,485	1	900	1.65	1,485	0	0	1.65	-
T14	210	GIS Computer Teaching Laboratory	50	30	1,500	1	1,500	1.65	2,475	1	1,500	1.65	2,475	0	0	1.65	-
T-15	215	GIS Labs Storage	0	0	350	1	350	1.65	578	1	350	1.65	578	0	0	1.65	-
		Subtotal Classrooms and Teaching Labs					**28,230**		**43,160**		**19,090**		**31,499**		**9,140**		**11,661**
															28,230		**43,160**
		Gathering Rooms: Conference, Seminar, Meeting, Library, Lounge and Breakroom															
G-1-3	350	Small Conference Room	20	20	400	3	1,200	1.65	1,980	3	1,200	1.65	1,980	0	0	1.65	-
G-4-5	350	Large Conference Room	40	20	800	2	1,600	1.65	2,640	2	1,600	1.65	2,640	0	0	1.65	-
G-6	410	Combined Library/Reading Room	50	30	1,500	1	1,500	1.65	2,475	1	1,500	1.65	2,475	0	0	1.65	-
G-7	690	Faculty Lounge	50	12	600	1	600	1.65	990	1	600	1.65	990	0	0	1.65	-
G8-10	690	Undergraduate Student Lounge	35	12	420	3	1,260	1.65	2,079	1	420	1.65	693	2	840	1.65	1,386
G-11-13	690	Graduate Student Lounge	35	12	420	3	1,260	1.65	2,079	1	420	1.65	693	2	840	1.65	1,386
-	350	Seminar Room	100	20	2,000	1	2,000	1.65	3,300	0	0	1.65	-	1	2,000	1.65	3,300
-	350	Multipurpose Room	300	14	4,200	1	4,200	1.2	5,040	0	0	1.2	-	1	4,200	1.2	5,040
-	355	Chair + Table Storage for Multipurpose Room	0	0	200	1	200	1.65	330	0	0	1.65	-	1	200	1.65	330
-	690	Faculty/Staff Break and Gathering Area	20	25	500	3	1,500	1.65	2,475	0	0	1.65	-	3	1,500	1.65	2,475
-	620	Outreach Area	0	0	3,000	1	3,000	1.2	3,600	0	0	1.2	-	1	3,000	1.2	3,600
		Subtotal for Meeting Rooms					**18,320**		**26,988**		**5,740**		**9,471**		**12,580**		**17,517**
															18,320		**26,988**

EOAS Space Summary

Total Build Out (Phases 1 and 2 Combined)

Space Number	Room Use Code	Space Name	Seats	NSF / Seat	NASF	Quantity of Rooms or Spaces	Total Net Area	Net to Gross Factor	Total Gross Area	Phase One: Quantity of Rooms or Spaces	Phase One: Total Net	Phase One: Net to Gross Factor	Phase One: Total Gross Area	Phase Two: Quantity of Rooms or Spaces	Phase Two: Total Net	Phase Two: Net to Gross Factor	Phase Two: Total Gross Area
EAOS Administrative Needs: Does NOT inlcude GFDI, COAPS and NWS																	
		Administrative Staff & Ancillary Offices: Does NOT inlcude GFDI, COAPS and NWS															
A-1	310	Department Chair	1	200	200	1	200	1.65	330	1	200	1.65	330	0	0	1.65	-
A-2	310	Associate Chair	1	180	180	1	180	1.65	297	1	180	1.65	297	0	0	1.65	-
A-3-5	310	Graduate Studies Advising Staff	1	120	120	3	360	1.65	594	3	360	1.65	594	0	0	1.65	-
A-6-8	310	Undergraduate Studies Advising Staff	1	120	120	3	360	1.65	594	3	360	1.65	594	0	0	1.65	-
A-9	310	Exec. Assist./business managers	1	180	180	1	180	1.65	297	1	180	1.65	297	0	0	1.65	-
A-10	310	Admin. Specialist	1	120	120	1	120	1.65	198	1	120	1.65	198	0	0	1.65	-
A-11	310	Admin. Support Assistant	1	120	120	1	120	1.65	198	1	120	1.65	198	0	0	1.65	-
A-12	310	Accountant	1	120	120	1	120	1.65	198	1	120	1.65	198	0	0	1.65	-
A-13	310	Payroll accounting	1	120	120	1	120	1.65	198	1	120	1.65	198	0	0	1.65	-
A-14-18	310	Grants Compliance Associates	1	120	120	5	600	1.65	990	5	600	1.65	990	0	0	1.65	-
A-19	310	Webmaster	1	120	120	1	120	1.65	198	1	120	1.65	198	0	0	1.65	-
A-20-23	310	Information Technology (IT)	1	120	120	5	600	1.65	990	4	480	1.65	792	1	120	1.65	198
A-24	315	Computer Repair/Storage Lab	1	400	400	1	400	1.65	660	1	400	1.65	660	0	0	1.65	-
A-25	310	Receptionist	1	120	120	1	120	1.65	198	1	120	1.65	198	0	0	1.65	-
A-26	315	Waiting Area	10	15	150	1	150	1.65	248	1	150	1.65	248	0	0	1.65	-
A-27	310	Student Assistant	1	120	120	1	120	1.65	198	1	120	1.65	198	0	0	1.65	-
A-28	350	Conference Room	15	24	360	1	360	1.65	594	1	360	1.65	594	0	0	1.65	-
A-29	310	Outreach Office	1	120	120	1	120	1.65	198	1	120	1.65	198	0	0	1.65	-
A-30	315	Mailroom	0	0	200	1	200	1.65	330	1	200	1.65	330	0	0	1.65	-
A-31-33	315	Files	0	0	130	3	390	1.65	644	3	390	1.65	644	0	0	1.65	-
A-34	315	Supplies	0	0	130	1	130	1.65	215	1	130	1.65	215	0	0	1.65	-
A-35-36	315	Storage	0	0	250	2	500	1.65	825	2	500	1.65	825	0	0	1.65	-
		Subtotal for Admin. Staff & Ancillary Off.					**5,570**		**9,191**		**5,450**		**8,993**		**120**		**198**
															5,570		**9,191**
		Central EOAS Institute Space (includes Coastal Marine Lab, Emeritus, Adjunct professors)															
		Research Staff and Faculty Offices															
I-1-10	310	Faculty Offices (Coastal Marine lab, visitors)	1	90	90	10	900	1.65	1,485	10	900	1.65	1,485	0	0	1.65	-
I-11-20	310	Faculty Offices (Emeritus professors, visitors)	1	120	120	15	1,800	1.65	2,970	10	1,200	1.65	1,980	5	600	1.65	990
I-21-30	310	Students	1	60	60	20	1,200	1.65	1,980	10	600	1.65	990	10	600	1.65	990
I-31	350	Conference Room	18	20	360	2	720	1.65	1,188	1	360	1.65	594	1	360	1.65	594
-	310	Adjunct Professor Offices	1	120	120	4	480	1.65	792	0	0	1.65	-	4	480	1.65	792
		Subtotal for EOAS Iinstitute					**4,200**		**8,415**		**2,160**		**5,049**		**2,040**		**3,366**
															4,200		**8,415**

EOAS Space Summary

Total Build Out (Phases 1 and 2 Combined)

Space Number	Room Use Code	Space Name	Seats	NSF / Seat	NASF	Quantity of Rooms or Spaces	Total Net Area	Net to Gross Factor	Total Gross Area	Phase One: Quantity of Rooms or Spaces	Phase One: Total Net	Phase One: Net to Gross Factor	Phase One: Total Gross Area	Phase Two: Quantity of Rooms or Spaces	Phase Two: Total Net	Phase Two: Net to Gross Factor	Phase Two: Total Gross Area
		EOAS Service and Other Building Needs															
		Other Building Needs - Conditioned Space															
S-1	710	Server/Cold Room: comp. clusters + servers	0	0	1000	1	1,000	1.65	1,650	1	1,000	1.65	1,650	0	0	1.65	-
S-2	710	Server/Cold Room: comp. clusters + servers	0	0	1000	1	1,000	1.65	1,650	1	1,000	1.65	1,650	0	0	1.65	-
S-3-7	715	Networking closets/access ?	0	0	35	8	280	1.65	462	5	175	1.65	289	3	105	1.65	173
S-8-13	315	Printers/copy Rooms	0	0	180	9	1,620	1.65	2,673	6	1,080	1.65	1,782	3	540	1.65	891
S-14-23	XXX	Custodial Closet with sink 2 each floor	0	0	50	16	800	1.65	1,320	10	500	1.65	825	6	300	1.65	495
S-24	XXX	Ground Floor Custodial Storage	0	0	225	1	225	1.65	371	1	225	1.65	371	0	0	1.65	-
S-25	315	Building Services Break Room	6	25	150	1	150	1.65	248	1	150	1.65	248	0	0	1.65	-
S-26	215	Hangar	0	0	3000	1	3,000	1.65	4,950	1	3,000	1.65	4,950	0	0	1.65	-
S-27	215	Current Meter Facility	0	0	1200	1	1,200	1.65	1,980	1	1,200	1.65	1,980	0	0	1.65	-
S-28	215	Electronics Lab (Work Area)	0	0	300	1	300	1.65	495	1	300	1.65	495	0	0	1.65	-
S-29	720	Machine Shop	0	0	1200	1	1,200	1.65	1,980	1	1,200	1.65	1,980	0	0	1.65	-
S-30	720	Wood Shop	0	0	1000	1	1,000	1.65	1,650	1	1,000	1.65	1,650	0	0	1.65	-
S-31	720	Shop Storage	0	0	250	1	250	1.65	413	1	250	1.65	413	0	0	1.65	-
S-32	310	Shop Staff	3	120	360	1	360	1.65	594	1	360	1.65	594	0	0	1.65	-
		Subtotal for Other Bldg. Needs - Conditionned Space					**12,385**		**20,435**		**11,440**		**18,876**		**945**		**1,559**
															12,385		**20,435**
		Non-Conditioned Interior Space															
N-1	740	Radar Truck parking bay and service area	0	0	1250	1	1,250	1.65	2,063	1	1,250	1.65	2,063	0	0	1.65	-
-	745	Helium Storage	0	0	200	1	200	1.65	330	0	0	1.65	-	1	200	1.65	330
		Exterior Space															
-	YYY	Generator UPS for building											-				-
-	YYY	Dedicated Generator with Fuel Source Below											-				-
-	725	Outdoor Secure Storage											-				-
X-1	725	Loading Dock/Staging Area	0	0	1400	1	1,400	1.65	2,310	1	1,400	1.65	2,310	0	0	1.65	-
-	725	Loading Dock Access											-				-
-	740	4 Vehicles											-				-
-	740	8 Vehicles											-				-
-	740	1 Van											-				-
-	740	22 Dedicated Parking Spaces											-				-
		Rooftop Space															
R-1	225	Rooftop MET Staging Area	0	0	500	1	500	1.65	825	1	500	1.65	825	0	0	1.65	-
R-2	225	Rooftop observation facility	0	0	200	1	200	1.65	330	1	200	1.65	330	0	0	1.65	-
		Subtotal for Other Bldg. Needs-Non-Conditioned					**3,550**		**5,858**		**3,350**		**5,528**		**200**		**330**
															3,550		**5,858**

EOAS Space Summary

Total Build Out (Phases 1 and 2 Combined)

Space Number	Room Use Code	Space Name	Seats	NSF / Seat	NASF	Quantity of Rooms or Spaces	Total Net Area	Net to Gross Factor	Total Gross Area	Phase One: Quantity of Rooms or Spaces	Phase One: Total Net	Phase One: Net to Gross Factor	Phase One: Total Gross Area	Phase Two: Quantity of Rooms or Spaces	Phase Two: Total Net	Phase Two: Net to Gross Factor	Phase Two: Total Gross Area
		Geology															
		Research Staff and Faculty Offices															
GLY-1-9	310	Faculty	1	180	180	**14**	2,520	1.65	4,158	**9**	1,620	1.65	2,673	**5**	900	1.65	1,485
GLY-10-13	310	Research Staff Offices	1	120	120	**4**	480	1.65	792	**4**	480	1.65	792	**0**	0	1.65	-
GLY-14-16	310	Postdoc Offices	1	90	90	**3**	270	1.65	446	**3**	270	1.65	446	**0**	0	1.65	-
GLY-17-67	310	Graduate Student Space	1	60	60	**60**	3,600	1.65	5,940	**50**	3,000	1.65	4,950	**10**	600	1.65	990
		Research Labs															
GLY-68	250	Mineral separation Lab (common)	1	400	400	**1**	400	1.65	660	**1**	400	1.65	660	**0**	0	1.65	-
GLY-69	250	Sample preparation (crushing) (common)	1	400	400	**1**	400	1.65	660	**1**	400	1.65	660	**0**	0	1.65	-
GLY-70	250	Sample preparation (saws) (coomon)	1	200	200	**1**	200	1.65	330	**1**	200	1.65	330	**0**	0	1.65	-
GLY-71	250	Thin Section Microscopy Lab (common)	1	300	300	**1**	300	1.65	495	**1**	300	1.65	495	**0**	0	1.65	-
GLY-72	255	Sample storage (common)	1	400	400	**1**	400	1.65	660	**1**	400	1.65	660	**0**	0	1.65	-
GLY-73-77	250	Laboratory space -Wet	1	400	400	**8**	3,200	1.65	5,280	**5**	2,000	1.65	3,300	**3**	1,200	1.65	1,980
GLY-78-82	250	Laboratory space - Dry	1	400	400	**8**	3,200	1.65	5,280	**5**	2,000	1.65	3,300	**3**	1,200	1.65	1,980
GLY-83-88	250	Laboratory space -General	1	400	400	**8**	3,200	1.65	5,280	**5**	2,000	1.65	3,300	**3**	1,200	1.65	1,980
		AMGRF															
-	255	Existing 35 degree Cold Storage	1	5025	5025	**1**	5,025	1.65	8,291	**0**	0	1.65	-	**1**	5,025	1.65	8,291
-	255	Existing -20 degree Cold Storage	1	449	449	**1**	449	1.65	741	**0**	0	1.65	-	**1**	449	1.65	741
-	250	Exist Laboratory	1	870	870	**1**	870	1.65	1,436	**0**	0	1.65	-	**1**	870	1.65	1,436
-	250	Exist Laboratory	1	588	588	**1**	588	1.65	970	**0**	0	1.65	-	**1**	588	1.65	970
-	255	Expanded cold storage	1	7500	7500	**1**	7,500	1.65	12,375	**0**	0	1.65	-	**1**	7,500	1.65	12,375
-	310	Curator Office	1	180	180	**2**	360	1.65	594	**0**	0	1.65	-	**2**	360	1.65	594
-	310	Student space	1	60	60	**5**	300	1.65	495	**0**	0	1.65	-	**5**	300	1.65	495
-	410	Library and outreach	1	3000	3000	**1**	3,000	1.65	4,950	**0**	0	1.65	-	**1**	3,000	1.65	4,950
-	310	Core Lab and Visiting Scientists Space	1	3000	3000	**2**	6,000	1.65	9,900	**0**	0	1.65	-	**2**	6,000	1.65	9,900
		Geochemistry															
		Research Staff and Faculty Offices															
GCE1-5	310	Faculty Offices	1	180	180	**5**	900	1.65	1,485	**5**	900	1.65	1,485	**0**	0	1.65	-
-	310	Research Staff Offices	1	120	120	**4**	480	1.65	792	**0**	0	1.65	-	**4**	480	1.65	792
-	310	Postdoc Offices	1	90	90	**3**	270	1.65	446	**0**	0	1.65	-	**3**	270	1.65	446
-	310	Graduate Student Space	1	60	60	**15**	900	1.65	1,485	**0**	0	1.65	-	**15**	900	1.65	1,485
		Research Labs															
-	255	Clean Lab service	1	800	800	**1**	800	1.65	1,320	**0**	0	1.65	-	**1**	800	1.65	1,320
-	255	Clean Lab service	1	175	175	**1**	175	1.65	289	**0**	0	1.65	-	**1**	175	1.65	289
-	250	Instrument lab	1	1800	1800	**1**	1,800	1.65	2,970	**0**	0	1.65	-	**1**	1,800	1.65	2,970
-	250	Chemistry labs	1	600	600	**4**	2,400	1.65	3,960	**0**	0	1.65	-	**4**	2,400	1.65	3,960
-	250	General Lab	1	300	300	**2**	600	1.65	990	**0**	0	1.65	-	**2**	600	1.65	990
-	255	Storage	1	400	400	**1**	400	1.65	660	**0**	0	1.65	-	**1**	400	1.65	660
		Subtotal for Geology/Geochemistry					**50,987**		**84,129**		**13,970**		**23,051**		**37,017**		**61,078**
															50,987		**84,129**

EOAS Space Summary

Total Build Out (Phases 1 and 2 Combined)

Space Number	Room Use Code	Space Name	Seats	NSF / Seat	NASF	Quantity of Rooms or Spaces	Total Net Area	Net to Gross Factor	Total Gross Area	Phase One: Quantity of Rooms or Spaces	Phase One: Total Net	Phase One: Net to Gross Factor	Phase One: Total Gross Area	Phase Two: Quantity of Rooms or Spaces	Phase Two: Total Net	Phase Two: Net to Gross Factor	Phase Two: Total Gross Area
		Oceanography (General)															
		Aquatic Environmental Science															
OC-1-5	310	Students (AqEnvSci)	1	60	60	**10**	600	1.65	990	**5**	300	1.65	495	**5**	300	1.65	495
		Biological Oceanography (OCB)															
		Research Staff and Faculty Offices															
OCB-1-5	310	Faculty Offices	1	180	180	**7**	1,260	1.65	2,079	**5**	900	1.65	1,485	**2**	360	1.65	594
OCB-6-10	310	Postdoc Offices	1	90	90	**7**	630	1.65	1,040	**5**	450	1.65	743	**2**	180	1.65	297
OCB-11-25	310	Student Space	1	60	60	**21**	1,260	1.65	2,079	**15**	900	1.65	1,485	**6**	360	1.65	594
OCB-26-30	310	Research Staff/Research Faculty	1	120	120	**5**	600	1.65	990	**5**	600	1.65	990	**0**	0	1.65	-
		Research Labs															
OCB-31-35	250	Wet Lab	1	400	400	**7**	2,800	1.65	4,620	**5**	2,000	1.65	3,300	**2**	800	1.65	1,320
OCB-36-40	250	Dry Lab	1	400	400	**7**	2,800	1.65	4,620	**5**	2,000	1.65	3,300	**2**	800	1.65	1,320
OCB-41-45	250	General Lab	1	400	400	**7**	2,800	1.65	4,620	**5**	2,000	1.65	3,300	**2**	800	1.65	1,320
		Common Equipment Labs															
OCB-46	250	Autoclave / Freeze	1	180	180	**1**	180	1.65	297	**1**	180	1.65	297	**0**	0	1.65	-
OCB-47	250	Muffle Furnace	1	180	180	**1**	180	1.65	297	**1**	180	1.65	297	**0**	0	1.65	-
OCB-48-49	250	Environmental chambers	1	180	180	**2**	360	1.65	594	**2**	360	1.65	594	**0**	0	1.65	-
OCB-50	250	Radioactive work room	1	180	180	**1**	180	1.65	297	**1**	180	1.65	297	**0**	0	1.65	-
OCB-51	250	Specimen Room	1	180	180	**1**	180	1.65	297	**1**	180	1.65	297	**0**	0	1.65	-
OCB-52	250	Solvent Room	1	180	180	**1**	180	1.65	297	**1**	180	1.65	297	**0**	0	1.65	-
OCB-53	255	Chemical storage,	1	180	180	**1**	180	1.65	297	**1**	180	1.65	297	**0**	0	1.65	-
OCB-54	250	Freezer Room	1	300	300	**1**	300	1.65	495	**1**	300	1.65	495	**0**	0	1.65	-
OCB-55	250	Aquarium Room	1	180	180	**1**	180	1.65	297	**1**	180	1.65	297	**0**	0	1.65	-

EOAS Space Summary

Total Build Out (Phases 1 and 2 Combined)

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		Chemical Oceanography															
		Research Staff and Faculty Offices															
OCC-1-4	310	Faculty	1	180	180	**6**	1,080	1.65	1,782	**4**	720	1.65	1,188	**2**	360	1.65	594
OCC-5-8	310	Postdoc Offices	1	90	90	**6**	540	1.65	891	**4**	360	1.65	594	**2**	180	1.65	297
OCC-9-20	310	Student Space	1	60	60	**25**	1,500	1.65	2,475	**12**	720	1.65	1,188	**13**	780	1.65	1,287
OCC-21-24	310	Research Staff/Research Faculty	1	120	120	**4**	480	1.65	792	**4**	480	1.65	792	**0**	0	1.65	-
		Research Labs															
OCC-25-28	250	Wet Lab	1	400	400	**8**	3,200	1.65	5,280	**4**	1,600	1.65	2,640	**4**	1,600	1.65	2,640
OCC-29-32	250	Dry Lab	1	400	400	**8**	3,200	1.65	5,280	**4**	1,600	1.65	2,640	**4**	1,600	1.65	2,640
OCC-33-36	250	General Lab	1	400	400	**8**	3,200	1.65	5,280	**4**	1,600	1.65	2,640	**4**	1,600	1.65	2,640
		Common Equipment Labs															
OCC-37	255	Washroom	1	180	180	**1**	180	1.65	297	**1**	180	1.65	297	**0**	0	1.65	-
OCC-38	255	Chemical Storage	1	180	180	**1**	180	1.65	297	**1**	180	1.65	297	**0**	0	1.65	-
OCC-39	255	Solvents	1	180	180	**1**	180	1.65	297	**1**	180	1.65	297	**0**	0	1.65	-
OCC-40	255	Freezer	1	300	300	**1**	300	1.65	495	**1**	300	1.65	495	**0**	0	1.65	-
OCC-41	255	Radioactive	1	180	180	**1**	180	1.65	297	**1**	180	1.65	297	**0**	0	1.65	-
OCC-42	255	Weighing Room	1	180	180	**1**	180	1.65	297	**1**	180	1.65	297	**0**	0	1.65	-
OCC-43	250	Rooftop Lab	1	400	400	**1**	400	1.65	660	**1**	400	1.65	660	**0**	0	1.65	-
		Physical Oceanography															
		Research Staff and Faculty Offices															
OCP-1-6	310	Faculty	1	180	180	**8**	1,440	1.65	2,376	**6**	1,080	1.65	1,782	**2**	360	1.65	594
OCP-7-24	310	Student Offices	1	60	60	**24**	1,440	1.65	2,376	**18**	1,080	1.65	1,782	**6**	360	1.65	594
OCP-25-30	310	Postdoc Offices	1	90	90	**8**	720	1.65	1,188	**6**	540	1.65	891	**2**	180	1.65	297
OCP-31-36	310	Research Staff	1	120	120	**8**	960	1.65	1,584	**6**	720	1.65	1,188	**2**	240	1.65	396
OCP-37-41	310	Research Faculty	1	120	120	**7**	840	1.65	1,386	**5**	600	1.65	990	**2**	240	1.65	396
		Research Labs															
OCP42-43	250	Observational Wet Lab	1	400	400	**3**	1,200	1.65	1,980	**2**	800	1.65	1,320	**1**	400	1.65	660
OCP-44-45	250	Observational Dry Lab	1	400	400	**3**	1,200	1.65	1,980	**2**	800	1.65	1,320	**1**	400	1.65	660
OCP-46-47	250	Observational General Lab	1	400	400	**3**	1,200	1.65	1,980	**2**	800	1.65	1,320	**1**	400	1.65	660
		Subtotal for Oceanography:					**38,470**		**63,476**		**26,170**		**43,181**		**12,300**		**20,295**
															38,470		**63,476**

EOAS Space Summary

Total Build Out (Phases 1 and 2 Combined)

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		Geophysical Fluid Dynamics															
		Research Staff and Faculty Offices															
-	310	Faculty Offices	1	180	180	**3**	540	1.65	891	**0**	0	1.65	-	**3**	540	1.65	891
-	310	Student Space	1	60	60	**10**	600	1.65	990	**0**	0	1.65	-	**10**	600	1.65	990
-	310	Research Staff Offices	1	120	120	**4**	480	1.65	792	**0**	0	1.65	-	**4**	480	1.65	792
-	315	Office Service	1	175	175	**2**	350	1.65	578	**0**	0	1.65	-	**2**	350	1.65	578
-	310	Grants Compliance Associate	1	120	120	**1**	120	1.65	198	**0**	0	1.65	-	**1**	120	1.65	198
-	310	GFDI Admin. Staff	1	120	120	**3**	360	1.65	594	**0**	0	1.65	-	**3**	360	1.65	594
		Research Labs															
-	250	Research Lab (Annulus)	1	750	750	**1**	750	1.65	1,238	**0**	0	1.65	-	**1**	750	1.65	1,238
-	250	Research Lab (Laser)	1	400	400	**1**	400	1.65	660	**0**	0	1.65	-	**1**	400	1.65	660
-	250	Research Lab (Computer)	1	400	400	**1**	400	1.65	660	**0**	0	1.65	-	**1**	400	1.65	660
-	250	Shared Research Space-Flume	1	3600	3600	**1**	3,600	1.65	5,940	**0**	0	1.65	-	**1**	3,600	1.65	5,940
-	250	Shared Research Space-Multi user	1	1800	1800	**1**	1,800	1.65	2,970	**0**	0	1.65	-	**1**	1,800	1.65	2,970
-	255	Control Room-Annulus	1	150	150	**1**	150	1.65	248	**0**	0	1.65	-	**1**	150	1.65	248
-	255	Chemical Storage	1	100	100	**1**	100	1.65	165	**0**	0	1.65	-	**1**	100	1.65	165
-	255	Dark Room	1	100	100	**2**	200	1.65	330	**0**	0	1.65	-	**2**	200	1.65	330
		Subtotal for GFDI					**9,850**		**16,253**		**-**		**-**		**9,850**		**16,253**
		Meteorology															
		Research Staff and Faculty Offices															
MET-1-17	310	Faculty	1	180	180	**21**	3,780	1.65	6,237	**17**	3,060	1.65	5,049	**4**	720	1.65	1,188
MET-18-22	310	Research Staff Offices	1	120	120	**10**	1,200	1.65	1,980	**5**	600	1.65	990	**5**	600	1.65	990
MET23-27	310	Post-docs	1	90	90	**10**	900	1.65	1,485	**5**	450	1.65	743	**5**	450	1.65	743
MET-28-32	310	Research Faculty	1	120	120	**10**	1,200	1.65	1,980	**5**	600	1.65	990	**5**	600	1.65	990
MET-33-40	310	Faculty Research Lab (w/ student off. sp. below)	1	400	400	**10**	4,000	1.65	6,600	**8**	3,200	1.65	5,280	**2**	800	1.65	1,320
MET-41-143	310	Student Space--Supports Faculty Research	1	60	60	**144**	8,640	1.65	14,256	**102**	6,120	1.65	10,098	**42**	2,520	1.65	4,158
MET-144	310	Undergraduate Computer Laboratory	25	20	500	**1**	500	1.65	825	**1**	500	1.65	825	**0**	0	1.65	-
MET-145	310	TA Consultation Office	1	180	180	**1**	180	1.65	297	**1**	180	1.65	297	**0**	0	1.65	-
MET-146	315	Map Monitor Display -Common Area	1	400	400	**1**	400	1.65	660	**1**	400	1.65	660	**0**	0	1.65	-
MET-147	310	Weather Station Manager	1	180	180	**1**	180	1.65	297	**1**	180	1.65	297	**0**	0	1.65	-
MET-148	255	Experiment Prep Lab	1	400	400	**1**	400	1.65	660	**1**	400	1.65	660	**0**	0	1.65	-
MET-149	250	Chemsitry Lab	1	400	400	**1**	400	1.65	660	**1**	400	1.65	660	**0**	0	1.65	-
		Weathercasters TV Studio															
MET-150	225	Control Room	1	120	120	**1**	120	1.65	198	**1**	120	1.65	198	**0**	0	1.65	-
MET-151	225	Changing Room	1	100	100	**1**	100	1.65	165	**1**	100	1.65	165	**0**	0	1.65	-
MET-152	225	Editing Room	1	120	120	**1**	120	1.65	198	**1**	120	1.65	198	**0**	0	1.65	-
MET-153	220	Main Studio	1	400	400	**1**	400	1.65	660	**1**	400	1.65	660	**0**	0	1.65	-
MET-154	220	Studio Desk	1	200	200	**1**	200	1.65	330	**1**	200	1.65	330	**0**	0	1.65	-
MET-155	315	Office Service / Break	1	60	60	**1**	60	1.65	99	**1**	60	1.65	99	**0**	0	1.65	-
		Subtotal for Meteorology					**22,780**		**37,587**		**17,090**		**28,199**		**5,690**		**9,389**
															22,780		**37,587**

EOAS Space Summary

Total Build Out (Phases 1 and 2 Combined)

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		National Weather Service															
		Research Staff and Faculty Offices															
-	315	Reception Waiting	1	110	110	1	110	1.65	182	0	0	1.65	-	1	110	1.65	182
-	310	Receptionist	1	100	100	1	100	1.65	165	0	0	1.65	-	1	100	1.65	165
-	350	Conference Room	1	650	650	1	650	1.65	1,073	0	0	1.65	-	1	650	1.65	1,073
-	315	Mail Room	1	130	130	1	130	1.65	215	0	0	1.65	-	1	130	1.65	215
-	315	Supplies	1	130	130	1	130	1.65	215	0	0	1.65	-	1	130	1.65	215
-	650	Break Room	1	250	250	1	250	1.65	413	0	0	1.65	-	1	250	1.65	413
-	310	Large Offices	1	160	160	1	160	1.65	264	0	0	1.65	-	1	160	1.65	264
-	310	Small Office	1	110	110	4	440	1.65	726	0	0	1.65	-	4	440	1.65	726
-	315	Coat Closets	1	15	15	2	30	1.65	50	0	0	1.65	-	2	30	1.65	50
		Research Labs															
-	250	Weather Observation	1	1400	1400	1	1,400	1.65	2,310	0	0	1.65	-	1	1,400	1.65	2,310
-	250	Elec./Tech Systems	1	1600	1600	1	1,600	1.65	2,640	0	0	1.65	-	1	1,600	1.65	2,640
-	250	Server Room	1	710	710	1	710	1.65	1,172	0	0	1.65	-	1	710	1.65	1,172
-	250	Balloon Launch	1	100	100	1	100	1.65	165	0	0	1.65	-	1	100	1.65	165
-	250	Balloon Launch Storage	1	100	100	1	100	1.65	165	0	0	1.65	-	1	100	1.65	165
-	250	General Storage	1	1000	1000	1	1,000	1.65	1,650	0	0	1.65	-	1	1,000	1.65	1,650
		Subtotal for National Weather Service					**6,910**		**11,402**		**-**		**-**		**6,910**		**11,402**
															6,910		**11,402**
		COAPS															
		Staff and Ancillary Offices															
COA-1-8	315	Faculty Additional Space Double Doors	1	50	50	8	400	1.65	660	8	400	1.65	660	0	0	1.65	-
COA-9-12	310	Visitor Office	1	120	120	8	960	1.65	1,584	4	480	1.65	792	4	480	1.65	792
COA-13-19	310	Post-docs	1	90	90	10	900	1.65	1,485	7	630	1.65	1,040	3	270	1.65	446
COA-20-35	310	Research Faculty	1	120	120	25	3,000	1.65	4,950	15	1,800	1.65	2,970	10	1,200	1.65	1,980
COA-36-43	310	Research Staff	1	120	120	11	1,320	1.65	2,178	8	960	1.65	1,584	3	360	1.65	594
COA-44-54	310	Adminstration	1	120	120	11	1,320	1.65	2,178	11	1,320	1.65	2,178	0	0	1.65	-
COA-55-56	310	Systems Administrators	1	120	120	2	240	1.65	396	2	240	1.65	396	0	0	1.65	-
COA-57-58	310	Climate Center (Office)	1	120	120	3	360	1.65	594	2	240	1.65	396	1	120	1.65	198
COA-59	310	Director	1	200	200	1	200	1.65	330	1	200	1.65	330	0	0	1.65	-
COA-60	310	Assistant to the Director	1	180	180	1	180	1.65	297	1	180	1.65	297	0	0	1.65	-
COA-61	350	Large Conference Room	50	20	1000	1	1,000	1.65	1,650	1	1,000	1.65	1,650	0	0	1.65	-
COA-62	350	Small Conference Room	25	20	500	1	500	1.65	825	1	500	1.65	825	0	0	1.65	-
COA-63	315	Office Storage	1	500	500	1	500	1.65	825	1	500	1.65	825	0	0	1.65	-
COA-64	350	Computer Lab (Not a Teaching Space)	1	500	500	1	500	1.65	825	1	500	1.65	825	0	0	1.65	-
-	310	Students (included in MET and OCE)	30	60	1800	0	-	1.65	-	0	0	1.65	-	0	0	1.65	-
		Subtotal for COAPS					**11,380**		**18,777**		**8,950**		**14,768**		**2,430**		**4,010**
															11,380		**18,777**
		GRAND TOTAL					**212,632**		**345,668**		**113,410**		**188,612**		**99,222**		**157,056**

Exhibit 5

Room or Data Collection Sheets

This Exhibit contains individual Room or Space Data Sheets.

ROOM OR SPACE DATA COLLECTION SHEET

EAOS – CLASSROOM & SUPPORT

C-1 TO C-4

ROOM OR SPACE DATA SHEET

Space Number:	**C-1**
Space Name:	**Class III Classroom**
Quantity:	**1**
Department or Group:	**Common/Shared Space**

Number of Occupants (max):	200
Area and Min/Max Dimensions:	4,000 NASF
Ceiling Height:	See Class III Classroom Standard
Activity Description:	Classroom to be used by all units in EOAS
Adjacencies:	N/A
Proximities:	Common/Shared Core or other Common/Shared Spaces

Features:

Fenestration:	See Class III Classroom Standard
Floor Finish:	See Class III Classroom Standard
Wall Finish:	See Class III Classroom Standard
Ceiling Finish:	See Class III Classroom Standard
Acoustical:	See Class III Classroom Standard
Lighting:	See Class III Classroom Standard
Other:	

System and Utility Requirements:

Data / Voice:	See Class III Classroom Standard; wireless internet
Audio Visual:	See Class III Classroom Standard
Distance Learning:	N/A
Ventilation / Exhaust:	See Class III Classroom Standard
Temperature:	See Class III Classroom Standard
Humidity:	See Class III Classroom Standard
Piped Services:	N/A
Electrical:	See Class III Classroom Standard; provide laptop charging stations
Security:	Swipe Card; also see Class III Classroom Standard

Furnishings and Equipment:

See Class III Classroom Standard

ROOM OR SPACE DATA SHEET

Space Number:	**C-2**
Space Name:	**Class II Classroom**
Quantity:	**1**
Department or Group:	**Common/Shared Space**

Number of Occupants (max):	99
Area and Min/Max Dimensions:	2,200 NASF
Ceiling Height:	See Class II Classroom Standard
Activity Description:	Classroom to be used by all units in EOAS
Adjacencies:	N/A
Proximities:	Common/Shared Core or other Common/Shared Spaces

Features:

Fenestration:	See Class II Classroom Standard
Floor Finish:	See Class II Classroom Standard
Wall Finish:	See Class II Classroom Standard
Ceiling Finish:	See Class II Classroom Standard
Acoustical:	See Class II Classroom Standard
Lighting:	See Class II Classroom Standard
Other:	

System and Utility Requirements:

Data / Voice:	See Class II Classroom Standard; wireless internet
Audio Visual:	See Class III Classroom Standard
Distance Learning:	N/A
Ventilation / Exhaust:	See Class II Classroom Standard
Temperature:	See Class II Classroom Standard
Humidity:	See Class II Classroom Standard
Piped Services:	N/A
Electrical:	See Class II Classroom Standard; provide laptop charging stations
Security:	Swipe Card; also see Class II Classroom Standard

Furnishings and Equipment:

See Class II Classroom Standard

ROOM OR SPACE DATA SHEET

Space Number:	**C-3**
Space Name:	**Class II Classroom**
Quantity:	**1**
Department or Group:	**Common/Shared Space**

Number of Occupants (max):	80
Area and Min/Max Dimensions:	1,760 NASF
Ceiling Height:	See Class II Classroom Standard
Activity Description:	Classroom to be used by all units in EOAS
Adjacencies:	N/A
Proximities:	Common/Shared Core or other Common/Shared Spaces

Features:

Fenestration:	See Class II Classroom Standard
Floor Finish:	See Class II Classroom Standard
Wall Finish:	See Class II Classroom Standard
Ceiling Finish:	See Class II Classroom Standard
Acoustical:	See Class II Classroom Standard
Lighting:	See Class II Classroom Standard
Other:	

System and Utility Requirements:

Data / Voice:	See Class II Classroom Standard; wireless internet
Audio Visual:	See Class III Classroom Standard
Distance Learning:	N/A
Ventilation / Exhaust:	See Class II Classroom Standard
Temperature:	See Class II Classroom Standard
Humidity:	See Class II Classroom Standard
Piped Services:	N/A
Electrical:	See Class II Classroom Standard; provide laptop charging stations
Security:	Swipe Card; also see Class II Classroom Standard

Furnishings and Equipment:

See Class II Classroom Standard

ROOM OR SPACE DATA SHEET

Space Number: **C-4**
Space Name: **Class II Classroom**
Quantity: **1**
Department or Group: **Common/Shared Space**

Number of Occupants (max): 60
Area and Min/Max Dimensions: 1,320 NASF
Ceiling Height: See Class II Classroom Standard
Activity Description: Classroom to be used by all units in EOAS
Adjacencies: N/A
Proximities: Common/Shared Core or other Common/Shared Spaces

Features:
Fenestration: See Class II Classroom Standard
Floor Finish: See Class II Classroom Standard
Wall Finish: See Class II Classroom Standard
Ceiling Finish: See Class II Classroom Standard
Acoustical: See Class II Classroom Standard
Lighting: See Class II Classroom Standard
Other:

System and Utility Requirements:

Data / Voice: See Class II Classroom Standard; wireless internet
Audio Visual: See Class III Classroom Standard
Distance Learning: N/A
Ventilation / Exhaust: See Class II Classroom Standard
Temperature: See Class II Classroom Standard
Humidity: See Class II Classroom Standard
Piped Services: N/A
Electrical: See Class II Classroom Standard; provide laptop charging stations
Security: Swipe Card; also see Class II Classroom Standard

Furnishings and Equipment:

See Class II Classroom Standard

ROOM OR SPACE DATA COLLECTION SHEET

EAOS – TEACHING LABS

T-1 TO T-15

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **T-1-2**
Space Name: **GLY Teaching Labs**
Quantity: **2**
Program Area/Group: **Teaching Labs**

Number of Occupants: 30
Area & Min/Max Dim.: 660 NASF
Ceiling Height:
Activity Description: Used for teaching of the Lab sections of GLY1000
Adjacencies: T-3
Proximities:
Other:

Features:

Fenestration:
Floor Finish: Linoleum
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard/ability to dim
Other:

System and Utility Requirements:

Data / Voice: Wireless internet
Audio Visual: Projector and computer
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services: Fresh water, DI water, gas, compressed air
Electrical: Standard
Security: Standard for classroom

Furnishings and Equipment:

1	AV equipment at front of room	1	Projection screen
1	Bench with piped services in front of room		
5	Tables to fit 6 people		
30	chairs		
1	Large Whiteboard		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **T3**
Space Name: **GLY Teaching Lab storage**
Quantity: **1**
Program Area/Group: **Teaching Labs**

Number of Occupants: NA
Area & Min/Max Dim.: 660 NASF
Ceiling Height:
Activity Description: Used for storage of teaching materials
Adjacencies: T-1-2
Proximities:
Other:

Features:

Fenestration:
Floor Finish: Linoleum
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice:
Audio Visual:
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Standard
Security: Standard for classroom

Furnishings and Equipment:

1	Shelving on walls		
1	Large table in the middle of the room		
1	Cabinet with locks		
1	Whiteboard		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **T-4**
Space Name: **Oceanography Teaching Lab**
Quantity: **1**
Program Area/Group: **Oceanography**

Number of Occupants: 60
Area & Min/Max Dim.: 1,440 NSF
Ceiling Height:
Activity Description: Instruction/Teaching
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: Data for smart classroom
Audio Visual: Smart classroom, digital classroom equipment
Distance Learning: N/A
Ventilation / Exhaust: Standard for classroom use;
Temperature: Standard for classroom use
Humidity: Standard for classroom use
Piped Services: N/A
Electrical: Standard for classroom use;
Security: Swipe Card

Furnishings and Equipment:

	Whiteboard		
1	Projection Screen		
	Speakers		
1	LCD monitor		
1	Video projector		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **T-5**
Space Name: **Ocean Lab Storage**
Quantity: **1**
Program Area/Group: **OCN**

Number of Occupants: 0
Area & Min/Max Dim.: 200
Ceiling Height: 11 ft
Activity Description: storage
Adjacencies: Ocean teaching lab
Proximities: n/a
Other:

Features:

Fenestration: interior door
Floor Finish: standard tiled
Wall Finish: painted
Ceiling Finish: painted
Acoustical: none
Lighting: standard
Other:

System and Utility Requirements:

Data / Voice: none
Audio Visual: n/a
Distance Learning: n/a
Ventilation / Exhaust: none
Temperature: n/a
Humidity: n/a
Piped Services: none
Electrical: none
Security:

Furnishings and Equipment:

1	shelves		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **T-6**
Space Name: **Meteorology Teaching Lab**
Quantity: **1**
Program Area/Group: **Meteorology**

Number of Occupants: 49
Area & Min/Max Dim.: 1,470 NSF
Ceiling Height:
Activity Description: Instruction/Teaching
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: Data for smart classroom
Audio Visual: Smart classroom, digital classroom equipment
Distance Learning: N/A
Ventilation / Exhaust: Standard for classroom use;
Temperature: Standard for classroom use
Humidity: Standard for classroom use
Piped Services: N/A
Electrical: Standard for classroom use;
Security: Swipe Card

Furnishings and Equipment:

	Whiteboard		
1	Projection Screen		
	Speakers		
1	LCD monitor		
1	Video projector		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **T-7**
Space Name: **Service Storage**
Quantity: **1**
Program Area/Group: **MET**

Number of Occupants: 0
Area & Min/Max Dim.: 350
Ceiling Height: 11ft
Activity Description: storage
Adjacencies: Meteorology teaching lab
Proximities: n/a
Other:

Features:

Fenestration: interior door
Floor Finish: standard tiled
Wall Finish: painted
Ceiling Finish: painted
Acoustical: none
Lighting: standard
Other:

System and Utility Requirements:

Data / Voice: none
Audio Visual: n/a
Distance Learning: n/a
Ventilation / Exhaust: none
Temperature: n/a
Humidity: n/a
Piped Services: none
Electrical: none
Security:

Furnishings and Equipment:

1	shelves		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **T-8**
Space Name: **MET/GFDI Instruments and Fluids Teaching Lab**
Quantity: **1**
Program Area/Group: **MET/OCE**/GFDI

Number of Occupants: 25
Area & Min/Max Dim.: 900
Ceiling Height: 11ft
Activity Description: teaching
Adjacencies: Met & Ocean teaching labs
Proximities:
Other:

Features:

Fenestration: windows, interior doors
Floor Finish: standard tiled
Wall Finish: painted
Ceiling Finish: painted
Acoustical: none
Lighting: standard flush ceiling
Other:

System and Utility Requirements:

Data / Voice: Four gigabit internet ports and wireless for the lab
Audio Visual: n/a
Distance Learning: n/a
Ventilation / Exhaust: none
Temperature: n/a
Humidity: n/a
Piped Services: compressed air, water
Electrical: 120 V wall outlets and hanging power cords with 4, 2 outlet receptacles per lab table
Security:

Furnishings and Equipment:

5	Work benches approx. 3'x12'		a computer and printer equipped podium with projector and lighting controls.
25	stools		2 rotating tables and 3 other stations/tables with gear as per current GFDI lab
	Four gigabit internet ports on one wall		
	Wall to wall, Eight foot by four foot whiteboards on one wall		
	ceiling mounted video projector		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **T-9**
Space Name: **fluids storage**
Quantity: **1**
Program Area/Group: **MET/GFDI**

Number of Occupants: 0
Area & Min/Max Dim.: 120sqft
Ceiling Height: 11
Activity Description: storage
Adjacencies: fluids/instrument teaching lab
Proximities: other teaching labs
Other:

Features:

Fenestration: door
Floor Finish: standard tiled
Wall Finish: painted
Ceiling Finish: painted
Acoustical: none
Lighting: standard
Other:

System and Utility Requirements:

Data / Voice: none
Audio Visual: none
Distance Learning: n/a
Ventilation / Exhaust: n/a
Temperature: n/a
Humidity: n/a
Piped Services: none
Electrical: none
Security:

Furnishings and Equipment:

1	shelves		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **T-10**
Space Name: **Instrumentation/fluids lab dry storage**
Quantity: **1**
Program Area/Group: MET/GFDI

Number of Occupants: 0
Area & Min/Max Dim.: 120
Ceiling Height: 11
Activity Description: storage
Adjacencies: instrumentation/fluids teaching lab
Proximities: other teaching labs
Other:

Features:

Fenestration: interior door
Floor Finish: standard tiled
Wall Finish: painted
Ceiling Finish: painted
Acoustical: none
Lighting: standard
Other:

System and Utility Requirements:

Data / Voice: none
Audio Visual: n/a
Distance Learning: n/a
Ventilation / Exhaust: none
Temperature: n/a
Humidity: n/a
Piped Services: none
Electrical: One paired electrical outlet
Security:

Furnishings and Equipment:

1	lockable shelves -		
	At leas one lockable cabinet with approximate dimensions of 6' wide, 2' deep and approximately ceiling height		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **T-11-12**
Space Name: **Microscope teaching labs**
Quantity: **2**
Program Area/Group: **Teaching Labs**

Number of Occupants: 15
Area & Min/Max Dim.: 450 NASF
Ceiling Height:
Activity Description: Classroom dedicated to microscopic study of natural materials with polarized light microscopes
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Small window in door
Floor Finish: Standard
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard/ability to dim
Other:

System and Utility Requirements:

Data / Voice: Wireless internet
Audio Visual: Projector and computer, camera mounted on microscope display
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Double outlets at each station
Security: Swipe card access for students that take the lab

Furnishings and Equipment:

15	Height adjustable chairs	1	chair
1	White board	1	Desk for instructor
1	Projection screen		
15	Stations for students		
1	Wall unit with 15 lockers for microscopes		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: T-13
Space Name: GIS Computer Teaching Lab
Quantity: 1
Program Area/Group: EOAS

Number of Occupants: 30 students
Area & Min/Max Dim.: 900 NASF
Ceiling Height:
Activity Description: GIS Instruction with student computer stations
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: Data for smart classroom
Audio Visual: Smart classroom, digital classroom equipment
Distance Learning: N/A
Ventilation / Exhaust: Standard for classroom use; extra ventilation for computer heat load
Temperature: Standard for classroom use
Humidity: Standard for classroom use
Piped Services: N/A
Electrical: Standard for classroom student/computer station use; back-up power
Security: Swipe Card

Furnishings and Equipment:

	Whiteboard(s)	20	GIS Computer Work Stations
1	Projection Screen		
	Speakers		
1	LCD monitor		
1	Video projector		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **T-14**
Space Name: **GLY GIS lab**
Quantity: **1**
Program Area/Group: **Teaching labs**

Number of Occupants: 50
Area & Min/Max Dim.:
Ceiling Height: Standard
Activity Description: Hands-on lab to teaching GIS applications
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Small window in door
Floor Finish: Standard
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: 25 data / one voice, wireless
Audio Visual: Projector and computer
Distance Learning:
Ventilation / Exhaust: AC capacity for 50 persons and 50 desktops
Temperature:
Humidity:
Piped Services:
Electrical: 110V outlets at each computer station
Security:

Furnishings and Equipment:

50	Computer stations		
50	Chairs		
1	Projection screen		
1	White board		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **T-15**
Space Name: **GIS Lab Storage**
Quantity: **1**
Program Area/Group: **Geology**

Number of Occupants: 0
Area & Min/Max Dim.: 350 SF
Ceiling Height: standard
Activity Description: storage
Adjacencies: GIS support storage
Proximities: GIS Computer Teaching Lab labs
Other:

Features:

Fenestration: no
Floor Finish: standard
Wall Finish: painted standard
Ceiling Finish: standard
Acoustical: none
Lighting: standard
Other:

System and Utility Requirements:

Data / Voice: none
Audio Visual: none
Distance Learning: n/a
Ventilation / Exhaust: n/a
Temperature: n/a
Humidity: n/a
Piped Services: none
Electrical: standard
Security:

Furnishings and Equipment:

1	shelves		

ROOM OR SPACE DATA COLLECTION SHEET
EAOS – GATHERING ROOMS: CONFERENCE, SEMINAR, MEETING, LIBRARY, LOUNGE AND BREAKROOM

G-1 TO G-13

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **G-1-3**
Space Name: **Small Conference Room**
Quantity: **3**
Program Area/Group: **EOAS – Gathering Rooms**
Number of Occupants: 20
Area & Min/Max Dim.: 400 NASF
Ceiling Height: Standard
Activity Description: Group Meetings
Adjacencies: -
Proximities: -
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: Screen with projector
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Conference table for 20 chairs		
1	Conference telephone		
20	Chairs		
1	Projector Screen or Smart board		
1	Whiteboard		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **G-4-5**
Space Name: **Large Conference Room**
Quantity: **2**
Program Area/Group: **EOAS Gathering Rooms**

Number of Occupants: 40
Area & Min/Max Dim.: 800 NASF
Ceiling Height: Standard
Activity Description: Group Meetings
Adjacencies: -
Proximities: -
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: Screen with projector
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

	Table/tables for 40 chairs		
1	Conference telephone		
40	Chairs		
1	Projector Screen or Smart board		
1	Whiteboard		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **G-6**
Space Name: **Combines Library/Reading Rooms**
Quantity: **1**
Program Area/Group: **EOAS Gathering Rooms**

Number of Occupants: 50
Area & Min/Max Dim.: 1,500 NASF
Ceiling Height: Standard
Activity Description: Group Meetings
Adjacencies: -
Proximities: -
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: Screen with projector
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

	Table/tables for 50 chairs		
1	Conference telephone		
50	Chairs		
1	Projector Screen or Smart board		
1	Whiteboard		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **G-7**
Space Name: **Faculty Lounge**
Quantity: **1**
Program Area/Group: **EOAS Faculty Lounge**

Number of Occupants: 50
Area & Min/Max Dim.: 600 NASF
Ceiling Height: Standard
Activity Description: Faculty gathering
Adjacencies: Faculty Offices
Proximities: -
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: VCT
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard
Other: Wireless

System and Utility Requirements:

Data / Voice: wireless internet connection
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services: Drinking water
Electrical: Standard
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

	Table/tables for 50 chairs		
1	Cabinetry		
50	Chairs		
1	Microwave		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **G-8 - 10**
Space Name: **Undergraduate Student Lounge**
Quantity: **3**
Program Area/Group: **EOAS Undergraduate Student Lounge**

Number of Occupants: 35
Area & Min/Max Dim.: 420 NASF
Ceiling Height: Standard
Activity Description: Undergraduate student gathering
Adjacencies: -
Proximities: -
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: VCT
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard
Other: Wireless

System and Utility Requirements:

Data / Voice: wireless internet connection
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services: Drinking water
Electrical: Standard
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

	Table/tables for 50 chairs		
1	Cabinetry		
35	Chairs		
1	Microwave		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **G-11 - 13**
Space Name: **Graduate Student Lounge**
Quantity: **3**
Program Area/Group: **EOAS Graduate Student Lounge**

Number of Occupants: 35
Area & Min/Max Dim.: 420 NASF
Ceiling Height: Standard
Activity Description: Graduate student gathering
Adjacencies: -
Proximities: -
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: VCT
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard
Other: Wireless

System and Utility Requirements:

Data / Voice: wireless internet connection
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services: Drinking water
Electrical: Standard
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

	Table/tables for 50 chairs		
1	Cabinetry		
35	Chairs		
1	Microwave		

ROOM OR SPACE DATA COLLECTION SHEET

EAOS ADMINISTRATIVE NEEDS

A-1 TO A-36

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-1**
Space Name: **Department Chair**
Quantity: **1**
Program Area/Group: **EOAS Administration**

Number of Occupants: 1
Area & Min/Max Dim.: 200 NASF
Ceiling Height: 9 ft
Activity Description: Office + small meetings
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office Furniture	2	Flat panel monitors
4	Conference Table chairs	2	Lateral file cabinets
1	Small Conference Table	1	4-drawer file cabinet
5	Bookcases with seven shelves per bookcase	1	Whiteboard
1	Desktop computer workstation		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-2**
Space Name: **Associate Chair**
Quantity: **1**
Program Area/Group: **EOAS Administration**

Number of Occupants: 1
Area & Min/Max Dim.: 180 NASF
Ceiling Height: Standard
Activity Description: Office + small meetings
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office Furniture	2	Flat panel computer monitors
4	Conference Table chairs	1	4-drawer file cabinet
1	Small Conference Table	1	Whiteboard
5	Bookcases with seven shelves per bookcase		
1	Desktop computer workstation		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-3 - 5**
Space Name: **Graduate Studies Advising Staff**
Quantity: **3**
Program Area/Group: **EOAS Administration**

Number of Occupants: 1
Area & Min/Max Dim.: 120 NASF
Ceiling Height: 9 ft
Activity Description: Office
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office Furniture	4	4-drawer file cabinets
2	Guest Chairs		
2	Bookcases with six shelves per case		
1	Desktop computer		
1	Printer		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-6 - 8**
Space Name: **Undergraduate Studies Advising Staff**
Quantity: **3**
Program Area/Group: **EOAS Administrative**

Number of Occupants: 1
Area & Min/Max Dim.: 120 NASF
Ceiling Height: 9 ft
Activity Description: Office
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office Furniture	4	4-drawer file cabinets
2	Guest Chairs		
4	Bookcases with six shelves per case		
1	Desktop computer		
1	Printer		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-9**
Space Name: **Exec. Assist. / Office Administrator**
Quantity: **1**
Program Area/Group: **EOAS Administration**

Number of Occupants: 1
Area & Min/Max Dim.: 180 NASF
Ceiling Height: Standard
Activity Description: Office + small meetings
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office Furniture	3	Lateral file cabinets; 2 large and one small/medium
2	Guest chairs	1	Printer
4	Bookcases with six shelves per case		
1	Desktop computer		
1	Safe		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-10**
Space Name: **Exec. Assist. /business managers**
Quantity: **1**
Program Area/Group: **EOAS Administration; Admin. Specialist**

Number of Occupants: 1
Area & Min/Max Dim.: 120 NASF
Ceiling Height: Standard
Activity Description: Office
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office Furniture	2	Printers
2	Guest Chairs	1	File cabinet
4	Bookcases with six shelves per case		
1	Desktop computer		
1	Tall lateral file cabinet		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-11**
Space Name: **Exec. Assist. /business managers**
Quantity: **1**
Program Area/Group: **Admin. Support Assistant**

Number of Occupants: 1
Area & Min/Max Dim.: 120 NASF
Ceiling Height: Standard
Activity Description: Office
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office Furniture	2	4-drawer file cabinets
2	Guest Chairs		
2	Bookcases with 5 shelves per case		
1	Desktop computer		
1	Printer		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-12**
Space Name: **Accountant**
Quantity: **1**
Program Area/Group: **EOAS Administration**

Number of Occupants: 1
Area & Min/Max Dim.: 120 NASF
Ceiling Height: Standard
Activity Description: Office
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office Furniture	1	Lateral File Cabinet
2	Guest Chairs	1	4-drawer file cabinet
3	Bookcases with seven shelves per bookcase		
1	Desktop computer		
1	Printer		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-13**
Space Name: **Payroll accounting**
Quantity: **1**
Program Area/Group: **EOAS Administration**

Number of Occupants: 1
Area & Min/Max Dim.: 120 NASF
Ceiling Height: Standard
Activity Description: Office
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office Furniture		
2	Guest Chairs		
6	File Cabinets		
1	Desktop computer		
1	Printer		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-14 - 18**
Space Name: **Grants Compliance Associates**
Quantity: **5**
Program Area/Group: **EOAS Administration**

Number of Occupants: 1
Area & Min/Max Dim.: 120 NASF
Ceiling Height: Standard
Activity Description: Office
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office Furniture	3	File cabinets
2	Guest Chairs		
3	Bookcases with six shelves per case		
1	Desktop computer		
1	Printer		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-19**
Space Name: **Webmaster**
Quantity: **1**
Program Area/Group: **EOAS Administration**

Number of Occupants: 1
Area & Min/Max Dim.: 120 NASF
Ceiling Height: Standard
Activity Description: Office
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office Furniture	1	Lateral file cabinet
2	Guest Chairs	2	File cabinets
3	Bookcases with seven shelves per case	1	Printer
1	Desktop computer workstation		
2	Flat panel monitors		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-20 - 23**
Space Name: **Information Technology (IT)**
Quantity: **4**
Program Area/Group: **EOAS Administration**

Number of Occupants: 1
Area & Min/Max Dim.: 120 NASF
Ceiling Height: Standard
Activity Description: Office
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office Furniture	1	Whiteboard (with tray)
2	Guest Chairs		
2	Bookshelves		
1	Computer workstation, large screen dual monitor.		
1	Filing cabinet		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-24**
Space Name: **Computer Repair/Storage Lab**
Quantity: **1**
Program Area/Group: **EOAS Administration**

Number of Occupants: 1
Area & Min/Max Dim.: 400 NASF
Ceiling Height: Standard
Activity Description: Office
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Hard flooring (low static, no carpet)
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 8 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office Furniture	1	Small conference table (adequate for 4)
2	Guest Chairs		Storage cabinetry (disks, cables, parts, tools)
2	Bookshelves	1	Whiteboard (with tray)
1	Workbench	1	Corkboard
2	Workbench-height task chairs (non-rolling)		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-25**
Space Name: **Receptionist**
Quantity: **1**
Program Area/Group: **EOAS Administration**

Number of Occupants: 1
Area & Min/Max Dim.: 120 NASF
Ceiling Height: Standard
Activity Description: Office
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms.
Other:

Features:

Fenestration: windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection;
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office furniture		
1	Desktop computer		
1	Printer		
1	File Cabinet		
1	Bookcase with five shelves		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-26**
Space Name: **Waiting Area**
Quantity: **1**
Program Area/Group: **EOAS Administration**

Number of Occupants: 10
Area & Min/Max Dim.: 150 NASF – 15 sq ft per occupant
Ceiling Height: Standard
Activity Description: Office
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: windows
Floor Finish: carpet **(preferably carpet tile if possible)**
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other: **Pictures/Portraits**

System and Utility Requirements:

Data / Voice: 4 gigabit internet ports
Audio Visual:
Distance Learning:
Ventilation / Exhaust:
Temperature:
Humidity:
Piped Services:
Electrical:
Security:

Furnishings and Equipment:

4	Reception Chairs		
3	Small End Tables		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-27**
Space Name: **Student Assistant**
Quantity: **1**
Program Area/Group: **EOAS Administration**

Number of Occupants: 10
Area & Min/Max Dim.: 120 NASF
Ceiling Height: Standard
Activity Description: Office
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office furniture		
1	Desktop computer		
1	Phone		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-28**
Space Name: **Conference Room**
Quantity: **1**
Program Area/Group: **EOAS Administration**

Number of Occupants: 1
Area & Min/Max Dim.: 360 NASF
Ceiling Height: Standard
Activity Description: 15 person Meetings
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless; **Pictures/Portraits**

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: Screen with projector
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Conference table with 15 chairs		
1	Conference telephone		
15	Chairs		
1	Projector Screen or Smart board		
1	Whiteboard		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-29**
Space Name: **Outreach Office**
Quantity: **1**
Program Area/Group: **EOAS Administration**

Number of Occupants: 1
Area & Min/Max Dim.: 120 NASF
Ceiling Height: Standard
Activity Description: Outreach to community
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office Furniture	1	Whiteboard
2	Guest Chairs		
1	Bookshelves		
1	Desktop computer		
1	File Cabinet		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-30**
Space Name: **Mailroom**
Quantity: **1**
Program Area/Group: **EOAS Administration**

Number of Occupants: 1
Area & Min/Max Dim.: 200 NASF
Ceiling Height: Standard
Activity Description: mail and package distribution
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Office Furniture	2	Tables or small desks
2	Guest Chairs		
1	Mailroom shelving		
1	All-In-One Printer (Print, Copy, Scan, & Fax)		
2	Tall File Cabinets		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-31 - 33**
Space Name: **Files**
Quantity: **3**
Program Area/Group: **EOAS Administration**

Number of Occupants: 0
Area & Min/Max Dim.: 130 NASF
Ceiling Height: Standard
Activity Description: maintain department files
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection; 4 gigabit internet ports
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

12	File and/or Lateral Cabinets		
2	Chairs		
1	Table		
1	One Copier		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-34**
Space Name: **Supplies**
Quantity: **1**
Program Area/Group: **EOAS Administration**

Number of Occupants: 0
Area & Min/Max Dim.: 130 NASF
Ceiling Height: Standard
Activity Description: maintain office supplies
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: none
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Shelving		
25	Cabinets; upper and lower		
3	Hand trucks		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **A-35 - 36**
Space Name: **storage**
Quantity: **2**
Program Area/Group: **EOAS Administration**

Number of Occupants: 0
Area & Min/Max Dim.: 250 NASF
Ceiling Height: Standard
Activity Description: store necessary historic department files
Adjacencies: Business office
Proximities: Should be part of overall administrative office suite of rooms
Other:

Features:

Fenestration: Interior door with narrow door light, windows not necessary
Floor Finish: standard tile
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: none
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for storage use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door

Furnishings and Equipment:

15	Empty storage cabinets		
20	Shelving pieces		

ROOM OR SPACE DATA COLLECTION SHEET

EOAS – CENTRAL EOAS INSTITUTE SPACE

(INCLUDES COASTAL MARINE LAB, EMERITUS, ADJUNCT PROFESSORS)

I-1 TO I-31

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **I-1 to I-10**
Space Name: **Faculty Office**
Quantity: **10**
Program Area/Group: **Coastal Marine Lab visitors**

Number of Occupants: 1
Area & Min/Max Dim.: 90 NASF
Ceiling Height: Standard
Activity Description:
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Windows to outside
Floor Finish: Carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: Standard
Audio Visual: Phone
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Standard
Security: Standard key lock or card swipe

Furnishings and Equipment:

1	Desk	3	Bookcases
1	Desk chair	1	Standard desktop computer
3	Standard chairs	2	LCD 24″ Monitors
1	Eight foot by four foot whiteboard		
1	Three foot by two foot cork board		
1	File cabinets (four drawer)		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **I-11 to I-25**
Space Name: **Faculty Office**
Quantity: **15**
Program Area/Group: **Emeritus Professors and visitors**

Number of Occupants: 1
Area & Min/Max Dim.: 120 NASF
Ceiling Height: Standard
Activity Description:
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Windows to outside
Floor Finish: Carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: Standard
Audio Visual: Phone
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Standard
Security: Standard key lock or card swipe

Furnishings and Equipment:

1	Desk	3	Bookcases
1	Desk chair	1	Standard desktop computer
3	Standard chairs	2	LCD 24″ Monitors
1	Eight foot by four foot whiteboard		
1	Three foot by two foot cork board		
1	File cabinets (four drawer)		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **I-26 to I-45**
Space Name: **Students Office**
Quantity: **20**
Program Area/Group: **Emeritus Professors and visitors**

Number of Occupants: 1
Area & Min/Max Dim.: 60 NASF
Ceiling Height: Standard
Activity Description:
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Windows to outside
Floor Finish: Carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: Standard
Audio Visual: Phone
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Standard
Security: Standard key lock or card swipe

Furnishings and Equipment:

1	Desk		
1	Desk chair	1	Standard desktop computer
3	Standard chairs	2	LCD 24″ Monitors
1	Eight foot by four foot whiteboard		
1	Three foot by two foot cork board		
1	File cabinets (four drawer)		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **I-46 and I-47**
Space Name: **Conference Room**
Quantity: **2**
Program Area/Group: **Visiting group**

Number of Occupants: 18
Area & Min/Max Dim.: 360 NASF
Ceiling Height: Standard
Activity Description: 85 person Meetings
Adjacencies: Central Institute Offices
Proximities:
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: Standard
Audio Visual: Screen with projector
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:

1	Conference table with 18 chairs		
1	Conference telephone		
18	Chairs		
1	Projector Screen or Smart board		
1	Whiteboard		

ROOM OR SPACE DATA COLLECTION SHEET
EAOS – SERVICE AND OTHER BUILDING NEEDS

S-1 TO S-32

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **S-1**
Space Name: **Server/Cold Room: Clusters + servers**
Quantity: **1**
Program Area/Group: EOAS Service and other buildings

Number of Occupants: 0
Area & Min/Max Dim.: 2000
Ceiling Height: 8'
Activity Description: House computer clusters and servers
Adjacencies: Battery backup
Proximities: Loading dock + freight elevator
Other: Raised floor 2'; redundant cooling

Features:

Fenestration: None
Floor Finish: Raised tiles 2' x 2'
Wall Finish: Standard paint
Ceiling Finish: standard acoustic tiles
Acoustical: Insulated from the rest of the building
Lighting: Standard fluorescent
Other:

System and Utility Requirements:

Data / Voice: 10 or 100 Gig uplink, 128 ports network switch, 2 phones
Audio Visual: None
Distance Learning:
Ventilation / Exhaust: Specific to AC cooling of computers
Temperature: < 70°F
Humidity: controlled, less than 50%
Piped Services: yes, chilled water for HVAC
Electrical:60 to 80 KW
Security: Swipe cards + camera

Furnishings and Equipment:

2	Work benches		
2	Mobile computer terminal desks		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **S-2**
Space Name: **Server/Cold Room: Battery backup**
Quantity: **1**
Program Area/Group: EOAS Service and other buildings

Number of Occupants: 0
Area & Min/Max Dim.: 120
Ceiling Height: 8’
Activity Description: Battery backup for computers and clusters
Adjacencies: Server/Cold Room S1
Proximities:
Other: High cooling AC capacity

Features:

Fenestration: None
Floor Finish: Linoleum tiles
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard fluorescent
Other:

System and Utility Requirements:

Data / Voice: 2 data / 1 voice
Audio Visual: None
Distance Learning: None
Ventilation / Exhaust: Specific to battery backup
Temperature: <70°F
Humidity: controlled less than 70%
Piped Services: None
Electrical: 60 to 80Kw
Security: Swipe card

Furnishings and Equipment:

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **S-3-7**
Space Name: **Telecommunication room**
Quantity: **8 (or 4 – depends on floor superficies)**
Program Area/Group: EOAS Service

Number of Occupants: 0
Area & Min/Max Dim.: 70 sq. ft
Ceiling Height: 8'
Activity Description: House telecommunication switches
Adjacencies: Central
Proximities:
Other: ITS/OTC has the complete specs

Features:

Fenestration: None
Floor Finish: Linoleum tiles
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard fluorescent
Other:

System and Utility Requirements:

Data / Voice: 10/100 Gig switch, etc
Audio Visual: None
Distance Learning: None
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services: None
Electrical: High amperage outlets
Security: Standard

Furnishings and Equipment:

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **S-8-13**
Space Name: **Printer/Copy Rooms**
Quantity: **9**
Program Area/Group: EOAS Serviice

Number of Occupants: 0
Area & Min/Max Dim.: 180
Ceiling Height: 8'
Activity Description: House printers and copiers
Adjacencies:
Proximities: Central and evenly distributed among offices
Other:

Features:

Fenestration: None
Floor Finish: Linoleum tiles
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Fluorescent
Other:

System and Utility Requirements:

Data / Voice: 8 data, 2 voices
Audio Visual: None
Distance Learning: None
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services: None
Electrical: High amperage wall outlets
Security: Standard

Furnishings and Equipment:

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **S-14 to 23**
Space Name: **Custodial Closet**
Quantity: **16 (2 per floor)**
Program Area/Group: EOAS Service and other buildings

Number of Occupants: 0
Area & Min/Max Dim.: 50 NASF
Ceiling Height: 8'
Activity Description: Building maintenance
Adjacencies:
Proximities: One at each end of the building
Other:

Features:

Fenestration: None
Floor Finish: Standard
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: None
Audio Visual: None
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services: Floor sink
Electrical: Standard
Security: Standard

Furnishings and Equipment:

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **S-24**
Space Name: **Ground Floor Custodial Storage Closet**
Quantity: **1**
Program Area/Group: EOAS Service and other buildings

Number of Occupants: 0
Area & Min/Max Dim.: 225 NASF
Ceiling Height: 8’
Activity Description: Building maintenance
Adjacencies:
Proximities:
Other:

Features:

Fenestration: None
Floor Finish: Standard
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: None
Audio Visual: None
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services: Floor sink
Electrical: Standard
Security: Standard

Furnishings and Equipment:

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **S-25**
Space Name: **Building Services Break Room**
Quantity: **1**
Program Area/Group: EOAS Service and other buildings

Number of Occupants: 0
Area & Min/Max Dim.: 150 NASF
Ceiling Height: 8’
Activity Description: Building maintenance break room
Adjacencies:
Proximities:
Other:

Features:

Fenestration: None
Floor Finish: Standard
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: None
Audio Visual: None
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services: Floor sink
Electrical: Standard
Security: Standard

Furnishings and Equipment:

3	Tables		
6	Chairs		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **S-26**
Space Name: **Hangar - Marine Field Group**
Quantity: **1**
Program Area/Group: **MFG**

Number of Occupants: 2 + 4 visitors
Area & Min/Max Dim.: 3000 SF, 50/60
Ceiling Height: 12ft
Activity Description: Staging, assembly, fabrication
Adjacencies: Loading dock
Proximities: Shops
Other:

Features:

Fenestration: large doors to outside
Floor Finish: epoxy on concrete
Wall Finish: painted
Ceiling Finish: painted
Acoustical: none
Lighting: mounted flush on ceiling
Other:

System and Utility Requirements:

Data / Voice: internet
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: N/A
Temperature: N/A
Humidity: N/A
Piped Services: hot and cold water, compressed air, gas, large sink
Electrical: 120 V and 240 V outlets, high amp
Security:

Furnishings and Equipment:

1	I-beam lifting crane/winch through area mounted on ceiling extending out across loading dock		
1	Large “two-car” roller garage-style door		
1	4’x12’x12’ deep well in floor with heavy duty 2-ton rated cover, under I-beam		
2	Cabinets		
1	Large sink		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **S-27**
Space Name: **Marine Field Group**
Quantity: 1
Program Area/Group: **MFG**

Number of Occupants: 3
Area & Min/Max Dim.: 1200
Ceiling Height: 11
Activity Description: Interior work space
Adjacencies: MFG Hangar
Proximities: Shops
Other:

Features:

Fenestration: interior door, window to outside
Floor Finish: standard tiled
Wall Finish: standard
Ceiling Finish: open painted
Acoustical: none
Lighting: standard
Other: Cabinets, shelves

System and Utility Requirements:

Data / Voice: wireless intemet
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: none
Temperature: N/A
Humidity: N/A
Piped Services: water, compressed air
Electrical: ceiling power lines, backup power, data, 120/240 V outlets
Security:

Furnishings and Equipment:

1	closet	2	Large equipment storage shelves
3	stools	1	Hazmat storage closet (cleaning products)
1	4'x12' workbench with electrical outlets	1	Double basin sink
3	Bench-style work desk		
3	chair		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **S-28**
Space Name: **Electronics Lab**
Quantity: **1**
Program Area/Group: **MFG**

Number of Occupants: 1
Area & Min/Max Dim.: 300
Ceiling Height: standard
Activity Description: electronic testing and fabrication
Adjacencies: MFG office and hangar
Proximities: Shops
Other:

Features:

Fenestration: interior door, outside window
Floor Finish: standard tile
Wall Finish: painted
Ceiling Finish: open painted
Acoustical: none
Lighting: flush on ceiling
Other:

System and Utility Requirements:

Data / Voice: internet
Audio Visual: n/a
Distance Learning: n/a
Ventilation / Exhaust: fume hood
Temperature: n/a
Humidity: n/a
Piped Services: compressed gas
Electrical: 120V standard
Security:

Furnishings and Equipment:

2	Bench along 2 walls w/electrical power		
2	Cabinets above benches		
2	stools		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **S-29**
Space Name: **Machine Shop**
Quantity: **1**
Program Area/Group: **EOAS service**

Number of Occupants: 2
Area & Min/Max Dim.: 1200
Ceiling Height: 12
Activity Description: shop
Adjacencies: loading dock
Proximities: MFG
Other:

Features:

Fenestration: interior door, outside windows
Floor Finish: concrete painted
Wall Finish: painted
Ceiling Finish: open painted
Acoustical: none
Lighting: flush ceiling mount
Other:

System and Utility Requirements:

Data / Voice: internet
Audio Visual: n/a
Distance Learning: n/a
Ventilation / Exhaust: fume ventilation system
Temperature: n/a
Humidity: n/a
Piped Services: compressed air, gas, sink
Electrical: 120/240 for several large machines
Security:

Furnishings and Equipment:

2	stools		
1	Exhaust system (ex Kemper America)		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **S-30**
Space Name: **Wood Shop**
Quantity: **1**
Program Area/Group: **EOAS service**

Number of Occupants: 0
Area & Min/Max Dim.: 1000
Ceiling Height: 12ft
Activity Description: wood shop
Adjacencies: machine shop
Proximities: MFG
Other:

Features:

Fenestration: interior door
Floor Finish: concrete
Wall Finish: painted
Ceiling Finish: open painted
Acoustical: none
Lighting: flush ceiling mount
Other:

System and Utility Requirements:

Data / Voice: none
Audio Visual: n/a
Distance Learning: n/a
Ventilation / Exhaust: none
Temperature: n/a
Humidity: n/a
Piped Services: compressed air
Electrical: 120/240 for various machines
Security:

Furnishings and Equipment:

1	Wide shelves along one wall for stock		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **S-31**
Space Name: **Shop storage**
Quantity: **1**
Program Area/Group: **EOAS service**

Number of Occupants: 0
Area & Min/Max Dim.: 250
Ceiling Height: 12
Activity Description: storage
Adjacencies: shops
Proximities: MFG
Other:

Features:

Fenestration: none
Floor Finish: concrete
Wall Finish: painted
Ceiling Finish: painted
Acoustical: none
Lighting: ceiling
Other:

System and Utility Requirements:

Data / Voice: none
Audio Visual: n/a
Distance Learning: n/a
Ventilation / Exhaust: none
Temperature: n/a
Humidity: n/a
Piped Services: none
Electrical:
Security:

Furnishings and Equipment:

1	shelves		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **S-32**
Space Name: **Shop staff**
Quantity: **1**
Program Area/Group: **EOAS service**

Number of Occupants: 2
Area & Min/Max Dim.: 360
Ceiling Height: standard tiled
Activity Description: offices
Adjacencies: shops
Proximities: MFG
Other:

Features:

Fenestration: interior door, outside window
Floor Finish: concrete
Wall Finish: painted
Ceiling Finish: acoustical tile
Acoustical: ceiling tiles
Lighting: standard
Other:

System and Utility Requirements:

Data / Voice: internet
Audio Visual: n/a
Distance Learning: n/a
Ventilation / Exhaust: none
Temperature: n/a
Humidity: n/a
Piped Services: none
Electrical: 120 V
Security:

Furnishings and Equipment:

2	desks		
2	chairs		
2	Cabinets, bookshelves		

ROOM OR SPACE DATA COLLECTION SHEET

EAOS – NON-CONDITIONED INTERIOR SPACE

N-1

AND

R-1 AND R-2

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **N-1**
Space Name: **Radar Truck parking bay and service area**
Quantity: **1**
Program Area/Group: **Meteorology**

Number of Occupants: 1
Area & Min/Max Dim.: 1250 NSF
Ceiling Height: 20 feet – see below
Activity Description: Park and Service radar truck
Adjacencies: Electrical and other shops
Proximities:
Other:

Features:

Fenestration: 16 foot tall Bay door
Floor Finish: cement
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Shop
Other: Truck is 40 ft long x 7 ft wide; inside parking area must have at least 4ft behind for work access and to allow closing door; must have at least a 4 ft wide access to parking area on each side.Similarly there must be a sufficient length outside turnaround space for the vehicle.

System and Utility Requirements:

Data / Voice: Four gigabit internet ports and wifi
Audio Visual: Phone
Distance Learning:
Ventilation / Exhaust: Steady heating and cooling to room temperature and humidity such as one would have in a workshop environment.
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Six paired electrical outlets
Security: Standard key lock or card swipe to inside and outside

Furnishings and Equipment:

1	200 sq ft X 8 ft tall Storage area for tools and air tanks.t	1	Minimal Shop tools
1	6 x 6 ft workbench	1	Workstation and 24 in monitor
1	Shop desk and chair	1	B&W laser printer
1	Air compressor	1	
1	Battery charger	1	

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **R-1**
Space Name: **Rooftop MET Staging Area**
Quantity: **1**
Program Area/Group: **Meteorology**

Number of Occupants: 1
Area & Min/Max Dim.: 500 NSF
Ceiling Height: 9 ft
Activity Description: equipment testing and preparation for installation on roof
Adjacencies: Adjacent to and access to roof
Proximities: on top or on roof
Other:

Features:

Fenestration: Windows to outside; Ceiling chain or electrical lifted high bay door to roof
Floor Finish: cement
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Shop
Other: Hot and cold water with sink

System and Utility Requirements:

Data / Voice: Four gigabit internet ports and wifi
Audio Visual: Phone
Distance Learning:
Ventilation / Exhaust: Individual AC control
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Four paired electrical outlets
Cable feeds to rooftop
Security: Standard key lock or card swipe to inside and outside

Furnishings and Equipment:

1	~ 3 foot workbench top on 3 sides	1	8x4 ft whiteboard and 3x3 ft corkboard
1	3 sides with lockable cabinets below workbench and lockable cabinets above work to 7 ft.	1	Workstation and 24 in monitor
1	Shop desk and chair	1	B&W laser printer
1	Refrigerator and ice maker	1	Built-in tall file cabinet
1		1	

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **R-2**
Space Name: **Rooftop Observation facility**
Quantity: **1**
Program Area/Group: **Meteorology**

Number of Occupants: 1
Area & Min/Max Dim.: 200 NSF
Ceiling Height:
Activity Description: Meteorological Observations – routine and teaching
Adjacencies: Adjacent to staging area; adjacent to roof access door
Proximities: must be on roof
Other: Fenced or loosely enclosed pace about 10 ft x 20 ft on which there are 3 3 x 9 ft grated observation platforms elevated about 1 ft above the roof, on which are placed 4 ft tall wooden or plastic platforms spaced about 6 ft apart. There must be on roof walkways between the platforms and to the roof access doorway and R-1 Staging area. See Love building roof for current layout

Features:

Fenestration:
Floor Finish: roof top – see above
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Shop or external area lighting
Other: should be located at least 20 and preferably 30 ft away from any portion of the building that extends above the nominal roof top. See current installation on the Love building.

System and Utility Requirements:

Data / Voice: gigabit internet ports on each platform
Audio Visual:
Distance Learning:
Ventilation / Exhaust: none
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: two paired electrical outlets on each observation platform
Conduits from staging area for wiring to each observation platform
Security: Standard key lock or card swipe to staging area and roof access door;
since students in certain classes will have access to this facility, there must be some type of fencing to keep students away from the roof edge.

Furnishings and Equipment:

1	Replacements for meteorological instruments currently installed on Love building roof that cannot be moved		
1			
3			

ROOM OR SPACE DATA COLLECTION SHEET

EAOS GEOLOGY

GLY-1 TO GLY-88

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **GLY 1-9**
Space Name: **Faculty office**
Quantity: **9**
Program Area/Group: **Research staff and faculty office**

Number of Occupants: 1
Area & Min/Max Dim.: 180 NASF
Ceiling Height: Standard
Activity Description: Office and meeting with students
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Standard
Floor Finish: Carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard/ability to dim
Other:

System and Utility Requirements:

Data / Voice: Wireless internet
Audio Visual:
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Standard
Security: Standard for office

Furnishings and Equipment:

1	Office furniture (L-desk and chair)		
2	Bookshelves with 7 shelves		
2	Chairs		
2	Cabinets		
1	Whiteboard		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **GLY 10-13**
Space Name: **Research Staff Office**
Quantity: **4**
Program Area/Group: **Research staff and faculty office**

Number of Occupants: 1
Area & Min/Max Dim.: 120 NASF
Ceiling Height: Standard
Activity Description: Office
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Standard
Floor Finish: Carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard/ability to dim
Other:

System and Utility Requirements:

Data / Voice: Wireless internet
Audio Visual:
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Standard
Security: Standard for office

Furnishings and Equipment:

1	Office furniture (L-desk and chair)		
1	Bookshelves with 7 shelves		
1	Chairs		
1	Cabinets		
1	Whiteboard		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **GLY 14-16**
Space Name: **Post-doc Office**
Quantity: **3**
Program Area/Group: **Research staff and faculty office**

Number of Occupants: 1
Area & Min/Max Dim.: 90 NASF
Ceiling Height: Standard
Activity Description: Office
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Standard
Floor Finish: Carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard/ability to dim
Other:

System and Utility Requirements:

Data / Voice: Wireless internet
Audio Visual:
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Standard
Security: Standard for office

Furnishings and Equipment:

1	Office furniture (L-desk and chair)		
1	Bookshelves with 7 shelves		
1	Chair		
1	Cabinets		
1	Whiteboard		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **GLY 17-67**
Space Name: **Research Staff Office**
Quantity: **50**
Program Area/Group: **Research staff and faculty office**

Number of Occupants: 1
Area & Min/Max Dim.: 60 NASF
Ceiling Height: Standard
Activity Description: Office
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Standard
Floor Finish: Carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard/ability to dim
Other:

System and Utility Requirements:

Data / Voice: Wireless internet
Audio Visual:
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Standard
Security: Standard for office

Furnishings and Equipment:

1	Office furniture (desk and chair)		
1	Bookshelf		
1	Cabinet		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **GLY-68**
Space Name: **Mineral separation lab**
Quantity: **1**
Program Area/Group: **Geology**

Number of Occupants: N/A
Area & Min/Max Dim.: 400 NASF
Ceiling Height: Standard
Activity Description: Bench space for work with rock samples, coarse crushed material. Some reagents are toxic
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Small window in door
Floor Finish:
Wall Finish:
Ceiling Finish: Non-perforated clean room ceiling tiles
Acoustical:
Lighting: Plastic housing enclosed
Other:

System and Utility Requirements:

Data / Voice: 1
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: One 4' wide hood, 4 flexible snorkels above bench
Temperature:
Humidity:
Piped Services: Fresh water, DI water, compressed air, acid resistant waste lines, floor drain
Electrical: 110V and 208V outlets
Security:

Furnishings and Equipment:

	Bench space for instrument set up		
	Storage space for flammable materials		
	Storage for corrosive materials		
	Open shelving above the benches		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **GLY-69**
Space Name: **Sample preparation rock crushing**
Quantity: **1**
Program Area/Group: **Geology**

Number of Occupants: NA
Area & Min/Max Dim.: 400 NASF
Ceiling Height:
Activity Description: Used for crushing rocks by one or two persons at a time. Some of the crushing creates a significant amount of dust, operations are loud. Ear protection is needed.
Adjacencies: next to T-70
Proximities:
Other:

Features:

Fenestration: Small window in door
Floor Finish: Painted concrete
Wall Finish:
Ceiling Finish:
Acoustical: Noisy operation needs sound proofing
Lighting:
Other:

System and Utility Requirements:

Data / Voice: none
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: Two large snorkel vents 5' from the floor no bench underneath
Temperature:
Humidity:
Piped Services: Fresh water, DI water, compressed air, floor drain
Electrical: 110V and 208V outlets
Security:

Furnishings and Equipment:

	Bench space for sample handling		
2	Cabinet for storage of supplies		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **GLY-70**
Space Name: **Sample preparation rock sawing**
Quantity: **1**
Program Area/Group: **Geology**

Number of Occupants: NA
Area & Min/Max Dim.: 200 NASF
Ceiling Height: Standard
Activity Description: Used for diamond saws to cut rocks. Will create water spray. Ear protection is needed
Adjacencies: next to T-69
Proximities:
Other:

Features:

Fenestration: Small window in door
Floor Finish: Painted concrete
Wall Finish: Plastic sheeting so walls can be hosed down
Ceiling Finish:
Acoustical: Sound proofing
Lighting:
Other:

System and Utility Requirements:

Data / Voice: none
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust:
Temperature: Standard for lab use
Humidity: Standard for lab use
Piped Services: Fresh water, DI water, compressed air, floor drain
Electrical: 110V and 208V outlets
Security:

Furnishings and Equipment:

	Bench space for sample handling (wet)		
	Waterproof bench for saws, no cabinets.		
1	White board		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **GLY-71**
Space Name: **Thin section microscopy lab**
Quantity: **1**
Program Area/Group: **Geology**

Number of Occupants: NA
Area & Min/Max Dim.: 300 NASF
Ceiling Height: Standard
Activity Description: Used for diamond saws to cut rocks. Will create water spray
Adjacencies: Next to T-70
Proximities:
Other:

Features:

Fenestration: Small window in door
Floor Finish:
Wall Finish:
Ceiling Finish:
Acoustical:
Lighting:
Other:

System and Utility Requirements:

Data / Voice: None
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: One snorkel vent above bench
Temperature: Standard for lab use
Humidity: Standard for lab use
Piped Services: Fresh water, DI water, compressed air, floor drain
Electrical: 110V and 208V outlets
Security:

Furnishings and Equipment:

	Bench space for handling wet materials		
	Bench space open underneath on one side of the room		
	Open shelving above benches		
1	White board		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **GLY-72**
Space Name: **Sample storage**
Quantity: **1**
Program Area/Group: **Geology**

Number of Occupants:
Area & Min/Max Dim.: 400 NASF
Ceiling Height: Standard
Activity Description: For the storage of rock samples
Adjacencies:
Proximities: T-69 and T-70
Other:

Features:

Fenestration: Small window in door
Floor Finish:
Wall Finish:
Ceiling Finish:
Acoustical:
Lighting:
Other:

System and Utility Requirements:

Data / Voice: None
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust:
Temperature:
Humidity:
Piped Services:
Electrical: 110V
Security:

Furnishings and Equipment:

	Floor to ceiling racks for "open " drawers 6" deep		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **GLY-73-77**
Space Name: **Wet laboratory**
Quantity: **5**
Program Area/Group: **Geology**

Number of Occupants:
Area & Min/Max Dim.: 400 NSF
Ceiling Height: Standard
Activity: Processing of geological samples, including use of acids
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Small window in door
Floor Finish:
Wall Finish:
Ceiling Finish: Non-perforated clean room ceiling tiles
Acoustical:
Lighting:
Other:

System and Utility Requirements:

Data / Voice: None
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: Two 4” wide fume hoods
Temperature: Standard for lab use
Humidity: Standard for lab use
Piped Services: Fresh water, DI water, compressed air, floor drain
Electrical: 110V, 208V
Security:

Furnishings and Equipment:

1	Cabinet for corrosives	1	White board
1	Cabinet for flammables		
	Bench space for instrumentation and sample handling		
	Bench/desk space		
	Open shelving above benches		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **GLY-78-82**
Space Name: **Dry laboratory**
Quantity: **5**
Program Area/Group: **Geology**

Number of Occupants:
Area & Min/Max Dim.: 400 NSF
Ceiling Height: Standard
Activity: Processing of geological samples,
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Small window in door
Floor Finish:
Wall Finish:
Ceiling Finish: Non-perforated clean room ceiling tiles
Acoustical:
Lighting:
Other:

System and Utility Requirements:

Data / Voice: 2 Ethernet and wireless
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust:
Temperature: Standard for lab use
Humidity: Standard for lab use
Piped Services: Fresh water, DI water, compressed air,
Electrical: 110V, 208V
Security:

Furnishings and Equipment:

1	Bench/desk space		
1	Bench space for instrumentation and sample handling		
	Desk space with computers		
1	White board		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **GLY-83-88**
Space Name: **General laboratory**
Quantity: **5**
Program Area/Group: **Geology**

Number of Occupants:
Area & Min/Max Dim.: 400 NSF
Ceiling Height:
Activity: Processing of geological samples,
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Small window in door
Floor Finish:
Wall Finish:
Ceiling Finish: Non-perforated clean room ceiling tiles
Acoustical:
Lighting:
Other:

System and Utility Requirements:

Data / Voice: 2 Ethernet and wireless
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: Four
Temperature: Standard for lab use
Humidity: Standard for lab use
Piped Services: Fresh water, DI water, compressed air,
Electrical: 110V, 208V
Security:

Furnishings and Equipment:

1	Bench/desk space		
1	Bench space for instrumentation and sample handling		
	Desk space with computers		
1	White board		

ROOM OR SPACE DATA COLLECTION SHEET

EOAS

GENERAL OCEANOGRAPHY - OC

BIOLOGICAL OCEANOGRAPHY - OCB

CHEMICAL OCEANOGRAPHY - OCC

PHYSICAL OCEANOGRAPHY - OCP

Space Number: OC-1-5
Space Name: Students (AqEnvSci)
Quantity: 5
Program Area/Group: Oceanography (all)

Number of Occupants: 1 per unit
Area & Min/Max Dim.: Min: 60 NSF
Ceiling Height: 9 ft
Activity Description: Student study and office space
Adjacencies: Near other AES student offices
Proximities: Same floor as Labs, near faculty offices.
Other: Storage Space for books, computer, coat etc.

Features:
Fenestration: Interior door with narrow door light, windows on exterior walls.
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other:

System and Utility Requirements:
Data / Voice: Wireless internet connection
Audio Visual: None
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Swipe Card

Furnishings and Equipment:		
	1	Standard Office Furniture; some lockable
	1	desk
	1	chair
	1	cabinet small
	1	shelf

Space Number:	OCB-1-5
Space Name:	Faculty Offices
Quantity:	5
Program Area/Group:	Biological Oceanography
Number of Occupants :	1 + up to 4 guests
Area & Min/Max Dim.:	Min: 180 NSF
Ceiling Height:	9 ft
Activity Description:	Office + small meetings
Adjacencies:	Staff offices
Proximities:	Same floor as Labs, near student offices
Other:	Some storage Space required for books, teaching materials, computers etc.
Features:	
Fenestration:	Interior door with narrow door light, windows on exterior walls.
Floor Finish:	Carpet
Wall Finish:	Standard painted
Ceiling Finish:	Standard acoustical tile
Acoustical:	Acoustical privacy to support confidential communication
Lighting:	Standard fluorescent
Other:	
System and Utility Requirements :	
Data / Voice: Audio	Wireless internet connection
Visual: Distance	None
Learning: Ventilation / Exhaust:	N/A
Temperature:	Standard for office use; occupant control
Humidity:	Standard for office use
Piped Services:	Standard for office use
Electrical:	N/A
Security:	Standard for office use; back-up power
	Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:		
	1	Office Furniture
	1	Desk
	1	Chair
	4	Conference Table chairs
	1	Small Conference Table
	2	Bookshelves
	2	Cabinets
	1	White board

Space Number: OCB-6-10
Space Name: Post-doc Offices
Quantity: 5
Program Area/Group: Biological Oceanography

Number of Occupants: 1 per unit
Area & Min/Max Dim.: Min: 60 NSF
Ceiling Height: 9 ft
Activity Description: Post-doc office space
Adjacencies: Near other Post-doc offices
Proximities: Same floor as labs, near faculty offices.
Other: Storage Space for books, computer, coat etc.

Features:
Fenestration: Interior door with narrow door light
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other:

System and Utility Requirements:
Data / Voice: Wireless internet connection
Audio Visual: None
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Swipe Card

Furnishings and Equipment:		
	1	Standard Office Furniture; some lockable
	1	desk
	1	chair
	1	cabinet
	1	shelf
	1	White board

Space Number: OCB-11-25
Space Name: Student Space
Quantity: 15
Program Area/Group: Biological Oceanography

Number of Occupants: 1 per unit
Area & Min/Max Dim.: Min: 60 NSF
Ceiling Height: 9 ft
Activity Description: Student study and office space
Adjacencies: Near other student offices
Proximities: Same floor as Labs, near faculty offices.
Other: Storage Space for books, computer, coat etc.

Features:
Fenestration: Interior door with narrow door light, windows on exterior walls.
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other:

System and Utility Requirements:
Data / Voice: Wireless internet connection
Audio Visual: None
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Swipe Card

Furnishings and Equipment:		
	1	Standard Office Furniture; some lockable
	1	desk
	1	chair
	1	cabinet small
	1	shelf

Space Number:	OCB-26-30
Space Name:	Research Staff/Research Faculty
Quantity:	5
Program Area/Group:	Biological Oceanography
Number of Occupants :	1
Area & Min/Max Dim.:	Min: 120 NSF
Ceiling Height:	9 ft
Activity Description:	Office + small meetings
Adjacencies:	Faculty offices
Proximities:	Same floor as Labs, near student offices
Other:	Some storage Space required for books, teaching materials, computers etc.

Features:

Fenestration:	Interior door with narrow door light, windows on exterior walls.
Floor Finish:	Carpet
Wall Finish:	Standard painted
Ceiling Finish:	Standard acoustical tile
Acoustical:	Acoustical privacy to support confidential communication
Lighting:	Standard fluorescent
Other:	

System and Utility Requirements:

Data / Voice: Audio	Wireless internet connection
Visual: Distance	None
Learning: Ventilation /	N/A
Exhaust:	Standard for office use; occupant control
Temperature:	Standard for office use
Humidity:	Standard for office use
Piped Services:	N/A
Electrical:	Standard for office use; back-up power
Security:	Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:		
	1	Office Furniture
	1	Desk
	1	Chair
	1	Bookshelf
	1	Cabinet
	1	White board

Space Number:	OCB-31-35
Space Name:	Wet Lab
Quantity:	5
Program Area/Group:	Biological Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	Min: 400 NSF
Ceiling Height:	Min: 9ft
Activity Description:	Bench space for biological, chemical, and physical analyses and instrumentation
Adjacencies:	Same floor as Faculty Office, near student office. Access to freight elevator, emergency exits
Proximities:	Near common labs, materials and instrument storage rooms
Other:	

Features:

Fenestration:	Interior doors with narrow door light, windows to outside
Floor Finish:	Chemical resistant non-slippery mechanical stress resistant floor
Wall Finish:	Moisture resistant
Ceiling Finish:	Moisture resistant, fire resistant
Acoustical:	Standard
Lighting:	Bright fluorescent
Other:	Cabinets, shelves for storage, fume hood, cabinet for hazardous materials

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	None
Distance Learning:	N/A
Ventilation / Exhaust:	Fume hood, Additional air changes/hour; Air Dryer, forced air exchange
Temperature:	Standard for lab use; occupant control
Humidity:	Standard for lab use, low
Piped Services:	Fresh water, DI water, pressurized air, non-corrosive plumbing, floor drains, emergency shower
Electrical:	Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup
power. Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
	1	Desk with computer
	1	Whiteboard
		Table space for Experimental setups
		Bench Space for Instruments
		Storage cabinets for instruments and materials
		Shelf space for books and materials
		Large sink area for sediment processing
		Second sink
		Hook up for lab dishwasher
		Space for lab coats
		Cabinet for storing chemicals, acids, bases, flammables

Space Number:	OCB-36-40
Space Name:	Dry Lab
Quantity:	5
Program Area/Group:	Biological Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	Min: 400 NSF
Ceiling Height:	Min: 9ft
Activity Description:	Bench space for biological, chemical, and physical analyses and instrumentation
Adjacencies:	Same floor as Faculty Office, near student office. Access to freight elevator, emergency exits
Proximities:	Near common labs, materials and instrument storage rooms
Other:	

Features:

Fenestration:	Interior doors with narrow door light, windows to outside
Floor Finish:	Chemical resistant non-slippery mechanical stress resistant floor
Wall Finish:	Moisture resistant
Ceiling Finish:	Moisture resistant, fire resistant
Acoustical:	Standard
Lighting:	Bright fluorescent
Other:	Cabinets, shelves for storage, fume hood, cabinet for hazardous materials

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	None
Distance Learning:	N/A
Ventilation / Exhaust:	Fume hood, Additional air changes/hour; Air Dryer, forced air exchange
Temperature:	Standard for lab use; occupant control
Humidity:	Standard for lab use, low
Piped Services:	Fresh water, DI water, pressurized air, non-corrosive plumbing, floor drains, emergency shower
Electrical:	Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup
power. Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
	1	Desk with computer
	1	Whiteboard
		Table space for Experimental setups
		Bench Space for Instruments
		Storage cabinets for instruments and materials
		Shelf space for books and materials
		Sink for washing glassware
		Second sink
		Space for lab coats
		Cabinet for storing chemicals, acids, bases, flammables

Space Number:	OCB-41-45
Space Name:	General Lab
Quantity:	5
Program Area/Group:	Biological Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	Min: 400 NSF
Ceiling Height:	Min: 9ft
Activity Description:	Bench space for biological, chemical, and physical analyses and instrumentation
Adjacencies:	Same floor as Faculty Office, near student office. Access to freight elevator, emergency exits
Proximities:	Near common labs, materials and instrument storage rooms
Other:	

Features:

Fenestration:	Interior doors with narrow door light, windows to outside
Floor Finish:	Chemical resistant non-slippery mechanical stress resistant floor
Wall Finish:	Moisture resistant
Ceiling Finish:	Moisture resistant, fire resistant
Acoustical:	Standard
Lighting:	Bright fluorescent
Other:	Cabinets, shelves for storage, fume hood, cabinet for hazardous materials

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	None
Distance Learning:	N/A
Ventilation / Exhaust:	Fume hood, Additional air changes/hour; Air Dryer, forced air exchange
Temperature:	Standard for lab use; occupant control
Humidity:	Standard for lab use, low
Piped Services:	Fresh water, DI water, pressurized air, non-corrosive plumbing, floor drains, emergency shower
Electrical:	Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup
power. Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
	1	Desk with computer
	1	Whiteboard
		Table space for Experimental setups
		Bench Space for Instruments
		Storage cabinets for instruments and materials
		Shelf space for books and materials
		Sink for washing glassware
		Second sink
		Space for lab coats
		Cabinet for storing chemicals, acids, bases, flammables

Space Number	OCB-46
Space Name:	Autoclave / Freezer
Quantity:	1
	Program Area/Group:
	Biological Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	180
Ceiling Height:	9ft
Activity Description:	Bench space organizing materials for the autoclave/dishwasher
Adjacencies:	Close to other labs
Proximities:	Same floor as main labs
Other:	

Features:

Fenestration:	Interior door with narrow door light
Floor Finish:	Resistant to chemicals and mechanical stress, non slippery
Wall Finish:	Moisture resistant
Ceiling Finish:	Moisture resistant
Acoustical:	N/A
Lighting:	Standard
Other:	Large sink, small sink for cleaning glassware

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	N/A
Distance Learning:	N/A
Ventilation / Exhaust:	Active ventilation, exhaust removal
Temperature:	Standard
Humidity:	Standard
Piped Services:	Fresh water, DI water, gas, pressurized air, non-corrosive plumbing, sink and emergency shower
Electrical:	Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup
power. Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Autoclave
		Dishwasher
		Chair
		Cabinet
		Table

Space Number:	OCB-47
Space Name:	Muffle Furnace
Quantity:	1
Program Area/Group:	Biological Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	180
Ceiling Height:	9ft
Activity Description:	Bench space for organizing materials for muffle furnace
Adjacencies:	Close to other labs
Proximities:	Same floor as main labs
Other:	Door should be air tight; muffle furnace can produce smelly fumes

Features:

Fenestration:	Interior door with narrow door light
Floor Finish:	Resistant to chemicals and mechanical stress, non slippery
Wall Finish:	Moisture resistant
Ceiling Finish:	Moisture resistant
Acoustical:	N/A
Lighting:	Standard
Other:	Space will also be used to accommodate freezers

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	N/A
Distance Learning:	N/A
Ventilation / Exhaust:	Active ventilation, exhaust removal, furnace needs separate exhaust pipe
Temperature:	Standard
Humidity:	Standard
Piped Services:	Fresh water, DI water, non-corrosive plumbing, sink and emergency shower
Electrical:	Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup
power. Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Muffle furnace
		Cabinet
		Table
		Chair
		Shelf

Space Number: OCB-48-49
Space Name: Environmental chambers
Quantity: 2
Program Area/Group: Biological Oceanography

Number of Occupants: N/A
Area & Min/Max Dim.: 180
Ceiling Height: 9ft
Activity Description: Bench space for work with samples
Adjacencies: Close to other labs
Proximities: Same floor as main labs
Other:

Features:
Fenestration: Insulated door with narrow door light
Floor Finish: Resistant to chemicals and mechanical stress, non slippery
Wall Finish: Moisture resistant
Ceiling Finish: Moisture resistant
Acoustical: N/A
Lighting: Special lighting for day simulations
Other: N/A

System and Utility Requirements:
Data / Voice: Wireless internet connection
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: Active ventilation
Temperature: Controllable
Humidity: Moisture control via room air conditioner
Piped Services: DI water, pressurized air, non-corrosive plumbing
Electrical: Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup power. Security: N/A

Furnishings and Equipment:		
		Moisture resistant table
		Moisture resistant shelves

Space Number:	OCB-50
Space Name:	Radioactive work room
Quantity:	1
Program Area/Group:	Biological Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	180
Ceiling Height:	9ft
Activity Description:	Bench space for work with samples
Adjacencies:	Close to other labs
Proximities:	Same floor as main labs
Other:	At the end of hall or away from main walkways

Features:

Fenestration:	Interior door with narrow door light
Floor Finish:	Resistant to chemicals and mechanical stress, non slippery
Wall Finish:	Moisture resistant
Ceiling Finish:	Moisture resistant
Acoustical:	N/A
Lighting:	Standard
Other:	N/A

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	N/A
Distance Learning:	N/A
Ventilation / Exhaust:	Active ventilation, exhaust removal, filter preventing spreading of radioactivity
Temperature:	Standard
Humidity:	Standard
Piped Services:	Fresh water, DI water, pressurized air, non-corrosive plumbing, sink and emergency
shower Electrical:	Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup power.
Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Table
		Shelf
		Cabinet
		Desk
		Lab chair
		Whiteboard

Space Number: OCB-51
Space Name: Specimen Room
Quantity: 1
Program Area/Group: Biological Oceanography

Number of Occupants: N/A
Area & Min/Max Dim.: 180
Ceiling Height: 9ft
Activity Description: Bench space for work with samples
Adjacencies: Close to other labs
Proximities: Same floor as main labs
Other: Should be at end of hallway and out of the main pathways

Features:
Fenestration: Interior door with narrow door light
Floor Finish: Resistant to chemicals and mechanical stress, non slippery
Wall Finish: Moisture resistant
Ceiling Finish: Moisture resistant
Acoustical: N/A
Lighting: Standard
Other: N/A

System and Utility Requirements:
Data / Voice: Wireless internet connection
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: Active ventilation, enhanced exhaust removal
Temperature: Standard
Humidity: Standard
Piped Services: Fresh water, DI water, non-corrosive plumbing, sink and emergency shower
Electrical: Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup power. Security: Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Chemical-resistant shelves
		Chemical-resistant cabinets
		Refrigerators
		Freezers

Space Number	OCB-52
Space Name:	Solvent Room
Quantity:	1
Program Area/Group:	Biological Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	180
Ceiling Height:	9ft
Activity Description:	Bench space for work with samples
Adjacencies:	Close to other labs
Proximities:	Same floor as main labs
Other:	Should be at end of hallway and out of the main pathways

Features:

Fenestration:	Interior door with narrow door light
Floor Finish:	Resistant to chemicals and mechanical stress, non slippery
Wall Finish:	Moisture resistant
Ceiling Finish:	Moisture resistant
Acoustical:	N/A
Lighting:	Standard
Other:	N/A

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	N/A
Distance Learning:	N/A
Ventilation / Exhaust:	Active ventilation, enhanced exhaust removal
Temperature:	Standard
Humidity:	Standard
Piped Services:	Fresh water, DI water, non-corrosive plumbing, sink and emergency shower
Electrical:	Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup
power. Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Chemical-resistant shelves
		Solvent and flammable substances cabinets
		Lockable dangerous substances cabinet
		Scale
		Refrigerator
		Freezer

Space Number	OCB-53
Space Name:	Chemical storage,
Quantity:	1
Program Area/Group:	Biological Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	180
Ceiling Height:	9ft
Activity Description:	Bench space for biological and chemical analyses and instruments
Adjacencies:	Close to other labs
Proximities:	Same floor as main labs
Other:	Should be at end of hallway and out of the main pathways

Features:

Fenestration:	Interior door with narrow door light
Floor Finish:	Resistant to chemicals and mechanical stress, non slippery
Wall Finish:	Moisture resistant
Ceiling Finish:	Moisture resistant
Acoustical:	N/A
Lighting:	Standard
Other:	N/A

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	N/A
Distance Learning:	N/A
Ventilation / Exhaust:	Active ventilation, enhanced exhaust removal
Temperature:	Standard
Humidity:	Standard
Piped Services:	Fresh water, DI water, non-corrosive plumbing, sink and emergency shower
Electrical:	Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup
power. Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Chemical-resistant shelves
		Acid and Base storage cabinets
		Flammable substances cabinets
		Lockable dangerous substances cabinet
		Refrigerator
		Freezer

Space Number: OCB-54
Space Name: Freezer Room
Quantity: 1
Program Area/Group: Biological Oceanography

Number of Occupants: N/A
Area & Min/Max Dim.: 300
Ceiling Height: 9ft
Activity Description: Bench space for sample handling
Adjacencies: Close to other labs
Proximities: Same floor as main labs
Other:

Features:
Fenestration: Insulated door with narrow door light
Floor Finish: Resistant to chemicals and mechanical stress, non slippery
Wall Finish: Moisture resistant
Ceiling Finish: Moisture resistant
Acoustical: N/A
Lighting: Standard
Other: N/A

System and Utility Requirements:
Data / Voice: Wireless internet connection
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: Active ventilation, heat removal
Temperature: Standard
Humidity: Standard
Piped Services: N/A
Electrical: Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup power. Security: Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Bench

Space Number: OCB-55
Space Name: Aquarium Room
Quantity: 1
Program Area/Group: Biological Oceanography

Number of Occupants: N/A
Area & Min/Max Dim.: 180
Ceiling Height: 9ft
Activity Description: Bench space for biological and chemical instruments
Adjacencies: Ground floor
Proximities: Freight elevator
Other:

Features:
Fenestration: Interior door with narrow door light
Floor Finish: Resistant to chemicals and mechanical stress, non slippery
Wall Finish: Seawater resistant
Ceiling Finish: Seawater resistant
Acoustical: N/A
Lighting: Corrosion/splash proof
Other: Floor drains

System and Utility Requirements:
Data / Voice: Wireless internet connection
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: Active ventilation, active moisture removal
Temperature: Controllable
Humidity: Active moisture removal
Piped Services: Fresh water, DI water, pressurized air, non-corrosive plumbing, sink and emergency shower
Electrical: Outlets with SI switch, 220 V outlets, backup power, all splash proof
Security: Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Seawater resistant tables
		Seawater resistant shelves
		Seawater resistant cabinet

Space Number:	OCC-1-4
Space Name:	Faculty
Quantity:	4
Program Area/Group:	Chemical Oceanography
Number of Occupants :	1 + up to 4 guests
Area & Min/Max Dim.:	Min: 180 NSF
Ceiling Height:	9 ft
Activity Description:	Office + small meetings
Adjacencies:	Staff offices
Proximities:	Same floor as Labs, near student offices
Other:	Some storage Space required for books, teaching materials, computers etc.

Features:

Fenestration:	Interior door with narrow door light, windows on exterior walls.
Floor Finish:	Carpet
Wall Finish:	Standard painted
Ceiling Finish:	Standard acoustical tile
Acoustical:	Acoustical privacy to support confidential communication
Lighting:	Standard fluorescent
Other:	

System and Utility Requirements:

Data / Voice: Audio	Wireless internet connection
Visual: Distance	None
Learning: Ventilation /	N/A
Exhaust:	Standard for office use; occupant control
Temperature:	Standard for office use
Humidity:	Standard for office use
Piped Services:	N/A
Electrical:	Standard for office use; back-up power
Security:	Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:		
	1	Office Furniture
	1	Desk
	1	Chair
	4	Conference Table chairs
	1	Small Conference Table
	2	Bookshelves
	2	Cabinets
	1	White board

Space Number: OCC-5-8
Space Name: Post-doc Offices
Quantity: 4
Program Area/Group: Chemical Oceanography

Number of Occupants: 1 per unit
Area & Min/Max Dim.: Min: 60 NSF
Ceiling Height: 9 ft
Activity Description: Post-doc office space
Adjacencies: Near other Post-doc offices
Proximities: Same floor as labs, near faculty offices.
Other: Storage Space for books, computer, coat etc.

Features:
Fenestration: Interior door with narrow door light
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other:

System and Utility Requirements:
Data / Voice: Wireless internet connection
Audio Visual: None
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Swipe Card

Furnishings and Equipment:		
	1	Standard Office Furniture; some lockable
	1	desk
	1	chair
	1	cabinet
	1	shelf
	1	White board

Space Number:	OCC-9-20
Space Name:	Student Space
Quantity:	12
Program Area/Group:	Chemical Oceanography
Number of Occupants:	1 per unit
Area & Min/Max Dim.:	Min: 60 NSF
Ceiling Height:	9 ft
Activity Description:	Student study and office space
Adjacencies:	Near other AES student offices
Proximities:	Same floor as Labs, near faculty offices.
Other:	Storage Space for books, computer, coat etc.

Features:

Fenestration:	Interior door with narrow door light, windows on exterior walls.
Floor Finish:	Carpet
Wall Finish:	Standard painted
Ceiling Finish:	Standard acoustical tile
Acoustical:	Standard
Lighting:	Standard fluorescent
Other:	

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	None
Distance Learning:	N/A
Ventilation / Exhaust:	Standard for office use; occupant control
Temperature:	Standard for office use
Humidity:	Standard for office use
Piped Services:	N/A
Electrical:	Standard for office use; back-up power
Security:	Swipe Card

Furnishings and Equipment:		
	1	Standard Office Furniture; some lockable
	1	desk
	1	chair
	1	cabinet small
	1	shelf

Space Number:	OCC-21-24
Space Name:	Research Staff/Research Faculty
Quantity:	4
Program Area/Group:	Chemical Oceanography
Number of Occupants :	1
Area & Min/Max Dim.:	Min: 120 NSF
Ceiling Height:	9 ft
Activity Description:	Office + small meetings
Adjacencies:	Faculty offices
Proximities:	Same floor as Labs, near student offices
Other:	Some storage Space required for books, teaching materials, computers etc.

Features:

Fenestration:	Interior door with narrow door light, windows on exterior walls.
Floor Finish:	Carpet
Wall Finish:	Standard painted
Ceiling Finish:	Standard acoustical tile
Acoustical:	Acoustical privacy to support confidential communication
Lighting:	Standard fluorescent
Other:	

System and Utility Requirements:

Data / Voice: Audio	Wireless internet connection
Visual: Distance	None
Learning: Ventilation /	N/A
Exhaust:	Standard for office use; occupant control
Temperature:	Standard for office use
Humidity:	Standard for office use
Piped Services:	N/A
Electrical:	Standard for office use; back-up power
Security:	Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:		
	1	Office Furniture
	1	Desk
	1	Chair
	1	Bookshelf
	1	Cabinet
	1	White board

Space Number:	OCC-25-28
Space Name:	Wet Lab
Quantity:	4
Program Area/Group:	Chemical Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	Min: 400 NSF
Ceiling Height:	Min: 9ft
Activity Description:	Bench space for biological, chemical, and physical analyses and instrumentation
Adjacencies:	Same floor as Faculty Office, near student office. Access to freight elevator, emergency exits
Proximities:	Near common labs, materials and instrument storage rooms
Other:	

Features:

Fenestration:	Interior doors with narrow door light, windows to outside
Floor Finish:	Chemical resistant non-slippery mechanical stress resistant floor
Wall Finish:	Moisture resistant
Ceiling Finish:	Moisture resistant, fire resistant
Acoustical:	Standard
Lighting:	Bright fluorescent
Other:	Cabinets, shelves for storage, fume hood, cabinet for hazardous materials

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	None
Distance Learning:	N/A
Ventilation / Exhaust:	Fume hood, Additional air changes/hour; Air Dryer, forced air exchange
Temperature:	Standard for lab use; occupant control
Humidity:	Standard for lab use, low
Piped Services:	Fresh water, DI water, pressurized air, non-corrosive plumbing, floor drains, emergency shower
Electrical:	Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup
power. Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
	1	Desk with computer
	1	Whiteboard
		Table space for Experimental setups
		Bench Space for Instruments
		Storage cabinets for instruments and materials
		Shelf space for books and materials
		Large sink area for sediment processing
		Second sink
		hook up for lab dishwasher
		Space for lab coats
		Cabinet for storing chemicals, acids, bases, flammables

Space Number:	OCC-29-32
Space Name:	Dry Lab
Quantity:	4
Program Area/Group:	Chemical Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	Min: 400 NSF
Ceiling Height:	Min: 9ft
Activity Description:	Bench space for biological, chemical, and physical analyses and instrumentation
Adjacencies:	Same floor as Faculty Office, near student office. Access to freight elevator, emergency exits
Proximities:	Near common labs, materials and instrument storage rooms
Other:	

Features:

Fenestration:	Interior doors with narrow door light, windows to outside
Floor Finish:	Chemical resistant non-slippery mechanical stress resistant floor
Wall Finish:	Moisture resistant
Ceiling Finish:	Moisture resistant, fire resistant
Acoustical:	Standard
Lighting:	Bright fluorescent
Other:	Cabinets, shelves for storage, fume hood, cabinet for hazardous materials

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	None
Distance Learning:	N/A
Ventilation / Exhaust:	Fume hood, Additional air changes/hour; Air Dryer, forced air exchange
Temperature:	Standard for lab use; occupant control
Humidity:	Standard for lab use, low
Piped Services:	Fresh water, DI water, pressurized air, non-corrosive plumbing, floor drains, emergency shower
Electrical:	Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup
power. Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
	1	Desk with computer
	1	Whiteboard
		Table space for Experimental setups
		Bench Space for Instruments
		Storage cabinets for instruments and materials
		Shelf space for books and materials
		Sink for washing glassware
		Second sink
		Space for lab coats
		Space for analytical scale
		Cabinet for storing chemicals, acids, bases, flammables

Space Number:	OCC-33-36
Space Name:	General Lab
Quantity:	4
Program Area/Group:	Chemical Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	Min: 400 NSF
Ceiling Height:	Min: 9ft
Activity Description:	Bench space for biological, chemical, and physical analyses and instrumentation
Adjacencies:	Same floor as Faculty Office, near student office. Access to freight elevator, emergency exits
Proximities:	Near common labs, materials and instrument storage rooms
Other:	

Features:

Fenestration:	Interior doors with narrow door light, windows to outside
Floor Finish:	Chemical resistant non-slippery mechanical stress resistant floor
Wall Finish:	Moisture resistant
Ceiling Finish:	Moisture resistant, fire resistant
Acoustical:	Standard
Lighting:	Bright fluorescent
Other:	Cabinets, shelves for storage, fume hood, cabinet for hazardous materials

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	None
Distance Learning:	N/A
Ventilation / Exhaust:	Fume hood, Additional air changes/hour; Air Dryer, forced air exchange
Temperature:	Standard for lab use; occupant control
Humidity:	Standard for lab use, low
Piped Services:	Fresh water, DI water, pressurized air, non-corrosive plumbing, floor drains, emergency shower
Electrical:	Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup
power. Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
	1	Desk with computer
	1	Whiteboard
		Table space for Experimental setups
		Bench Space for Instruments
		Storage cabinets for instruments and materials
		Shelf space for books and materials
		Sink for washing glassware
		Second sink
		Space for lab coats
		Space for analytical scale
		Cabinet for storing chemicals, acids, bases, flammables

Space Number:	OCC-37
Space Name:	Washroom
Quantity:	1
Program Area/Group:	Chemical Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	180
Ceiling Height:	9ft
Activity Description:	Bench space for glassware handling
Adjacencies:	Close to other labs
Proximities:	Same floor as main labs
Other:	

Features:

Fenestration:	Interior door with narrow door light
Floor Finish:	Resistant to chemicals and mechanical stress, non slippery
Wall Finish:	Water resistant
Ceiling Finish:	Water resistant
Acoustical:	N/A
Lighting:	Splash proof
Other:	Large sinks, chemical resistant

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	N/A
Distance Learning:	N/A
Ventilation / Exhaust:	Active ventilation, exhaust removal
Temperature:	Standard
Humidity:	Active moisture removal
Piped Services:	Fresh water, DI water, gas, pressurized air, non-corrosive plumbing, emergency shower
Electrical:	Outlets with SI switch and where needed, 220 V outlets, all splash proof
Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Dish washer
		Autoclave
		Dryer
		Washer
		Table, moisture proof
		Shelf moisture proof

Space Number:	OCC-38
Space Name:	Chemical Storage
Quantity:	1
Program Area/Group:	Chemical Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	180
Ceiling Height:	9ft
Activity Description:	Bench space for biological and chemical analyses and instruments
Adjacencies:	Close to other labs
Proximities:	Same floor as main labs
Other:	Should be at end of hallway and out of the main pathways

Features:

Fenestration:	Interior door with narrow door light
Floor Finish:	Resistant to chemicals and mechanical stress, non slippery
Wall Finish:	Moisture resistant
Ceiling Finish:	Moisture resistant
Acoustical:	N/A
Lighting:	Standard
Other:	N/A

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	N/A
Distance Learning:	N/A
Ventilation / Exhaust:	Active ventilation, enhanced exhaust removal
Temperature:	Standard
Humidity:	Standard
Piped Services:	Fresh water, DI water, non-corrosive plumbing, sink and emergency shower
Electrical:	Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup
power. Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Chemical-resistant shelves
		Acid and Base storage cabinets
		Flammable substances cabinets
		Lockable dangerous substances cabinet
		Refrigerator
		Freezer

Space Number: OCC-39
Space Name: Solvents
Quantity: 1
Program Area/Group: Chemical Oceanography

Number of Occupants: N/A
Area & Min/Max Dim.: 180
Ceiling Height: 9ft
Activity Description: Bench space for work with samples
Adjacencies: Close to other labs
Proximities: Same floor as main labs
Other: Should be at end of hallway and out of the main pathways

Features:
Fenestration: Interior door with narrow door light
Floor Finish: Resistant to chemicals and mechanical stress, non slippery
Wall Finish: Moisture resistant
Ceiling Finish: Moisture resistant
Acoustical: N/A
Lighting: Standard
Other: N/A

System and Utility Requirements:
Data / Voice: Wireless internet connection
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: Active ventilation, enhanced exhaust removal
Temperature: Standard
Humidity: Standard
Piped Services: Fresh water, DI water, non-corrosive plumbing, sink and emergency shower
Electrical: Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup power. Security: Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Chemical-resistant shelves
		Solvent and flammable substances cabinets
		Lockable dangerous substances cabinet
		Scale
		Refrigerator
		Freezer

Space Number: OCC-40
Space Name: Freezer
Quantity: 1
Program Area/Group: Chemical Oceanography

Number of Occupants: N/A
Area & Min/Max Dim.: 300
Ceiling Height: 9ft
Activity Description: Bench space for sample handling
Adjacencies: Close to other labs
Proximities: Same floor as main labs
Other:

Features:
Fenestration: Insulated door with narrow door light
Floor Finish: Resistant to chemicals and mechanical stress, non slippery
Wall Finish: Moisture resistant
Ceiling Finish: Moisture resistant
Acoustical: N/A
Lighting: Standard
Other: N/A

System and Utility Requirements:
Data / Voice: Wireless internet connection
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: Active ventilation, heat removal
Temperature: Standard
Humidity: Standard
Piped Services: N/A
Electrical: Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup power. Security: Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Bench

Space Number:	OCC-41
Space Name:	Radioactive
Quantity:	1
Program Area/Group:	Chemical Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	180
Ceiling Height:	9ft
Activity Description:	Bench space for work with samples
Adjacencies:	Close to other labs
Proximities:	Same floor as main labs
Other:	At the end of hall or away from main walkways

Features:

Fenestration:	Interior door with narrow door light
Floor Finish:	Resistant to chemicals and mechanical stress, non slippery
Wall Finish:	Moisture resistant
Ceiling Finish:	Moisture resistant
Acoustical:	N/A
Lighting:	Standard
Other:	N/A

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	N/A
Distance Learning:	N/A
Ventilation / Exhaust:	Active ventilation, exhaust removal, filter preventing spreading of radioactivity
Temperature:	Standard
Humidity:	Standard
Piped Services:	Fresh water, DI water, pressurized air, non-corrosive plumbing, sink and emergency
shower Electrical:	Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup power.
Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Table
		Shelf
		Cabinet
		Desk
		Lab chair
		Whiteboard

Space Number:	OCC-42
Space Name:	Weighing Room
Quantity:	1
Program Area/Group:	Chemical Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	180
Ceiling Height:	9ft
Activity Description:	Bench space for biological and chemical samples and scales
Adjacencies:	Close to other labs
Proximities:	Same floor as main labs
Other:	

Features:

Fenestration:	Interior door with narrow door light
Floor Finish:	Resistant to chemicals and mechanical stress, non slippery
Wall Finish:	Moisture resistant
Ceiling Finish:	Moisture resistant
Acoustical:	N/A
Lighting:	Standard
Other:	N/A

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	N/A
Distance Learning:	N/A
Ventilation / Exhaust:	Active ventilation, exhaust removal
Temperature:	Standard
Humidity:	Active moisture removal
Piped Services:	Fresh water, DI water, gas, pressurized air, non-corrosive plumbing, sink and emergency shower
Electrical:	Outlets with SI switch, 220 V outlet, backup power.
Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Weighing table
		Table
		Chairs
		Shelves
		Cabinet

Space Number: OCC-43
Space Name: Rooftop Lab
Quantity: 1
Program Area/Group: Chemical Oceanography

Number of Occupants:
Area & Min/Max Dim.: 400
Ceiling Height: 9ft
Activity Description: Bench space for biological and chemical analyses and instruments
Adjacencies: Roof
Proximities: Near elevator
Other:

Features:
Fenestration: Exterior door with narrow door light, windows on all walls
Floor Finish: Resistant to chemicals and mechanical stress, non slippery
Wall Finish: Moisture resistant
Ceiling Finish: Moisture resistant
Acoustical: N/A
Lighting: Standard
Other: N/A

System and Utility Requirements:
Data / Voice: Wireless internet connection
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services: Fresh water, DI water, gas, pressurized air, non-corrosive plumbing, sink and emergency shower
Electrical: Outlets with SI switch, 220 V outlet, backup power.
Security: Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Lab benches
		Table
		Shelves
		Cabinets
		Chairs

Space Number:	OCP-1-6
Space Name:	Faculty
Quantity:	6
Program Area/Group:	Phys Oceanography
Number of Occupants :	1 + up to 4 guests
Area & Min/Max Dim.:	Min: 180 NSF
Ceiling Height:	9 ft
Activity Description:	Office + small meetings
Adjacencies:	Staff offices
Proximities:	Same floor as Labs, near student offices
Other:	Some storage Space required for books, teaching materials, computers etc.

Features:

Fenestration:	Interior door with narrow door light, windows on exterior walls.
Floor Finish:	Carpet
Wall Finish:	Standard painted
Ceiling Finish:	Standard acoustical tile
Acoustical:	Acoustical privacy to support confidential communication
Lighting:	Standard fluorescent
Other:	

System and Utility Requirements:

Data / Voice: Audio	Wireless internet connection
Visual: Distance	None
Learning: Ventilation /	N/A
Exhaust:	Standard for office use; occupant control
Temperature:	Standard for office use
Humidity:	Standard for office use
Piped Services:	N/A
Electrical:	Standard for office use; back-up power
Security:	Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:		
	1	Office Furniture
	1	Desk
	1	Chair
	4	Conference Table chairs
	1	Small Conference Table
	2	Bookshelves
	2	Cabinets

Space Number: OCP-7-24
Space Name: Student Offices
Quantity: 18
Program Area/Group: Phys Oceanography

Number of Occupants: 1 per unit
Area & Min/Max Dim.: Min: 60 NSF
Ceiling Height: 9 ft
Activity Description: Student study and office space
Adjacencies: Near other AES student offices
Proximities: Same floor as Labs, near faculty offices.
Other: Storage Space for books, computer, coat etc.

Features:
Fenestration: Interior door with narrow door light, windows on exterior walls.
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other:

System and Utility Requirements:
Data / Voice: Wireless internet connection
Audio Visual: None
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Swipe Card

Furnishings and Equipment:		
	1	Standard Office Furniture; some lockable
	1	desk
	1	chair
	1	cabinet small
	1	shelf

Space Number: OCP-25-30
Space Name: Post-doc Offices
Quantity: 6
Program Area/Group: Chemical Oceanography

Number of Occupants: 1 per unit
Area & Min/Max Dim.: Min: 60 NSF
Ceiling Height: 9 ft
Activity Description: Post-doc office space
Adjacencies: Near other Post-doc offices
Proximities: Same floor as labs, near faculty offices.
Other: Storage Space for books, computer, coat etc.

Features:
Fenestration: Interior door with narrow door light
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other:

System and Utility Requirements:
Data / Voice: Wireless internet connection
Audio Visual: None
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Swipe Card

Furnishings and Equipment:		
	1	Standard Office Furniture; some lockable
	1	desk
	1	chair
	1	cabinet
	1	shelf
	1	White board

Space Number:	OCP-31-36
Space Name:	Research Staff
Quantity:	6
Program Area/Group:	Phys Oceanography
Number of Occupants :	1
Area & Min/Max Dim.:	Min: 120 NSF
Ceiling Height:	9 ft
Activity Description:	Office + small meetings
Adjacencies:	Faculty offices
Proximities:	Same floor as Labs, near student offices
Other:	Some storage Space required for books, teaching materials, computers etc.

Features:

Fenestration:	Interior door with narrow door light, windows on exterior walls.
Floor Finish:	Carpet
Wall Finish:	Standard painted
Ceiling Finish:	Standard acoustical tile
Acoustical:	Acoustical privacy to support confidential communication
Lighting:	Standard fluorescent
Other:	

System and Utility Requirements:

Data / Voice: Audio	Wireless internet connection
Visual: Distance	None
Learning: Ventilation /	N/A
Exhaust:	Standard for office use; occupant control
Temperature:	Standard for office use
Humidity:	Standard for office use
Piped Services:	N/A
Electrical:	Standard for office use; back-up power
Security:	Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:		
	1	Office Furniture
	1	Desk
	1	Chair
	1	Bookshelf
	1	Cabinet
	1	White board

Space Number:	OCP-37-41
Space Name:	Research Faculty
Quantity:	5
Program Area/Group:	Phys Oceanography
Number of Occupants :	1
Area & Min/Max Dim.:	Min: 120 NSF
Ceiling Height:	9 ft
Activity Description:	Office + small meetings
Adjacencies:	Faculty offices
Proximities:	Same floor as Labs, near student offices
Other:	Some storage Space required for books, teaching materials, computers etc.

Features:

Fenestration:	Interior door with narrow door light, windows on exterior walls.
Floor Finish:	Carpet
Wall Finish:	Standard painted
Ceiling Finish:	Standard acoustical tile
Acoustical:	Acoustical privacy to support confidential communication
Lighting:	Standard fluorescent
Other:	

System and Utility Requirements:

Data / Voice: Audio	Wireless internet connection
Visual: Distance	None
Learning: Ventilation /	N/A
Exhaust:	Standard for office use; occupant control
Temperature:	Standard for office use
Humidity:	Standard for office use
Piped Services:	N/A
Electrical:	Standard for office use; back-up power
Security:	Private, key for office door but Swipe Card @ Suite

Furnishings and Equipment:		
	1	Office Furniture
	1	Desk
	1	Chair
	1	Bookshelf
	1	Cabinet
	1	White board

Space Number:	OCP 42-43
Space Name:	Observational Wet Lab
Quantity:	2
Program Area/Group:	Phys Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	Min: 400 NSF
Ceiling Height:	Min: 9ft
Activity Description:	Table space for computers and instruments
Adjacencies:	Same floor as Faculty Office, near student office. Access to freight elevator, emergency exits
Proximities:	Near common labs, materials and instrument storage rooms
Other:	

Features:

Fenestration:	Interior doors with narrow door light, windows to outside
Floor Finish:	Static electricity minimizing, non-slippery mechanical stress resistant floor
Wall Finish:	Moisture resistant
Ceiling Finish:	Moisture resistant, fire resistant
Acoustical:	Standard
Lighting:	Bright fluorescent
Other:	Cabinets, shelves for storage, cabinet for hazardous materials

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	None
Distance Learning:	N/A
Ventilation / Exhaust:	Air Dryer, forced air exchange
Temperature:	Standard for lab use; occupant control
Humidity:	Standard for lab use, low
Piped Services:	Fresh water, DI water, pressurized air, non-corrosive plumbing, floor drains, emergency shower
Electrical:	Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup
power. Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Desks for computer work
		Whiteboard
		Table space for Experimental setups
		Table space for Experimental setups
		Bench Space for Instruments
		Storage cabinets for instruments and materials
		Shelf space for books and materials
		Sink

Space Number:	OCP-44-45
Space Name:	Observational Dry Lab
Quantity:	2
Program Area/Group:	Phys Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	Min: 400 NSF
Ceiling Height:	Min: 9ft
Activity Description:	Table space for computers and instruments
Adjacencies:	Same floor as Faculty Office, near student office. Access to freight elevator, emergency exits
Proximities:	Near common labs, materials and instrument storage rooms
Other:	

Features:

Fenestration:	Interior doors with narrow door light, windows to outside
Floor Finish:	Static electricity minimizing, non-slippery mechanical stress resistant floor
Wall Finish:	Standard
Ceiling Finish:	Standard
Acoustical:	Standard
Lighting:	Standard fluorescent
Other:	Cabinets, shelves for storage, fume hood, cabinet for hazardous materials

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	None
Distance Learning:	N/A
Ventilation / Exhaust:	Air Dryer, forced air exchange
Temperature:	Standard for lab use; occupant control
Humidity:	Standard for lab use, low
Piped Services:	Fresh water, DI water, pressurized air, non-corrosive plumbing, floor drains, emergency shower
Electrical:	Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup
power. Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Desks for computer work
		Whiteboard
		Table space for computers and instruments
		Storage cabinets for instruments and materials
		Shelf space for books and materials
		Small sink

Space Number:	OCP-46-47
Space Name:	Observational General Lab
Quantity:	2
Program Area/Group:	Phys Oceanography
Number of Occupants:	N/A
Area & Min/Max Dim.:	Min: 400 NSF
Ceiling Height:	Min: 9ft
Activity Description:	Table space for computers and instruments
Adjacencies:	Same floor as Faculty Office, near student office. Access to freight elevator, emergency exits
Proximities:	Near common labs, materials and instrument storage rooms
Other:	

Features:

Fenestration:	Interior doors with narrow door light, windows to outside
Floor Finish:	Static electricity minimizing, non-slippery mechanical stress resistant floor
Wall Finish:	Standard
Ceiling Finish:	Standard
Acoustical:	Standard
Lighting:	Standard fluorescent
Other:	Cabinets, shelves for storage, fume hood, cabinet for hazardous materials

System and Utility Requirements:

Data / Voice:	Wireless internet connection
Audio Visual:	None
Distance Learning:	N/A
Ventilation / Exhaust:	Air Dryer, forced air exchange
Temperature:	Standard for lab use; occupant control
Humidity:	Standard for lab use, low
Piped Services:	Fresh water, DI water, pressurized air, non-corrosive plumbing, floor drains, emergency shower
Electrical:	Outlets with SI switch and where needed, splash proof, 220 V outlets, and backup
power. Security:	Semi Private, key Swipe Card;

Furnishings and Equipment:		
		Desks for computer work
		Whiteboard
		Table space for computers and instruments
		Storage cabinets for instruments and materials
		Shelf space for books and materials
		Small sink

ROOM OR SPACE DATA COLLECTION SHEET

EOAS - METEOROLOGY

MET-1 TO 155

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **MET-1-17**
Space Name: **Faculty**
Quantity: **17**
Program Area/Group: **Meteorology**

Number of Occupants: 1
Area & Min/Max Dim.: 180 NASF
Ceiling Height: Standard
Activity Description:
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Windows to outside
Floor Finish: Carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: Four gigabit internet ports
Audio Visual: Phone
Distance Learning:
Ventilation / Exhaust: Individual AC control
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Four paired electrical outlets
Security: Standard key lock or card swipe

Furnishings and Equipment:

1	L-shaped desk, 7 feet by 7 feet	3	Bookcases
1	Four foot round table	1	Standard desktop computer
3	Standard chairs	2	LCD 24” Monitors
1	Eight foot by four foot whiteboard	1	Color Laser Jet printer with extra toner
1	Three foot by two foot cork board	1	Paper shredder
2	File cabinets (four drawer)		
1	Executive business chair		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **MET-18-22**
Space Name: **Research Staff Offices**
Quantity: **5**
Program Area/Group: **Meteorology**

Number of Occupants: 1
Area & Min/Max Dim.: 120 NASF
Ceiling Height: Standard
Activity Description:
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Standard
Floor Finish: Carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: Three gigabit internet ports
Audio Visual: Phone
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Three paired electrical outlets
Security: Standard key lock or card swipe

Furnishings and Equipment:

1	Standard desk, 6 feet by 4 feet	1	Bookcase
1	File cabinets (four drawer)	1	Standard desktop computer
2	Standard chairs	1	LCD 24” Monitor
1	Four foot by three foot whiteboard	1	Black and white laser jet printer with extra toner
1	Three foot by two foot cork board		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **MET-23-27**
Space Name: **Post-doc Offices**
Quantity: **5**
Program Area/Group: **Meteorology**

Number of Occupants: 1
Area & Min/Max Dim.: 90 NASF
Ceiling Height: Standard
Activity Description:
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Standard
Floor Finish: Carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: Two gigabit internet ports
Audio Visual: Phone
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Three paired electrical outlets
Security: Standard key lock or card swipe

Furnishings and Equipment:

1	Standard desk, 6 feet by 4 feet	1	Standard desktop computer
1	Bookcase	1	LCD 24” Monitor
2	Standard chairs	1	Black and white laser jet printer with extra toner
1	Four foot by three foot whiteboard		
1	Three foot by two foot cork board		
1	File cabinets (four drawer)		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **MET-28-32**
Space Name: **Research Faculty**
Quantity: **5**
Program Area/Group: **Meteorology**

Number of Occupants: 1
Area & Min/Max Dim.: 120 NASF
Ceiling Height: Standard
Activity Description:
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Standard
Floor Finish: Carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: Three gigabit internet ports
Audio Visual: Phone
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Three paired electrical outlets
Security: Standard key lock or card swipe

Furnishings and Equipment:

1	Standard desk, 6 feet by 4 feet	1	Bookcase
1	File cabinet (four drawer)	1	Standard desktop computer
2	Standard chairs	1	LCD 24” Monitor
1	Four foot by three foot whiteboard	1	Black and white laser jet printer with extra toner
1	Three foot by two foot cork board		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **MET-33-40**
Space Name: **Faculty Research Lab**
Quantity: **8**
Program Area/Group: **Meteorology**

Number of Occupants: Varies
Area & Min/Max Dim.: 400 NASF
Ceiling Height: Standard
Activity Description:
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Standard
Floor Finish: Carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: Ten gigabit internet ports
Audio Visual: Phone
Distance Learning:
Ventilation / Exhaust: Individual AC control
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Ten paired electrical outlets
Security: Standard key lock or card swipe

Furnishings and Equipment:

5	Standard desk, six feet by six feet	3	Bookcases
1	Eight foot by 4 foot table	5	Standard desktop computer
8	Standard chairs	10	LCD 24” Monitors
1	Eight foot by four foot whiteboard	1	Color laser jet printer with extra toner
1	Three foot by two foot cork board		
3	File cabinets (four drawer)		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **MET-41-143**
Space Name: **Student Space—Supports Faculty Research**
Quantity: **103**
Program Area/Group: **Meteorology**

Number of Occupants: 1
Area & Min/Max Dim.: 60 NASF
Ceiling Height: Standard
Activity Description:
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Standard
Floor Finish: Carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: Two gigabit internet ports
Audio Visual: Standard
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Two paired electrical outlets
Security: Standard key lock or card swipe

Furnishings and Equipment:

1	Standard desk, five feet by three feet	1	File cabinet
1	Bookcase	1	Standard desktop computer
1	Standard chairs	1	LCD 17” Monitors
1	Four foot by three foot whiteboard		
1	Three foot by two foot cork board		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **MET-144**
Space Name: **Undergraduate computer laboratory**
Quantity: **1**
Program Area/Group: **Meteorology**

Number of Occupants: 29 (7 rows of 4 + instructor: adjusted per recommendation of B. Whissel)
Area & Min/Max Dim.: 700 NASF (adjusted per recommendation of Bret Whissel)
Ceiling Height: Standard
Activity Description:
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Standard
Floor Finish: No Carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: 30 10-gigabit internet ports, port boxes spaced 6 ft apart along side walls
Audio Visual: front-mount, or ceiling-mount loudspeakers, volume control at console
Distance Learning:
Ventilation / Exhaust: Enhanced for computer lab
Temperature:
Humidity:
Piped Services:
Electrical: Power for 29 computers, quad outlets spaced 6 ft along side walls
Security: Card swipe

Furnishings and Equipment:

28	Computer desks	1	File cabinet
1	Bookcase	29	Desktop computers
28	Rolling task chairs	29	LCD 19” Monitors (4:3 aspect ratio)
1	White board across entire front of room	1	Teaching console desk
1	Three foot by two foot cork board		Cable guides for electrical and internet
1	Projector (1280x1024 minimum resolution)	1	Motorized screen
1	Teaching console-height chair	1	Audio amplifier
1	Document camera (1280x1024 min res.)	1	A/V switching equipment

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **MET-145**
Space Name: **TA Consultation Office**
Quantity: **1**
Program Area/Group: **Meteorology**

Number of Occupants: 4
Area & Min/Max Dim.: 180 NASF
Ceiling Height: Standard
Activity Description:
Adjacencies:
Proximities:
Other:

Features:

Fenestration: Standard
Floor Finish: Carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: Four gigabit internet ports
Audio Visual: Standard
Distance Learning:
Ventilation / Exhaust: Standard
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: Four paired electrical outlets
Security: Standard key lock or card swipe

Furnishings and Equipment:

3	Standard desk, five feet by three feet	1	File cabinet
2	Bookcase	3	Standard desktop computer
6	Standard chairs	3	LCD 17” Monitors
1	Four foot by three foot whiteboard		
1	Three foot by two foot cork board		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **MET-146**
Space Name: **Map Monitor Display—Common Area**
Quantity: **1**
Program Area/Group: **Meteorology**

Number of Occupants: Varies
Area & Min/Max Dim.: 400 NASF
Ceiling Height: Standard
Activity Description:
Adjacencies: MET-315 preferred
Proximities: Ideally this would be on the top floor of the building with a 360° window view surrounding the monitor display, with the sofas along the walls
Other: 20 foot by 20 foot aspect ratio

Features:

Fenestration: Standard
Floor Finish: Carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: 20 gigabit internet ports
Audio Visual: Cable or satellite TV connection
Distance Learning:
Ventilation / Exhaust: Enhanced for extensive number of computers + monitors
Temperature: Standard
Humidity: Standard
Piped Services:
Electrical: 20 paired electrical outlets, with support for NEMA-5-20P outlets
Security: Card swipe

Furnishings and Equipment:

3	Sofas (three-four person)	1	File cabinet
2	Bookcase	4	Computer servers each supporting 6-8 HDMI or Display Port video output
15	Standard chairs	24	LCD 24” Widescreen Monitors in 8 x 3config
2	Eight foot by four foot whiteboard		Cable guides
1	Three foot by two foot cork board	6	Tables
1	Touch screen console+desk to control map wall		Wall mounting kits to support 24 24” monitors

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **MET-147**
Space Name: **Weather Station Manager Office**
Quantity: **1**
Program Area/Group: **Meteorology / Staff**

Number of Occupants: 1
Area & Min/Max Dim.: 180 NASF
Ceiling Height: Standard office height
Activity Description: Non-tenured faculty/staff office
Adjacencies:
Proximities: Should be adjacent to roof access observatory
Other: 12 x 15 approx.

Features:

Fenestration: As many windows as possible with views to the rooftop observation deck
Floor Finish: No carpet
Wall Finish: Built-in book cases one wall, or freestanding; otherwise standard ok on; 6 to 8' workbench with under cabinet along one window; 1 whiteboard/BB
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Auto on/off with manual override
Other: Framed nameplate outside entrance "Harry Cooper Weather Station"; Sink with hot/cold running water

System and Utility Requirements:

Data / Voice: Three gigabit internet ports
Audio Visual: Cable or satellite television connection; 32" LCD monitor ceiling mounted
Distance Learning:
Ventilation / Exhaust: Standard
Temperature:
Humidity:
Piped Services: Accessible and sealable conduit for external data lines from roof (1.5" conduit) for data lines connected to external instrumentation
Electrical: Double the standard office configuration, esp. at workbench; GFI; on generator backup
Security: Card-swipe and/or access code access

Furnishings and Equipment:

1	Computer table/desk	1	Three foot by two foot table
1	Office desk	1	Four drawer file cabinet
3	Office Chairs	2	High end desktop computers
1	Workbench (6 to 8' by 30") with partial (half)	1	Whiteboard/bulletin board combo (4' x 8' split)
	under cabinet; near floor to about four ft. high	1	Color laser printer
2	Adjustable work stools		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **MET-149**
Space Name: **Meteorology Chemistry Lab (Meteorology Wet / Instruments Lab)**
Quantity: **1**
Program Area/Group: **Meteorology / Instruction**

Number of Occupants: 1
Area & Min/Max Dim.: 400 NASF
Ceiling Height: Standard office height 8'
Activity Description: Non-tenured faculty/staff office
Adjacencies:
Proximities: Adjacent to room MET-215 – lab prep and storage
Other: 20 x 20 approx.

Features:

Fenestration: Ambient lighting can be high windows only on one side
Floor Finish: No carpet
Wall Finish: Built-in cabinetry for storage of lab equipment and instruments; locks
Workbenches and wet lab stations and power (GFI) at each stations
(See sample photo attached)
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Auto on/off with manual override
Other: Sinks with hot/cold running water at each of 6 – 7 lab stations

System and Utility Requirements:

Data / Voice: Two gigabit internet ports per lab station + 2 ports at instructor station
Audio Visual: Smart board, document camera, desktop computer with audio, ceiling-
Mounted hires LCD projector, room audio; audio-visual control box
integrated with computer
Distance Learning:
Ventilation / Exhaust: 1 chemical hood / cabinet; emergency eye wash shower
Temperature:
Humidity:
Piped Services: Audio controlled from front
Electrical: Extra GFI outlets as outlined for wall finish/other above
Security: Card-swipe and/or access code access

Furnishings and Equipment:

1	Presentation console/desk for instructor	27	Standard student chairs
1	3' x 8' table	2	Four drawer file cabinet
3	Office Chairs	2	High end desktop computers
6-7	Lab station benches (see photo)	1	Whiteboard/bulletin board combo (4' x 8' split)
28	lab station stools (adjustable)	1	Color laser printer
9	3' x 10' tables	1	AV control with sound, LCD projector

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **MET-150**
Space Name: **Control Room**
Quantity: **1**
Program Area/Group: **Meteorology / Weathercasting**

Number of Occupants: One student or faculty member
Area & Min/Max Dim.: 120 NASF
Ceiling Height: Standard
Activity Description: Control room for Weathercasting activity.
Adjacencies: MET-153
Proximities: Should be part of an enclosed suite housing MET-150 through MET-155 with card access at the entrance to the suite, but standard locks on individual rooms
Other:

Features:

Fenestration: No windows
Floor Finish: No carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: Four gigabit internet ports, one additional dedicated gigabit port
Audio Visual: Cable or satellite TV access
Distance Learning:
Ventilation / Exhaust: Enhanced HVAC needed given computer/server demand
Temperature: Standard for computer-server type room
Humidity: Standard for computer-server type room
Piped Services:
Electrical: 10 dual-port outlets, standard
Security: See “Proximities” section

Furnishings and Equipment:

2	Chairs		
2	High end desktop Windows computers		
	Cable guides on floor or ceiling		
1	8 foot by 4 foot corkboard/whiteboard		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **MET-150 + MET-152 (Please combine into one room)**
Space Name: **Control and Editing Room**
Quantity: **1**
Program Area/Group: **Meteorology / Weathercasting**

Number of Occupants: Varies (often 4–6)
Area & Min/Max Dim.: 300 NSF
Ceiling Height: Standard
Activity Description: Control and editing room for weathercasting
Adjacencies: MET-153+MET-153
Proximities: Should be part of an enclosed suite housing MET-150 through MET-155 with card access at the entrance to the suite, but standard locks on individual rooms
Other:

Features:

Fenestration: No windows
Floor Finish: Standard
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: Eight gigabit internet ports, one additional dedicated gigabit port
Audio Visual: Cable or satellite TV access
Distance Learning:
Ventilation / Exhaust: Enhanced HVAC needed given computer/server demand
Temperature: Standard for computer-server type room
Humidity: Standard for computer-server type room
Piped Services:
Electrical: 18 dual-port outlets, standard
Security: See “Proximities” section

Furnishings and Equipment:

6	Chairs	1	High End Mac for Video Editing
4	High end desktop Windows computers		
	Ample cable guides on floor or ceiling connecting to MET153 + MET154		
2	8 foot by 4 foot corkboard/whiteboard		
5	Computer Desks		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **MET-151**
Space Name: **Changing room**
Quantity: **1**
Program Area/Group: **Meteorology / Weathercasting**

Number of Occupants: 1 student
Area & Min/Max Dim.: 100 NSF
Ceiling Height: Standard
Activity Description: Clothes changing room for television presenters
Adjacencies:
Proximities: Should be part of an enclosed suite housing MET-150 through MET-155 with card access at the entrance to the suite, but standard locks on individual rooms
Other:

Features:

Fenestration: No windows
Floor Finish: No carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: One internet port
Audio Visual:
Distance Learning:
Ventilation / Exhaust:
Temperature:
Humidity:
Piped Services:
Electrical:
Security:

Furnishings and Equipment:

1	Full length dressing mirror		
1	Table (3 feet by 2 feet)		
1	Chair		
1	10 foot clothes rod (movable)		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number:	**MET-153 + MET-154 (please combine into one room)**
Space Name:	**Combined studio rooms**
Quantity:	**1**
Program Area/Group:	**Meteorology / Weathercasting**
Number of Occupants:	Varies
Area & Min/Max Dim.:	900 NSF
Ceiling Height:	Elevated ceiling (preferred ceiling height of 16 ft)
Activity Description:	
Adjacencies:	
Proximities:	Should be part of an enclosed suite housing MET-150 through MET-155 with card access at the entrance to the suite, but standard locks on individual rooms
Other:	30 foot by 30 foot square size if possible

Features:

Fenestration:	No windows
Floor Finish:	No carpet, sealed concrete floor with floor painted chroma key green
	Next to the two chroma key green walls, extending out 10 ft
Wall Finish:	Two adjacent walls painted chroma key green.
	Other two walls with acoustical sound reduction
	(Please see README from J. Ahlquist)
Ceiling Finish:	Acoustical sound reduction (please see README from J. Ahlquist)
Acoustical:	Acoustical sound reduction (please see README from J. Ahlquist)
Lighting:	Specialized (please see README from J. Ahlquist)
Other:	Framed nameplate outside entrance “George Winterling Studio”

System and Utility Requirements:

Data / Voice:	Six gigabit internet ports
Audio Visual:	Cable or satellite television connection
Distance Learning:	
Ventilation / Exhaust:	Standard
Temperature:	
Humidity:	
Piped Services:	
Electrical:	Fifteen dual electrical outlets. Challenge: Electric power needs to be able to be reach devices throughout the studio (cameras, etc.) that have standard 6-foot power cords. Will heavy-duty extension cords be a problem for the fire marshal?
Security:	

(Continued on next page)

Furnishings and Equipment:

1	Eight foot by four foot cork board	1	Four foot by two foot table, four feet high to hold monitor at side of chroma key wall.
2	Eight foot by four foot whiteboard	1	Four-drawer file cabinet
8	Chairs	2	High end desktop Windows computers
1	Eight foot by four foot table		Ample cable guides along floor or ceiling connecting to MET150 + MET152.
2	Four foot by two foot table		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **MET-155**
Space Name: **Storage room**
Quantity: **1**
Program Area/Group: **Meteorology / Weathercasting**

Number of Occupants: Varies
Area & Min/Max Dim.: 60 NSF
Ceiling Height: Standard
Activity Description: Storage room for weathercasting activities
Adjacencies:
Proximities: Should be part of an enclosed suite housing MET-150 through MET-155 with card access at the entrance to the suite, but standard locks on individual rooms
Other:

Features:

Fenestration: No windows
Floor Finish: No carpet
Wall Finish: Standard
Ceiling Finish: Standard
Acoustical: Standard
Lighting: Standard
Other:

System and Utility Requirements:

Data / Voice: One internet port
Audio Visual:
Distance Learning:
Ventilation / Exhaust:
Temperature:
Humidity:
Piped Services:
Electrical: Two standard dual-port electrical outlets
Security:

Furnishings and Equipment:

2	File cabinets		
1	4 foot by 3 foot cork board		
1	Bookshelf		

ROOM OR SPACE DATA COLLECTION SHEET

EOAS - COAPS

COA-1 TO COA-64

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **COA-1 - 8**
Space Name: **Teaching Faculty Office – Additional Space for a 2nd Door**
Quantity: **8**
Program Area/Group: **COAPS**

Number of Occupants:	1 + up to 3 guests
Area & Min/Max Dim.:	50 NASF for extra door in each office (total of 170 NASF for each office)
Ceiling Height:	9 ft
Activity Description:	Office + small meetings
Adjacencies:	
Proximities:	At the boundary between main EOAS area and COAPS suite
Other:	Storage Space

Features:

Fenestration:	2 interior doors with narrow door lights. 1 door leading to main EOAS area and 1 door leading to COAPS suite, since teaching faculty split their time between COAPS and the rest of EOAS. Windows on exterior wall.
Floor Finish:	Carpet
Wall Finish:	Standard painted
Ceiling Finish:	Standard acoustical tile
Acoustical:	Acoustical privacy to support confidential communication
Lighting:	Standard fluorescent
Other:	Wireless

System and Utility Requirements:

Data / Voice:	1 each, wireless internet connection
Audio Visual:	none
Distance Learning:	N/A
Ventilation / Exhaust:	Standard for office use; occupant control
Temperature:	Standard for office use
Humidity:	Standard for office use
Piped Services:	N/A
Electrical:	Standard for office use; back-up power
Security:	Private, key for office door but Swipe Card @ Suite;

Furnishings and Equipment:

1	Office Furniture		
3	Conference Table chairs		
1	Small Conference Table		
1	Bookshelves		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **COA-9 - 12**
Space Name: **Visiting Scientist Office**
Quantity: **4**
Program Area/Group: **COAPS**

Number of Occupants: 1 + up to 2 guests
Area & Min/Max Dim.: 120 NASF
Ceiling Height: 9 ft
Activity Description: Office
Adjacencies:
Proximities: Near post-docs, research faculty, and research staff
Other: Storage Space

Features:

Fenestration: Interior door with narrow door light.
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite;

Furnishings and Equipment:

1	Office Furniture		
2	Guest Chairs		
1	Bookshelf		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **COA-13 to 19**
Space Name: **Post-doc Offices**
Quantity: **7**
Program Area/Group: **COAPS**

Number of Occupants: 1
Area & Min/Max Dim.: 90 NASF
Ceiling Height: 9 ft
Activity Description: Office
Adjacencies:
Proximities: Near COAPS research faculty and staff
Other: Storage Space

Features:

Fenestration: Interior door with narrow door light
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite;

Furnishings and Equipment:

1	Office Furniture		
1	Bookshelves		
2	Guest Chairs		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **COA-20 to 35**
Space Name: **Research Faculty Office**
Quantity: **15**
Program Area/Group: **COAPS**

Number of Occupants: 1 + up to 3 guests
Area & Min/Max Dim.: 120 NASF
Ceiling Height: 9 ft
Activity Description: Office + small meetings
Adjacencies:
Proximities: Near post-docs and research staff
Other: Storage Space

Features:

Fenestration: Interior door with narrow door light, windows on exterior walls.
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite;

Furnishings and Equipment:

1	Office Furniture		
3	Conference Table chairs		
1	Small Conference Table		
1	Bookshelves		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **COA-36 to 43**
Space Name: **Research Staff Office**
Quantity: **8**
Program Area/Group: **COAPS**

Number of Occupants: 1 + 2 guests
Area & Min/Max Dim.: 120 NASF
Ceiling Height: 9 ft
Activity Description: Office
Adjacencies:
Proximities: Near post-docs and research faculty
Other: Storage Space

Features:

Fenestration: Interior door with narrow door light
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite;

Furnishings and Equipment:

1	Office Furniture		
2	Guest Chairs		
1	Bookshelves		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **COA-44 to 54**
Space Name: **Administration Office**
Quantity: **11**
Program Area/Group: **COAPS**

Number of Occupants: 1 + 2 guests
Area & Min/Max Dim.: 120 NASF
Ceiling Height: 9 ft
Activity Description: Office
Adjacencies:
Proximities: Near assistant to the director and office storage
Other: Storage Space

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 each, wireless internet connection
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite;

Furnishings and Equipment:

1	Office Furniture		
2	Guest Chairs		
1	Bookshelf		
2	File cabinets		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **COA-55 to 56**
Space Name: **Systems Administrator Office**
Quantity: **2**
Program Area/Group: **COAPS**

Number of Occupants: 1 + 2 guests
Area & Min/Max Dim.: 120 NASF
Ceiling Height: 9 ft
Activity Description: Office
Adjacencies:
Proximities: Near computer lab and office storage
Other: Storage Space

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 4 data, 1 voice, wireless internet connection
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Extra for system administrator use; back-up power
Security: Private, key for office door but Swipe Card @ Suite;

Furnishings and Equipment:

1	Office Furniture		
2	Guest Chairs		
1	Bookshelves		
2	Computer work tables		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **COA-57 to 58**
Space Name: **Climate Center Office**
Quantity: **2**
Program Area/Group: **COAPS**

Number of Occupants: 1 + up to 3 guests
Area & Min/Max Dim.: 120 NASF
Ceiling Height: 9 ft
Activity Description: Office + small meetings
Adjacencies:
Proximities:
Other: Storage Space

Features:

Fenestration: Interior door with narrow door light, windows on exterior walls.
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 data, 1 conference phone, wireless internet connection
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite;

Furnishings and Equipment:

1	Office Furniture		
3	Conference Table chairs		
1	Small Conference Table		
2	Bookshelves		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **COA-59**
Space Name: **Director's Office**
Quantity: **1**
Program Area/Group: **COAPS**

Number of Occupants: 1 + up to 5 guests
Area & Min/Max Dim.: 200 NASF
Ceiling Height: 9 ft
Activity Description: Office + small meetings
Adjacencies: Assistant to the director
Proximities:
Other: Storage Space

Features:

Fenestration: Interior door with narrow door light plus connecting door to assistant to the director's office, windows on exterior walls.
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 2 data, 1 voice (conference phone), wireless internet connection
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite;

Furnishings and Equipment:

1	Office Furniture		
5	Conference Table chairs		
1	Small Conference Table		
3	Bookshelves		
4	Filing cabinets		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **COA-60**
Space Name: **Assistant to the Director Office**
Quantity: **1**
Program Area/Group: **COAPS**

Number of Occupants: 1 + up to 4 guests
Area & Min/Max Dim.: 180 NASF
Ceiling Height: 9 ft
Activity Description: Office + small meetings
Adjacencies: Director
Proximities: Administration staff offices
Other: Storage Space

Features:

Fenestration: Interior door with narrow door light plus connecting door to director's office, windows on exterior walls.
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Acoustical privacy to support confidential communication
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 2 data, 1 voice, wireless internet connection
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust: Standard for office use; occupant control
Temperature: Standard for office use
Humidity: Standard for office use
Piped Services: N/A
Electrical: Standard for office use; back-up power
Security: Private, key for office door but Swipe Card @ Suite;

Furnishings and Equipment:

1	Office Furniture		
4	Conference Table chairs		
1	Small Conference Table		
1	Bookshelf		
3	Filing Cabinets		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **COA-61**
Space Name: **Large Conference Room**
Quantity: **1**
Program Area/Group: **COAPS**

Number of Occupants: 50
Area & Min/Max Dim.: 1,000 NASF
Ceiling Height:
Activity Description: Seminars and large meetings
Adjacencies:
Proximities: Away from faculty offices (so the noise from meetings doesn't bother them).
Other:

Features:

Fenestration: At least 2 interior doors with narrow door light
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: Data for smart classroom, 1 conference phone, 1 videoconferencing system, wireless internet connection
Audio Visual: Smart classroom, digital classroom equipment
Distance Learning: N/A
Ventilation / Exhaust: Standard for seminar use
Temperature: Standard for seminar use
Humidity: Standard for seminar use
Piped Services: N/A
Electrical: Standard for seminar use; back-up power
Security: Swipe Card

Furnishings and Equipment:

2	Whiteboard(s)	10	Seminar Tables
1	Projection Screen	50	Seminar Chairs
1	Speakers		
1	LCD monitor		
1	Video projector		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **COA-62**
Space Name: **Small Conference Room**
Quantity: **1**
Program Area/Group: **COAPS**

Number of Occupants: 25
Area & Min/Max Dim.: 500 NASF
Ceiling Height:
Activity Description: Meetings
Adjacencies:
Proximities:
Other:

Features:

Fenestration: At least 2 interior doors with narrow door light
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 1 conference phone, 1 videoconferencing system, wireless internet connection
Audio Visual: Projector, screen, and computer station
Distance Learning: N/A
Ventilation / Exhaust: Standard for meeting use
Temperature: Standard for meeting use
Humidity: Standard for meeting use
Piped Services: N/A
Electrical: Standard for meeting use; back-up power
Security: Swipe Card

Furnishings and Equipment:

2	Whiteboard(s)	1	Conference Table
1	Projection Screen	25	Conference Chairs
1	Speakers		
1	LCD monitor		
1	Video projector		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **COA-63**
Space Name: **Office Storage**
Quantity: **1**
Program Area/Group: **COAPS**

Number of Occupants: 0
Area & Min/Max Dim.: 500 NASF
Ceiling Height:
Activity Description: Storage
Adjacencies: Computer lab
Proximities: System administrator offices and administrative offices
Other:

Features:

Fenestration: 1 interior door
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 10 data connections
Audio Visual: N/A
Distance Learning: N/A
Ventilation / Exhaust: Standard for computer and other office equipment storage
Temperature: Standard for computer and other office equipment storage
Humidity: Standard for computer and other office equipment storage
Piped Services: N/A
Electrical: Standard for computer and other office equipment storage; back-up power
Security: Swipe Card

Furnishings and Equipment:

10	Tall cabinets with doors		
4	Work tables		
4	Tall storage shelves		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **COA-64**
Space Name: **Computer Lab (not a teaching space)**
Quantity: **1**
Program Area/Group: **COAPS**

Number of Occupants: 10
Area & Min/Max Dim.: 500 NASF
Ceiling Height:
Activity Description: GIS Instruction with student computer stations
Adjacencies: Office Storage
Proximities: System administrator offices
Other:

Features:

Fenestration: Interior door with narrow door light, windows to outside
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 10 data, wireless
Audio Visual:
Distance Learning: N/A
Ventilation / Exhaust: Standard for computer lab; extra ventilation for computer heat load
Temperature: Standard for computer lab
Humidity: Standard for computer lab
Piped Services: N/A
Electrical: Standard for computer lab; back-up power
Security: Swipe Card

Furnishings and Equipment:

1	Whiteboard(s)		
10	Computer workstations		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: **COA-65**
Space Name: **Research Vessel Data Center**
Quantity: **1**
Program Area/Group: **COAPS**

Number of Occupants: 10
Area & Min/Max Dim.: 500 NASF
Ceiling Height:
Activity Description: Computer stations/desks for undergraduates and programmers plus small meetings
Adjacencies:
Proximities: Research staff
Other:

Features:

Fenestration: Interior door with narrow door light
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 10 data, wireless
Audio Visual:
Distance Learning: N/A
Ventilation / Exhaust: Standard for computer lab; extra ventilation for computer heat load
Temperature: Standard for computer lab
Humidity: Standard for computer lab
Piped Services: N/A
Electrical: Standard for computer lab; back-up power
Security: Swipe Card

Furnishings and Equipment:

2	Whiteboard(s)	1	Small conference table
10	Computer workstations with individual storage cabinets	5	Conference chairs
2	Bookshelves	4	File cabinets

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: COA-65
Space Name: Research Vessel Data Center
Quantity: 1
Program Area/Group: COAPS

Number of Occupants: 10
Area & Min/Max Dim.: 500 NASF
Ceiling Height:
Activity Description: Computer stations/desks for undergraduates and programmers plus small meetings
Adjacencies:
Proximities: Research staff
Other:

Features:

Fenestration: Interior door with narrow door light
Floor Finish: Carpet
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other: Wireless

System and Utility Requirements:

Data / Voice: 10 data, wireless
Audio Visual:
Distance Learning: N/A
Ventilation / Exhaust: Standard for computer lab; extra ventilation for computer heat load
Temperature: Standard for computer lab
Humidity: Standard for computer lab
Piped Services: N/A
Electrical: Standard for computer lab; back-up power
Security: Swipe Card

Furnishings and Equipment:

2	Whiteboard(s)	5	Conference chairs
10	Computer workstations with individual storage cabinets		
2	Bookshelves		
4	File cabinets		
1	Small conference table		

ROOM OR SPACE DATA COLLECTION SHEET

Space Number: COA-XX
Space Name: Instrument and Electronics Lab
Quantity: 1
Program Area/Group: COAPS

Number of Occupants:
Area & Min/Max Dim.: 200 NSF
Ceiling Height:
Activity Description: Work room to clean, calibrate, and test meteorological instrumentation used in marine deployments.
Adjacencies:
Proximities: Near Research Vessel Data Center in COAPS
Other:

Features:

Fenestration: Interior door with narrow door light
Floor Finish: Tile
Wall Finish: Standard painted
Ceiling Finish: Standard acoustical tile
Acoustical: Standard
Lighting: Standard fluorescent
Other: Cabinets, shelves for storage

System and Utility Requirements:

Data / Voice: 3 data, 1 voice + wireless internet connection
Audio Visual: none
Distance Learning: N/A
Ventilation / Exhaust:
Temperature: Standard for computer lab, extra ventilation for electronics/computer load
Humidity: Standard for computer lab
Piped Services: Fresh water
Electrical: Outlets standard for computers; some mounted at bench height; GFCI (or similar for safety); back-up power
Security: Swipe Card

Furnishings and Equipment:

1	Desk space for computers		
1	Whiteboard		
	Bench space for instruments		
1	Work sink (laundry tub size)		

Exhibit 6

Site Photographs

This Exhibit contains photographs of the proposed site and its surroundings.

The Gunter Bldg. as seen from the W. Tennessee St. at the N. Woodward Ave. intersection.

N. Woodward Ave. at the W. Tennessee St. intersection. View to the West.

Looking west along W. Tennessee St. at N. Woodward Ave. intersection as heavy traffic approaches. The University President's House is beyond sign and trees on right side of picture.

W. Tennessee St. at N. Woodward Ave. northeast intersection. St. Thomas More Co-Cathedral is in background.

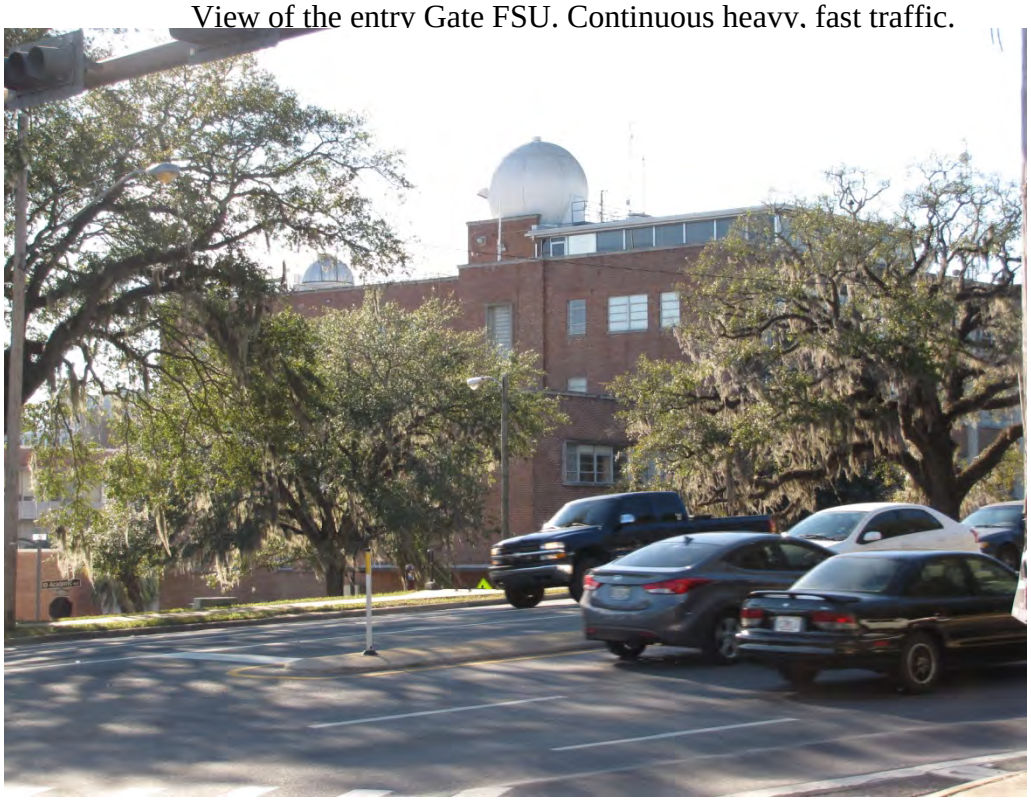
View to the east across six lanes of traffic along W. Tennessee St. at N.Woodward Ave. intersection.

Photo taken from northeast corner of W. Tennessee St. and N. Woodward Ave. looking south toward N. Woodward Ave. entrance of the University.

Pedestrians, joggers and vehicles at W. Tennessee St. at N. Woodward Ave. intersection.

Looking south on W. Tennessee St. at N. Woodward Ave. intersection. N. Woodward Gate entrance sign is on the left.

View of the entry Gate FSU. Continuous heavy, fast traffic.



Six lanes of heavy vehicular traffic on W. Tennessee St. near the N. Woodward Ave. intersection. The Love Building is beyond the oak trees.

From N. Woodward Ave. overpass looking below at Academic Way.

View to the West. Campus bus route and perimeter parking.

Looking across lawn at East façade if the Gunter Bldg. Its main entrance is the curved portion on the right side. Stepped retaining wall allows for surface parking.

On right is the brick pier at N. Woodward Gate of Florida State University. Beyond the palm trees is the Carraway Bldg.

Gated surface parking dedicated to DEP use with east façade of the Gunter Bldg. beyond palm trees.

Gated surface parking for dedicated DEP use. East façade of Gunter Bldg. is on the right beyond palm trees. North façade of the Carraway Building is in the distance on the left.

The Gunter Building south façade. Antarctic Way in the foreground.

The west façade of the Gunter Bldg. with a portion of its south façade on the left. Antarctic Way is in the foreground with gated DEP dedicated parking lot just beyond. The Carraway Bldg is on the right in the distance.

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Looking east along Academic Way at Antarctic Way intersection. Bus stop sign for campus routes is on the right in the sidewalk. To the right is the north façade of the Gunter Bldg. Bus is approaching the Woodward underpass and vehicles are parallel parked on the north side of Academic Way.

Antarctic Way with gated dedicated DEP parking. The Gunter Bldg on the extreme left, north façade of the Carraway is in the middle and the Woodward Parking Garage is on the right. Fences surface are adjacent to the west side of the Carraway Bldg is the roof of the AMGRF (Carraway Annex).

From Antarctic Way corner, looking northeast at Academic Way crosswalk. Stair ascends to W. Tennessee St. sidewalk. Woodward Ave. underpass is in distance to the right.

Looking north at Academic Way near Antarctic Way intersection. Eroded slope between Tennessee St. and Academic Way.

Academic Way near Antarctic Way intersection looking east. Woodward underpass in the background.

Academic Way at Antarctic Way intersection, looking south. The Gunter Bldg. is on the left and the Woodward Ave. Parking Garage in the background.

Pedestrian pathways and green space between Carothers and Love Bldgs, west of the proposed EOAS site.

North and West facades of the Carraway Building. Roof of the Antarctic Marine Geology Research Facility.

North façade of the Carraway Building. Electrical switchbox on the site.

Roof of the Antarctic Marine Geology Research Facility. Antarctic Way in the foreground.

Antarctic Way just west of the N. Woodward Ave. intersection. Dedicated DEP parking in the foreground and a portion of the north façade of the Carraway Bldg is on the right.

Carraway Bldg. as seen from Antarctic Way just west of the N. Woodward Ave. intersection. Reserved service vehicle parking is on the north side of the building.

From Woodward Avenue, pier of N.Woodward Gate to Florida State University with north façade of the Carraway Bldg behind.

Looking northwest at the pedestrian pathway and greenspace between Carraway Bldg. and Woodward Ave. Parking Garage/Bookstore. Bicycle racks on the right.

South façade of the Carraway Building.

South façade of the Carraway Building and rock garden. Entry to the Antarctic Marine Geology Research Facility is the single story white building on the right.

Pedestrian pathways and vegetation to the southeast of the site. This is the area between the proposed EOAS site and the Woodward Ave. Parking Garage/Bookstore.