



**Florida State University
Competitive Solicitation
Acknowledgement Form**

Submit Response To:

Procurement Services
Florida State University
282 Champions Way, UCA 1400
Tallahassee, FL 32306-2370
Phone (850) 644-6850 | Fax (850) 644-8921
www.procurement.fsu.edu

CS No: FAC1700111-17 **Title:** Keen Bldg. Lab 619 Renovations

Date of Issue: August 29, 2017 **Response Due Date and Time:** September 14, 2017

CS Point of Contact

Name: Veronica Cline **Phone:** 850-644-7639 **Email:** vcline@fsu.edu

Vendor Information

Federal Employer Identification Number or SS Number:

Company Name: _____ **Reason for no offer:** _____

Mailing Address: _____

City, State, Zip Code: _____ **Posting of Competitive Solicitation Tabulations**

Area Code _____ **Telephone no.** _____

Toll Free no. _____

Fax no. _____

Email Address: _____

Proposal tabulations with intended award(s) will be posted for review by interested parties at Procurement Services and our solicitation web page and will remain posted for a period of 72 hours. Failure to file a protest within the time prescribed in Florida Board of Governors Regulation 18.002 and FSU Regulation FSU 2.015, or failure to post the bond or other security as required in Florida Board of Governors Regulation 18.003, shall constitute a waiver of proceedings under that regulation.

Government Classifications
Check all applicable

- African American
- American Women
- Asian-Hawaiian
- Government Agency
- Hispanic
- MBE Federal
- Native American
- Non-Minority
- Non-Profit Organization
- Pride
- Small Business Federal
- Small Business State
- Veteran/Service Disabled

I certify that this offer is made without prior understanding, agreement, or connection with any corporation, firm or person submitting an offer for the same materials, supplies, or equipment and is in all respects fair and without collusion or fraud. I agree to abide by all conditions of this offer and certify that I am authorized to sign this offer for the responder and that the responder is in compliance with all requirements of the Competitive Solicitation, including but not limited to, certification requirements. In submitting an offer to an agency for the State of Florida, the responder offers and agrees that if the offer is accepted, the responder will convey, sell, assign or transfer to the State of Florida all rights, title and interest in and to all causes of action it may now hereafter acquire under the Anti-trust laws of the United States and the State of Florida for price fixing relating to the particular commodities of services purchased or acquired by the State of Florida. At the State's discretion, such assignment shall be made and become effective at the time the purchasing agency tenders final payment to the responder.

Printed Name/Title

Authorized Signature

**FLORIDA STATE UNIVERSITY
INVITATION TO BID
FAC1700111-17
KEEN BUILDING, LAB 619 RENOVATIONS**

STATEMENT OF OBJECTIVE

The objective of this Invitation to Bid (ITB) is to enable Florida State University (FSU) to enter into a purchase order (PO) with a Respondent to provide services for the Lab 619 renovations at Keen Building.

DEFINITIONS

- a. **Purchase Order/Contract** – The Purchase Order (PO) or other form or format, provided to the awarded Respondent(s), FSU uses to make a purchase under the contract term, which includes a formal written PO, electronic PO, Procurement Card (P-card), or any other means authorized by Procurement Services and which incorporates the requirements and conditions listed in the Bid.
- b. **Invitation to Bid** – a written or electronically posted solicitation for competitive sealed replies to select one or more Respondents to procure commodities or services during the term of the contract.
- c. **May, Should** – Indicates something that is not mandatory, but permissible, recommended, or desirable.
- d. **Minor Irregularities** – irregularities that have no adverse effect on FSU's interest, will not affect the amount of the ITB and will not give a Respondent an advantage or benefit not enjoyed by another Respondent.
- e. **Must, Shall, Will** – The words "shall," "must," or "will" are equivalent and indicate mandatory requirements or conditions. FSU will not waive Responder's material deviation from any of the mandatory requirements.
- f. **Response** – The entirety of the Respondent's submitted bid response to the ITB, including any and all supplemental information submitted.
- g. **Respondent** - Anyone who submits a timely bid in response to this ITB.
- h. **Responsible Respondent** – A Respondent that has submitted a bid that conforms in all material respects to the solicitation
- i. **Responsive Bid** – A bid submitted by a responsive and responsible Respondent that conforms in all material respects to the solicitation.
- j. **Sole Point of Contact** - The Procurement Officer or designee to whom Respondents shall address any questions regarding the solicitation or award process. The sole point of contact shall be the arbitrator of any dispute concerning performance of the Contract.
- k. **Successful Respondent** - The firms or individual who is the recommended recipient of the award of a contract under this ITB (also synonymous with "Payee", "Offerer," "Contractor" and "Vendor"). If a Respondent is a manufacturer, its certified dealers and resellers may also furnish products under the Contract; in choosing to do so, the dealers and resellers agree to honor the Contract and the term "contractor" shall be deemed to refer to them. Unless awarded the

Contract as a direct Respondent, however, dealers and resellers are not parties to the Contract, and the Respondent that certifies them shall be responsible for their actions and omissions.

- I. **University** – Florida State University, Florida State University Board of Trustees is a public body corporate of the State of Florida.

I. INITIAL CONTRACT PERIOD AND RENEWAL OPTION

The contract term is anticipated to be from the date of the executed purchase order until the completion of requested repairs. Any and all renewals are subject to satisfactory performance evaluations by FSU and must be executed in advance by written instrument agreed to by both parties. All terms and conditions of the original agreement will remain in force for the renewal period

II. SOLE POINT OF CONTACT

Veronica Cline
Facilities Purchasing
969 Learning Way, Rm. 102A
Tallahassee, FL 32306-2370
Phone: 850-644-7639
Email: vcline@fsu.edu

Preliminary questions relative to the ITB document and/or process must be submitted in advance by email to the FSU sole point of contact no later than the day and time shown in the Calendar of Events as the last day to submit questions. FSU may respond to questions via an addendum that will be posted to the Facilities Purchasing website. At all times it shall remain the responsibility of the Respondent participating in the ITB to check the website for postings of addenda, notices or award decisions. No further notice will be given.

Only those communications that are in writing from Procurement Services shall be considered as a duly authorized expression on behalf of FSU. Respondents may not consider any verbal instructions as an official expression on FSU's behalf. **QUESTIONS DIRECTED TO, OR ANY RESPONSES RECEIVED FROM ANY OTHER DEPARTMENT, PERSON, AGENT, OR REPRESENTATIVE OF FSU WILL NOT BE CONSIDERED VALID OR BINDING.** Also, FSU will recognize only communications from Respondents that are signed and in writing as duly authorized expressions on behalf of the Respondent.

Respondents to this ITB or persons acting on their behalf shall not contact any employee or officer of FSU, Board of Trustees, or a University Direct Support Organization concerning any aspect of this ITB, except in writing to the Sole Point of Contact or Chief Procurement Officer or as provided in this ITB document, from the date of release of this ITB through the end of the 72-hour period following FSU's posting of the notice of intended award, in accordance with Board of Governors (BOG) Regulation 18.002. Violation of this provision may be grounds for rejecting a response. If there are any changes or additions to the sole point of contact information at any time in the process, participating companies will be notified via an addendum to the ITB.

III. CALENDAR OF EVENTS

Task	Date
FSU Issues ITB	08/29/2017 @ 5:00pm

Mandatory Pre-Bid Meeting & Site Visit @ Keen Bldg. Room 619	09/06/2017 @ 10:00am
Written Questions from Respondents	09/13/2017 @ 1:00pm
FSU Issues Answers to Questions via addendum	09/18/2017 @ 5:00pm
Written Bid Responses Due from Respondents	09/22/2017 @ 2:00pm
FSU Posts Intent to Award on or about	09/27/2017 @ 11:00am

**If applicable, site visit information outlined under the Calendar.

Unless otherwise revised by a subsequent addendum to this ITB, the dates and times by which stated actions should be taken or completed are listed above. If FSU determines, in its sole discretion, that it is necessary to change any of these dates and times, it will issue an Addendum to the ITB and issue a Notice of Addendum on the Procurement Services website. All times listed are Eastern Standard Time (EST). It is the Respondent's responsibility to check the Procurement Services website for any updates or addendums to this ITB.

IV. SPECIFICATIONS

Demo and renovate space 619 of the Keen Building. Renovations include new lab cabinetry, refinish existing lab tables top surfaces. Install new shelving and maker boards. Other work to include mechanical and electrical work. Clean and paint exposed HVAC equipment; replace supply air louver grille.

Remove existing mop sink, maintain 1 water supply for cup sink at workstation
Remove existing fume hood and associated infrastructure

Electrical:

Remove abandoned utilities/ conduit infrastructure and existing light fixtures
Provide new light fixtures, provide 2 data receptacles per wall
Provide cable tray at room perimeter, including bridge connection

Design document attached to end of this packet.

FSU May:

- Reject any and all bids or any part thereof, to waive informalities, and to make single or multiple awards. Incomplete bids may not be considered in the evaluation.
- Reserve the right to inspect and investigate thoroughly the establishment, facilities, equipment, business reputation and other qualifications of the Respondent(s) and any subcontractors and to reject any bid irrespective of pricing and financial terms if it is determined that the Respondent is deficient in any of the essentials necessary to assure acceptable standards of performance in the services of this ITB.
- Reserve the right to refrain from notifying the unsuccessful Respondent(s) that their bids have not been awarded by FSU until after FSU has entered into a binding agreement with the successful Respondent(s).
- Reserve the right to ask for clarifications of a bid response.

FSU Will:

- Reject bids not received by the written bid due date/time required by the ITB.
- Reject any bid that fails to meet mandatory specifications (i.e. functional, cost or contractual requirements) stated in the ITB.

V. Formatting

a. Response Format

1. Submit one (1) original and 2 copies of the bid in hard copy form. The original response shall contain the original manual signature of the authorized person signing the bid, and the electronic copy of the bid. Failure to include the original bid response and all signed copies may be grounds for rejection of your bid without further evaluation.
2. Each Respondent's bid response shall include the information and required submittals described and as requested in the ITB.
3. Questions and requests for information may not be rearranged, regrouped, or divided in any way.
4. All information and required submittals requested SHALL BE in hardcopy and included in your written bid response. Responses shall not refer FSU to electronic media such as websites, CD's, disks, or tapes in order to obtain the required information or submittals.
5. Information submitted that is not requested by FSU may be considered to be supplemental, not subject to evaluation.
6. If there is any information or required submittals which due to size or binding cannot be incorporated, the Respondent must provide information, telling the Sole Point of Contact where the information can be found in the response.
7. The Addenda Acknowledgement form shall be signed by a company representative, dated and returned to FSU by the date specified in Section V. for the bid due date/time. Failure to return an Addenda Acknowledgement form issued for this ITB may be grounds for rejection of the bid response.

Note: If Respondent's bid deviates from these instructions, such bid may, at FSU's sole discretion, be REJECTED.

Note: Any award hereunder is subject to the provisions of Chapter 112, F.S. All Respondents must disclose with their bid the name of any officer, or agent who is also an employee of the State of Florida, or any of its agencies. Further, all Respondents must disclose the name of any State employee who owns, directly or indirectly, an interest of five (5) percent or more in the Respondent's firm or any of its branches.

Effective Period of Bids. Under this ITB, Bidder responses shall remain firm for a period of no less than ninety (90) days following the closing date, in order to allow time for evaluation, approval, and award of the purchase order/contract. Any bidder who does not agree to this condition shall specifically communicate in its bid response such disagreement to the University, along with any proposed alternatives. This University may accept or reject such proposed alternatives without further notification or explanation.

Mistakes/Errors. Respondents are expected to examine the specifications, delivery schedule and all instructions pertaining to supplies and services. Failure to do so will be at Respondent's risk. In case of a mistake in extension, the unit price will govern.

Condition and Packaging. It is understood and agreed that any item offered or shipped as a result of this ITB shall be new, or a current standard production model available at the time of this response. All containers shall be suitable for storage or shipment, and all prices shall include standard commercial packaging.

Discounts. A cash discount for prompt pay may be offered. However, such discounts shall not be considered in determining the lowest net cost for response evaluation purposes. Discounts will be computed from the date of satisfactory delivery at place of acceptance or from receipt of a correct invoice at the office specified, whichever is later. Respondents are encouraged to reflect cash discounts in the unit prices proposed.

Taxes. FSU, as an agency of the State of Florida, is entitled to the benefits of sovereign immunity including immunities from the payment of federal excise and state sales taxes on direct purchases of tangible personal property or services by the Respondent in the performance of the contracts with FSU.

- a. The response submitted to this ITB should enumerate a lump sum fixed fee.
- b. Provide the number of hours anticipated to complete the scope of services. Include detail as to various personnel who will be involved in the activities that will be completed during the engagement.
- c. List any other categories of ancillary expenses that may be billed. Note: FSU will not reimburse for travel, meals, or lodging expenses.

VIII. DELIVERY OF BIDS

The original and number of copies specified above shall be mailed to the FSU Sole Point of Contact noted above. These copies must be received within Procurement Services no later than the date and time noted in the Calendar of Events. Emailed and faxed copies are not acceptable and shall be considered as an invalid response.

Note: Delivery to any other point on, or off campus is NOT acceptable and shall be grounds for rejection of the ITB.

- a. All bid responses must contain the Competitive Solicitation Acknowledgement form with a manual signature (or a facsimile). Bids must be typed except for those areas where the ITB specifically allows hand written entries. If submitted by mail, do not include more than one response in a sealed envelope or package. The face of the envelope or package shall contain the Procurement Services address as provided in this ITB, the date and time of the bid opening and the ITB number. Bids submitted on any attached response form or in another specified media may be rejected. Any manual changes made to a ITB price must be initialed. All bids are subject to the conditions specified herein. Any response that does not comply with these conditions will be rejected.
- b. DO NOT ALTER THIS ITB document IN ANY WAY. The only acceptable changes or alterations to this ITB will be made in the form of addenda and issued only by FSU Procurement Services.
- c. Only fully capable and responsible companies or individuals, who are in good standing with the State of Florida and FSU, who can demonstrate the ability to fulfill all specifications, and that possess the financial capability, experience, and personnel resources to provide all goods and services of the scope and breadth described in this ITB should respond.
- d. The Respondent submitting the bid warrants that, to the best of their knowledge, there is no pending or threatened action, proceeding, or investigation, or any other legal or financial

condition, that would in any way prohibit, restrain, or diminish its ability to satisfy Contract obligations, should a contract be awarded.

- e. **No Bid Submitted.** If not submitting a response to this ITB, respond by returning only the ITB Competitive Solicitation Acknowledgement Form with the statement “NO RESPONSE” written on it and a brief explanation in the space provided on that form. Failure to respond to an ITB by not returning a response or this acknowledgement form may result in removal of your company from the FSU's ITB bidder database.
- f. **Delivery Deadline.** The absolute deadline for receipt of sealed responses is listed in Section V. The clock in the lobby of Procurement Services shall be the official timepiece for determining if a response has been received at the correct time. FSU is not responsible for lost, misdirected or mis-delivered, or late bid packages for Respondent(s) using delivery services/carriers (i.e. USPS, FedEx, DHL, UPS, etc.).
- g. **Samples.** Samples of items, when called for, must be furnished free of expense, and if not destroyed, may, upon request, be returned at the Respondent's expense. Each individual sample must be labeled with Respondent's name, manufacturer's brand name and number, ITB number and item reference. A request for return of samples shall be accompanied by instructions which include shipping authorization and name of carrier and must be received with your bid. If instructions are not received within this time, the samples shall be disposed of by FSU.
- h. **Disqualification of Respondent.** Only one bid response from an individual, firm, partnership, corporation or association under the same or different names will be considered. Reasonable grounds for believing that a Respondent is involved in more than one bid response for the same ITB will be cause for rejection of the highest bid response in which such Respondents are believed to be involved. Any or all bids will be rejected if there is reason to believe that collusion exists between Respondents. Bids in which the prices obviously are unbalanced will be subject to rejection.
- i. **Bid Materials.** The materials submitted in response to this ITB become the property of FSU upon delivery to Procurement Services.

Important Note Regarding Written Bid Response

The determination of the companies selected will be based on evaluation of the written response submitted. Any response that does not provide complete, accurate, and detailed answers to each question or which indicates the company prefers to defer providing complete details until a later stage in the process, may be declared non-responsive and rejected without further evaluation or consideration.

IX. RESPONSIVENESS AND RESPONSIBILITY DETERMINATION

Responsiveness Determination

A bid response that is considered responsive is one that conforms to all essential requirements and satisfies all mandatory conditions set forth in the ITB specifications. Essential requirements and mandatory conditions can include required qualifications, necessary company resources and experience, pre-qualification requirements, and required certifications, and various other required or mandatory specifications. Section 287.012(25) F.S. defines a “responsive bid, responsive proposal, or responsive reply” as “a bid, proposal, or reply submitted by a responsive and responsible vendor that conforms in all material respects to the solicitation.” Section 287.012(26) F.S. defines a “responsive vendor” as “a vendor that has submitted a bid, proposal, or reply that conforms in all material respects to the solicitation.”

Responsibility Determination

A Respondent is responsible if it can perform the contract as promised. Thus, the concept of responsibility focuses on the Respondent's trustworthiness, quality, fitness and capacity to satisfactorily perform. Determining whether a Respondent is responsible can include evaluation of the following: financial resources, performance schedule, performance record, organization and skills, equipment and facilities, and various other matters relating to the ability of a Respondent to perform the contract. Section 287.012(24) F.S. defines a "responsible vendor" as "a vendor who has the capability in all respects to fully perform the contract requirements and the integrity and reliability that will assure good faith performance."

X. MANUFACTURER'S NAMES, APPROVED EQUIVALENTS, BEST VALUES, OR SOLUTIONS

Any manufacturers' names, trade names, brand names, or catalog numbers used in the specifications are there for the purpose of establishing and describing general performance and quality levels. Such references are not intended to be restrictive and responses are invited on comparable brands or products of any manufacturer. The Respondent may propose any equivalent brand or product that meets or exceeds the specifications for an item(s). However, a Respondent shall not be allowed to bid more than one brand or equivalent products on any one item. It is the Respondent's responsibility to select the single equivalent brand or product that his/her firm sells which meets all specifications and is the lowest in cost. If a Respondent bids more than one equivalent brand or product on an item, only the equivalent brand or product bidding the lowest response shall be considered. If a bid is based on an equivalent brand or product the manufacturer's name and number must be indicated on the response form. Respondent shall submit with the bid, cuts, sketches, and descriptive literature, and/or complete specifications. Reference to literature submitted with a previous bid will not satisfy this provision. The Respondent shall also explain in detail the reason(s) why the proposed equivalent will meet the specifications and not be considered an exception thereto. In addition, if a Respondent has more than one best value or solution for a ITB, they should base their bid response on the best value or solution that meets FSU's requirements in the written ITB process. FSU reserves the right to determine acceptance of item(s) as an approved equivalent or best values and solutions. Bids which do not comply with these requirements are subject to rejection. Bids lacking any written indication of intent to bid an alternative brand will be received and considered incomplete of compliance with the specifications as listed on the ITB document. The Sole Point of Contact in Procurement Services is to be notified of any proposed changes in (a) materials used, (b) manufacturing process, or (c) construction. However, changes shall not be binding upon FSU unless evidenced by an addendum issued by Procurement Services.

XI. INTERPRETATIONS

Respondents shall examine the ITB to determine if FSU's requirements are clearly stated. If there are any requirements that are too vague or restrict competition, the Respondent may request, in writing, that the specifications be changed. A Respondent who requests changes in the specifications must identify and describe the Respondent's difficulty in meeting FSU's specifications; must provide detailed justification for the change, and must provide a recommended change in the specifications. Any questions concerning ITB conditions and specifications shall be directed in writing to the Sole Point of Contact for receipt by the date specified in the Calendar of Events. Inquires must reference the date of ITB opening and ITB number. No interpretation shall be considered binding unless provided in writing by the FSU in response to a request in full compliance with this provision. Oral or late requests will not be valid. A Respondent's failure to request changes by the permissible date shall be considered an acceptance of FSU's specifications and a waiver of the Respondent's right to protest the ITB specifications. FSU reserves the right to determine which changes to the ITB shall be acceptable.

XII. NONCONFORMANCE TO BID CONDITIONS

Items may be tested and/or inspected for compliance with specifications by any appropriate testing facilities. Should the items fail testing, FSU may require the Respondents to reimburse FSU for all costs incurred by FSU in connection with the examination. The data derived from any test for compliance with specifications are public records and open to examination thereto in accordance

with Chapter 119, F.S. Items delivered not conforming to specifications may be rejected and returned at Respondent's expense. Items delivered which do not comply with the ITB specification and items not delivered as per delivery date in the ITB and/or purchase order may result in Respondent being found in default. In which event, any and all reprourement costs may be charged against the defaulting Respondent. Any violation of these stipulations may also result in Respondent's name being removed from Procurement Services bidder distribution list.

XIII. ADDITIONS, DELETIONS, SUBSTITUTIONS

Should FSU find it necessary to supplement, modify, correct, or interpret any portion of the ITB during the ITB period, such action shall be taken by issuance of a written Addendum to the documents distributed to all known prospective Respondents.

XIV. LEGAL REQUIREMENTS

Applicable provisions of all Federal, State, County, and local laws, and of all ordinances, rules and regulations shall govern development, submittal and evaluation of all bid responses received in response hereto and shall govern any response by FSU by and through its officers, employees, and authorized representatives, or any other person, natural or otherwise. Lack of knowledge by any Respondent shall not constitute a cognizable defense against the legal effect thereof.

XV. LOBBYING AND GRATUITIES

It shall be a breach of ethical standards for any employee of FSU or member of FSU Board of Trustees to accept, solicit, or agree to accept a gratuity of any kind, form or type in connection with this ITB or resulting contract for commodities or services.

The Respondent shall not, in connection with this ITB or any other contract with FSU, directly or indirectly (1) offer, confer, or agree to confer any pecuniary benefit on anyone as consideration for any FSU officer or employee's decision, opinion, recommendation, vote, other exercise of discretion, or violation of a known legal duty, or (2) offer, give, or agree to give to anyone any gratuity for the benefit of, or at the direction or request of, any FSU officer or employee. For purposes of clause (2), "gratuity" means any payment of more than nominal monetary value in the form of cash, travel, entertainment, gifts, meals, lodging, loans, subscriptions, advances, deposits of money, services, employment, or contracts of any kind.

Respondents are prohibited from using funds provided under contract or PO for the purpose of lobbying the Legislature or any official, officer, commission, board, authority, council, committee, or department of the executive branch or the judicial branch of state government.

XVI. ADVERTISING

In submitting a bid, Respondent agrees not to use the results therefrom as a part of commercial advertisement.

XVII. PUBLIC INSPECTION

All material submitted and opened becomes subject to the Public Records Law set forth in Chapter 119 F.S. This includes material which the Respondent might consider to be confidential or a trade secret. Any claim of confidentiality is waived upon submission, effective after ITB opening pursuant to Section 119.07, F.S. In accordance with Florida Statutes, sealed bids received by FSU pursuant to a ITB are exempt from Chapter 119.07(1) and s. 24(a), Art. I of the State Constitution until such time as FSU provides notice of an intended decision or until 30 days after opening the ITB bids, whichever is earlier.

If FSU rejects all bids submitted in response to an ITB and FSU concurrently provides notice of its intent to reissue the ITB, the rejected bids remain exempt from s. 119.07(1) and s. 24(a), Art. I of the State Constitution until such time as FSU provides notice of an intended decision concerning the reissued ITB or until FSU withdraws the reissued ITB. A bid is not exempt for longer than 12 months after the initial notice rejecting all bids.

XVIII. COMPETITIVE SOLICITATION (ITB) TABULATION

An ITB Tabulation that serves as the “Notice of Intended Decision” will be posted for review by interested parties on the Procurement Services website (<http://procurement.fsu.edu/CS Decisions>) and will remain posted for a period of seventy-two (72) hours. Any person who is adversely effected by FSU decisions or intended decisions as detailed above in connection with this ITB, shall file a written “Notice of Protest” with the Director of Procurement Services. Failure to file a protest within the time prescribed in accordance with BOG Regulation 18.002 and FSU Regulation FSU-2.015, or failure to post the bond or other security as required in BOG Regulation 18.003, shall constitute a waiver of right to protest.

XIX. COVERAGE AND PARTICIPATION

With the consent and agreement of the successful Respondent, and pursuant to their own governing laws, purchases may be made under this ITB by other universities, governmental agencies or political subdivisions within the State of Florida pursuant to BOG Regulation 18.001. Other entity purchases are independent of the contract between entity and awarded Respondent, and FSU shall not be a party to any transaction between the awarded Respondent and any other purchaser.

XX. SPECIAL ACCOMMODATIONS

It is recommended that Respondent(s) arrive approx. one (1) hour before the start time of any scheduled mandatory or non-mandatory site visit. Attendees must follow all FSU parking regulations. If you have questions regarding where or how to park on campus, please contact FSU Parking Services at (850) 644-5278. Any person requiring special accommodations should contact Procurement Services at 850-644-6850 and ask for the Sole Point of Contact noted in the ITB.

XXI. ADDITIONAL QUANTITIES

Unless otherwise noted in the ITB document, for a period not exceeding ninety (90) days from the date of award of the bid by FSU, the right is reserved to acquire additional quantities up to the amount shown on the ITB, but not to exceed \$75,000, at the prices listed on the bid response to this ITB. If additional quantities are not acceptable, the tabulation sheet must be noted “RESPONSE IS FOR SPECIFIED QUANTITY ONLY.”

XXII. CONFLICT BETWEEN DOCUMENTS

If any terms and conditions contained within the documents related to this ITB are in conflict with any other terms and conditions therein, then the various documents comprising this ITB, as applicable, shall govern in the following order of precedence: Change Order, Purchase Order, Addenda, ITB special Terms and Conditions, ITB Specifications, General Conditions of the ITB Acknowledgement form.

XXIII. PROPRIETARY OR CONFIDENTIAL INFORMATION.

If the Respondent needs to submit proprietary information with the bid, the Respondent shall ensure that it is enclosed in a separate envelope from the bid and that it is clearly designated and conspicuously labeled as such. Respondents who submit bids with information noted as proprietary or confidential may be asked to substantiate why the information is proprietary or is otherwise exempt from a public records request under Florida Law.

XXIV. PURCHASES OF TANGIBLE PERSONAL PROPERTY – PRICE PREFERENCES TO FLORIDA VENDORS (Attachment A – ATTESTATION OF PRINCIPAL PLACE OF BUSINESS):

Awards of Invitations to Bid: For purchases of tangible personal property, the 2012 Florida legislature enacted economic development laws establishing certain conditions and circumstances which, when applicable, require the granting of price preferences to businesses whose “principal place of business” is the State of Florida.

- Principal Place of Business Definition: Principal place of business is defined as location where a corporation's officers direct, control, and coordinate the corporation's activities (known as the nerve center test). In most states, corporations must report their principal place of business to the Secretary of State.
- Personal Property: When the most advantageous bid, or the best value reply is submitted by a Respondent whose principal place of business is in a state or political subdivision outside the State of Florida, which grants a preference for the same purchase to a vendor in such state or political subdivision, as applicable, then FSU shall grant the same preference to the responsible and responsive Resident Vendor with the most advantageous bid received, or the best value reply received pursuant to an Invitation to Bid.
With respect to Invitations to Bid, if the most advantageous bid or best value reply in that state does not grant a preference to companies having a principal place of business in that state, then no price preference will be granted.
Personal Property Definition: "Personal Property" shall be defined as goods and commodities, but not real estate, intellectual property or services.
- **IMPORTANT NOTICE**: Pursuant to Board of Governors Regulation 18.001, Respondents whose principal place of business is outside the state of Florida must include, with their ITB response document, a written statement, signed by an attorney at law licensed to practice in the Respondent's state (referred to as their "principal place of business" in the law), detailing geographical price preferences, if any or none, granted by the laws of that state or political subdivision.
- Note: The Respondent's principal place of business, as represented by the Respondent in its bid response, may be relied upon by FSU without further inquiry. If FSU determines that a Respondent has misrepresented its principal place of business, the Respondent's bid or reply shall be rejected.

XXV. CERTIFICATION OF ITB

Respondent agrees to be bound by the content of this bid and agrees to comply with the terms, conditions and provisions of the referenced ITB and any addenda thereto in the event of any award. Exceptions are to be noted as stated in the ITB. By signature on the Competitive Solicitation Acknowledgement form, the Respondent certifies that (1) bid did not involve collusion or other anti-competitive practices, (2) Respondent has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted bid, (3) Respondent certifies there is no employee of FSU, or whose relative has, a substantial interest in any Agreement subsequent to this ITB, (4) Respondent certifies they are not currently debarred, or suspended or proposed for debarment by any federal entity and agrees to notify FSU of any change in this status, should one occur, until such time as an award has been made under this procurement action and (5) Respondent certifies review of the ITB in its entirety and understands the terms and conditions contained herein and referenced below.

FSU's standard Insurance requirements:

<http://procurement.fsu.edu/sites/default/files/media/doc/StandardInsuranceProvisions.pdf>

FSU's standard Purchase Order Terms and Conditions:

<http://procurement.fsu.edu/sites/default/files/media/doc/Standard Terms and Conditions.pdf>

The Federal Acquisition Regulations for federally funded contracts:

<http://procurement.fsu.edu/sites/default/files/media/doc/FederalAcquisitionRegulations.pdf>

ATTACHMENT A

ATTESTATION OF PRINCIPAL PLACE OF BUSINESS

(To be completed by each Respondent)

ITB Number _____

Business Name _____

Identify the state in which the Respondent has its principal place of business _____

Signature of Respondent representative authorized to attest to the accuracy of all information _____

Typed or printed name of above signatory _____ Title: _____

INSTRUCTIONS:

IF your principal place of business above is located within the State of Florida, provide the information as indicated above and return this form with your bid response. No further action is required, however, falsely claiming Florida as your principle place of business, even unintentionally, may cause your bid to be deemed non-responsive and eliminated from further evaluation.

IF your principal place of business is outside of the State of Florida, the following must be completed by an attorney and returned with your bid response. Failure to comply may cause your bid to be deemed non-responsive and eliminated from further evaluation.

OPINION OF OUT-OF-STATE RESPONDENT ATTORNEY ON PREFERENCES

(To be completed by the Attorney for an Out-of-State Respondent)

NOTICE: FSU Regulation FSU-2.015, provides that “a vendor whose principal place of business is outside this state must accompany any written bid, proposal, or reply documents with a written opinion of an attorney at law licensed to practice law in that foreign state, as to the preferences, if any or none, granted by the law of that state [or political subdivision thereof] to its own business entities whose principal places of business are in that foreign state in the letting of any or all public contracts.”

LEGAL OPINION ABOUT STATE PREFERENCES

(Please Select One)

_____ The Respondent's principal place of business is in the State of _____ and it is my legal opinion that the laws of that state **do not grant a preference** in the letting of any or all public contracts to business entities whose principal places of business are in that state.

_____ The Respondent's principal place of business is in the State of _____ and it is my legal opinion that the laws of that state **grant the following preference(s)** in the letting of any or all public contracts to business entities whose principal places of business are in that state: [Please describe applicable preference(s) and identify applicable state law(s)]:

LEGAL OPINION ABOUT POLITICAL SUBDIVISION PREFERENCES
(Please Select One)

_____The Respondent's principal place of business is in the political subdivision of _____ and it is my legal opinion that the laws of that political subdivision **do not grant a preference** in the letting of any or all public contracts to business entities whose principal places of business are in that political subdivision.

_____ The Respondent's principal place of business is in the political subdivision of _____ and it is my legal opinion that the laws of that political subdivision **grant the following preference(s)** in the letting of any or all public contracts to business entities whose principal places of business are in that political subdivision: [Please describe applicable preference(s) and identify applicable authority granting the preference(s)]:

Signature of out-of-state Respondent's attorney _____

Printed name of out-of-state Respondent's attorney _____

Address of out-of-state Respondent's attorney _____

Telephone number of out-of-state Respondent's attorney (_____) _____ - _____

Email address of out-of-state Respondent's attorney _____

Attorney's state of bar admission _____



FLORIDA STATE UNIVERSITY
 FACILITIES DESIGN and CONSTRUCTION
 FACILITIES DESIGN OFFICE
 125 MENDENHALL BUILDING, A
 TALLAHASSEE, FLORIDA 32306-4153
 (904) 644-4871

100% Construction Documents

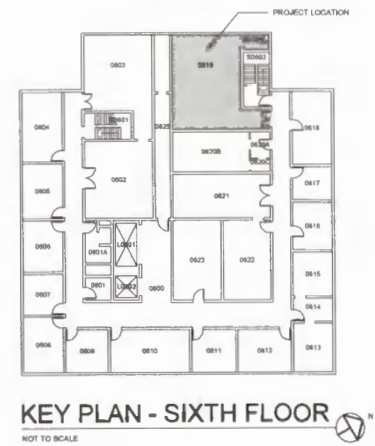
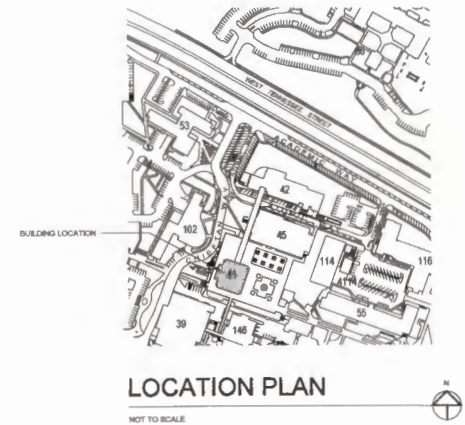
August 16, 2017

Lab 619 Modifications

Keen Building

FSU Project No.: 1700111

College of Arts & Sciences
 Department of Physics



G001

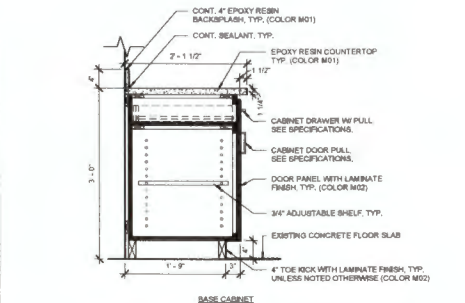
1700111-KEEN_Lab_619_Modification
 01_DesignDrawings/SheetG001.rvt

- 01 GENERAL REQUIREMENTS:**
- 1) COMPLY WITH THE REQUIREMENTS OF THE AGREEMENT BETWEEN OWNER AND CONSTRUCTION MANAGER IN EFFECT FOR CONSTRUCTION MANAGEMENT SERVICES PERFORMED AT FACILITIES DESIGN AND CONSTRUCTION STATE UNIVERSITY.
 - 2) SUMMARY OF WORK: DEMOLITION OF EXISTING LAB CABINETS, ELECTRICAL INFRASTRUCTURE AND PLUMBING. PROVIDE NEW BASE AND UPPER LAB CABINETS, REFURISH EXISTING LAB TABLES, PAINT INTERIORS, PROVIDE NEW CABLE TRAY SYSTEM, ELECTRICAL AND PLUMBING MODIFICATIONS, ADD ALTERNATES TO INCLUDE ADDITIONAL CABINETRY, PAINTING, GLASSBOARD, NEW LIGHTING AND SURFACE RECEIVING SYSTEM.
 - 3) COMPLY WITH REQUIREMENTS OF APPLICABLE PRODUCT OR TRADE STANDARDS, EXCEPT WHEN MORE RIGID REQUIREMENTS ARE SPECIFIED OR ARE REQUIRED BY APPLICABLE CODES.
 - 4) SUBSTITUTIONS: ALL PRODUCTS SPECIFIED MAY BE SUBSTITUTED WITH AN APPROVED EQUAL UNLESS SPECIFICALLY NOTED OTHERWISE. APPROVAL MUST BE IN WRITING PRIOR TO BID SUBMITTAL, UPON REVIEW OF SUBMITTAL CONTAINING COMPLETE DOCUMENTATION.
 - 5) COMPLY WITH THE REQUIREMENTS OF THE FSU DESIGN GUIDELINES AND SPECIFICATIONS. REFER TO [HTTP://WWW.FACILITIESDESIGN.COM](http://www.facilitiesdesign.com) FOR THE DESIGN GUIDELINES AND SPECIFICATIONS.
 - 6) THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. IF CONFLICTS OR DISCREPANCIES BETWEEN BUILDING SYSTEMS ARE OBSERVABLE HE SHALL NOTIFY THE FACILITIES DESIGN & CONSTRUCTION PROJECT MANAGER IN WRITING FOR RESOLUTION PRIOR TO COMMENCING CONSTRUCTION OR INSTALLATION.
 - 7) THE CONTRACTOR SHALL LIMIT THE IMPACT OF HIS WORK ON ALL SYSTEMS, EQUIPMENT AND SECURITY OF ALL AREAS WITHIN THE SCOPE OF THE WORK. COORDINATE PROTECTION AND SECURITY OF AREAS WITH THE DEPARTMENT. THE FOLLOWING SPECIFICATIONS ARE GENERAL IN NATURE AND APPLY ONLY WHERE APPLICABLE, AS SHOWN ON THE DRAWINGS.

02 EXISTING CONDITIONS:

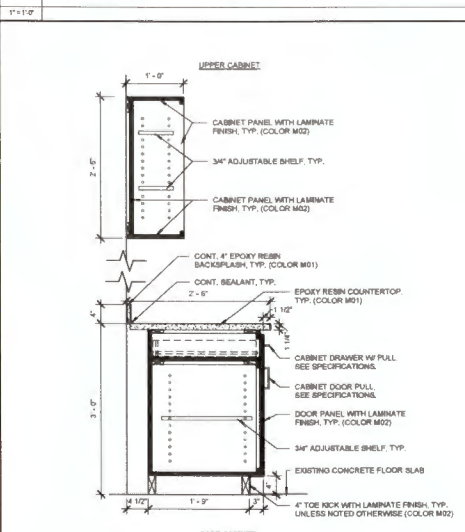
PROTECTION OF EXISTING WORK: PROVIDE NEW VACUUM DUST SEPARATION WALLS PROTECTING EXISTING AREAS AS NEEDED. COORDINATE LOCATION AND TYPE OF PROTECTION WITH DEPARTMENT. COORDINATE ACCESS TO THE WORK AREA AND TRAIL OF WORK WITH THE DEPARTMENT. MAINTAIN FUNCTIONALITY OF EXISTING BUILDING AND INFRASTRUCTURE SYSTEMS TO REMAIN UNLESS OTHERWISE NOTED. IF NEW WORK DEMOLITION OR CONSTRUCTION INTERFERES WITH EXISTING SYSTEM TO REMAIN - PROTECT OR SALVAGE SYSTEM FOR SUBSEQUENT REINSTALLATION TO PROPER FUNCTIONALITY.

CUTTING AND PATCHING: DO NOT CUT AND PATCH STRUCTURAL ELEMENTS IN A MANNER THAT COULD CHANGE THEIR LOAD-CARRYING CAPACITY OR LOAD-DEFLECTION RATIO. DO NOT CUT AND PATCH MECHANICAL, ELECTRICAL, PLUMBING, OR LIFE SAFETY SYSTEMS (RATED WALLS ETC.) IN A MANNER THAT RESULTS IN REDUCING THEIR CAPACITY TO PERFORM AS INTENDED OR THAT RESULTS IN INCREASED MAINTENANCE OR DECREASED OPERATIONAL LIFE OR SAFETY. WHERE EXISTING UTILITY SERVICES, MECHANICAL, OR ELECTRICAL SYSTEMS ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, REMOVE SERVICES IN SUCH A MANNER AS TO MINIMIZE INTERFERENCE TO OCCUPIED AREAS. ALL INTERRUPTIONS ARE TO BE SCHEDULED IN ADVANCE WITH THE OWNER. DO NOT CUT AND PATCH IN A MANNER THAT RESULTS IN VISUAL EVIDENCE OF CUTTING AND PATCHING. REMOVE EACH SERVICE SYSTEM BEFORE CUTTING TO MINIMIZE INTERFERENCE TO OCCUPIED AREAS. DO NOT VOID EXISTING WARRANTIES. USE MATERIALS IDENTICAL TO IN-PLACE MATERIALS. FOR EXPOSED SURFACES, USE MATERIALS THAT VISUALLY MATCH IN-PLACE ADJACENT SURFACES TO PREVENT DISCREPANCIES. IF UNAVAILABLE OR CANNOT BE USED, USE MATERIALS THAT VISUALLY MATCH WHEN INSTALLED. WILL MATCH THE VISUAL AND FUNCTIONAL PERFORMANCE OF IN-PLACE MATERIALS. BEFORE PATCHING, VERIFY COMPATIBILITY WITH AND SUITABILITY OF SUBSTRATE INCLUDING COMPATIBILITY WITH IN-PLACE FINISHES OR PRIMERS. PROVIDE TEMPORARY SUPPORT OF WORK TO BE CUT. PROTECT IN-PLACE CONSTRUCTION DURING CUTTING AND PATCHING TO PREVENT DAMAGE. REMOVE AND REPLACE ANY ITEMS DAMAGED DURING CONSTRUCTION. TAKE ALL PRECAUTIONS NECESSARY TO AVOID ACCIDENTALLY CUTTING EXISTING PIPE, CONDUIT, OR DUCTWORK SERVING THE BUILDING. FIELD VERIFY LOCATION OF ALL EXISTING BUILDING AND INFRASTRUCTURE SYSTEMS AND REMOVE OR RELOCATE IF NECESSARY TO NOT INTERFERE WITH PROPOSED BUILDING SYSTEMS. REMOVE IN-PLACE FLOOR AND WALL COVERINGS AND APPLY PRIMER AND INTERMEDIATE PAINT COATS OVER THE PATCH AND APPLY FINAL PAINT COAT OVER ENTIRE UNBOUNDED SURFACE CONTAINING THE PATCH. PROVIDE ADJACENT COAT TO PATCH SURFACES TO MATCH EXISTING SURFACES. PATCH, REPAIR, OR REPLACE IN-PLACE CEILING AS NECESSARY TO PROVIDE AN EVEN-PLANE SURFACE OF UNIFORM APPEARANCE. CLEAN AREAS AND SPACES WHERE CUTTING AND PATCHING ARE PERFORMED, COMPLETELY REMOVING PAINT, MORTAR, OIL, PUTTY, DUST, ETC.



- NOTES**
1. ALL VISIBLE SURFACES TO HAVE LAMINATE FINISH EXCEPT FOR BASE CABINET INTERIOR.
 2. BASE CABINET INTERIOR & SHELVING TO HAVE WHITE MELAMINE FINISH UNLESS OTHERWISE NOTED.

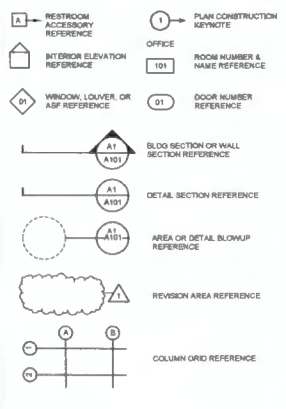
G7 CABINETY SECTION 2



- NOTES**
1. ALL VISIBLE SURFACES TO HAVE LAMINATE FINISH EXCEPT FOR BASE CABINET INTERIOR.
 2. BASE CABINET INTERIOR & SHELVING TO HAVE WHITE MELAMINE FINISH UNLESS OTHERWISE NOTED.

A1 SPECIFICATIONS

A7 CABINETY SECTION 1



J13 GRAPHIC SYMBOLS

	EARTH		METAL
	COMPACT FILL/ ASPHALT		ROAD INSULATION/ RIGID PLASTIC
	SIDING/ BOARD		PLYWOOD
	CONCRETE		FINISH WOOD
	MASONRY OR BRICK		ROUGH WOOD
	BRICK		BLOCKWORK
	GRAVEL		BATT INSULATION

E13 MATERIAL LEGEND

Sheet No.	Sheet Name
0001	TITLE SHEET
0002	GENERAL INFORMATION & SPECIFICATIONS
A101	FLOOR PLANS
A102	REFLECTED CEILING PLANS
A301	ELEVATIONS
P100	PLUMBING DEMOLITION AND NEW WORK PLUMBING PLANS
P200	PLUMBING SPECIFICATIONS
E100	ELECTRICAL LEGEND AND NOTES
E101	ELECTRICAL DETAILS
E200	ELECTRICAL DEMOLITION AND NEW WORK PLANS
E300	ELECTRICAL PANEL SCHEDULES AND ONE-LINE DIAGRAM
E400	ELECTRICAL SPECIFICATIONS
E401	ELECTRICAL SPECIFICATIONS
E402	ELECTRICAL SPECIFICATIONS
E403	ELECTRICAL SPECIFICATIONS

A13 DRAWING LIST

1. THESE PLANS ARE THE PROPERTY OF FLORIDA STATE UNIVERSITY. USE OR COPY IS PERMITTED BY CONTRACT ONLY. ANY UNAUTHORIZED USE OF OR REVISIONS TO THESE PLANS, REGARDLESS OF SCOPE, WITHOUT WRITTEN PERMISSION OF THE ARCHITECTURAL DESIGN OFFICE, FACILITIES DESIGN AND CONSTRUCTION, FLORIDA STATE UNIVERSITY, IS PROHIBITED.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, HE IS RESPONSIBLE FOR REQUESTING CLARIFICATION IN WRITING TO THE ARCHITECT. IF THE CONTRACTOR PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, HE SHALL BE HELD RESPONSIBLE FOR ALL ASSOCIATED DEFICIENCIES.
3. PRIOR TO COMMENCEMENT OF THE WORK, THE CONTRACTOR SHALL VISIT THE SITE TO EXAMINE THE PREMISES AND BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IF THE CONTRACTOR ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
4. THE CONTRACTOR SHALL COORDINATE THE WORK WITH ALL SUBCONTRACTORS AND SEQUENCE DEMOLITION AND BECOME FAMILIAR WITH EXISTING CONDITIONS TO THE NORMAL OPERATIONS OF THE BUILDING. THIS COORDINATION SHALL ALSO BE REVIEWED AND APPROVED BY THE BUILDING FACILITIES MANAGER AND THE OWNER'S USER REPRESENTATIVE.
5. THE CONTRACTOR SHALL MAINTAIN ALL EGRESS PATHS CLEAR, WHERE AN EGRESS PATH MUST BE TEMPORARILY BLOCKED, THE CONTRACTOR SHALL PROVIDE BARRIERS AND DIRECTIONAL SIGNS AS NEEDED TO MAINTAIN EXITING AND SAFETY.
6. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL REASONABLE SAFEGUARDS FOR SAFETY AND HEALTH INCLUDING PORTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS, AS WELL AS PROMULGATING SAFETY REGULATIONS.
7. THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY OWNER FOR ON SITE STORAGE OF CONSTRUCTION MATERIALS.
8. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK PREMISE AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF ALL DEBRIS DAILY. THE WORK PREMISE SHALL BE CLEAN AT COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT IS MADE.
9. ALL WORK SHALL COMPLY WITH APPLICABLE OSHA AND E.P.A. REGULATIONS AND GUIDELINES.
10. ARCHITECTURAL LAYOUTS TAKE PRECEDENCE OVER DIAGRAMMATIC DRAWINGS BY THE ENGINEER AND CONFLICTS BETWEEN ENGINEER'S AND ARCHITECT'S DRAWINGS SHOULD BE RESOLVED BY WRITING PRIOR TO CONSTRUCTION.
11. ALL NEW WORK TO BE IN ACCORDANCE WITH THE BUILDING CODES LISTED BELOW, BEING THE LATEST EDITION AS APPLICABLE TO THE BUILDING JURISDICTION'S JURISDICTION, WHERE CONFLICTS OCCUR BETWEEN CODES AND BETWEEN CONSTRUCTION DOCUMENTS AND CODES, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.

- FLORIDA BUILDING CODE BUILDING 2014 5TH EDITION
 FLORIDA BUILDING CODE MECHANICAL 2014 5TH EDITION
 FLORIDA BUILDING CODE FUEL GAS 2014 5TH EDITION
 FLORIDA BUILDING CODE PLUMBING 2014 5TH EDITION
 FLORIDA BUILDING CODE ACCESSIBILITY 2014 5TH EDITION
 FLORIDA FIRE PREVENTION CODE 2014 5TH EDITION
 NATIONAL ELECTRICAL CODE 2011 EDITION

- 12. CODE COMPLIANCE NOTES**
- OCCUPANCY TYPE BUSINESS
 EGRESS ROUTE REQUIRED 800
 AREA MAPPED 800
 ALL INTERIOR FINISHES CLASS 2 MINIMUM FLAME SMOKE RATING CLASS A OR B AT EXITS & EXIT ACCESS PER TABLE 903.9
- CONSTRUCTION TYPE TYPE II (ASSUMED) PER FBC
 COMPLIANCE METHOD LEVEL 8, FL EXISTING BUILDING CODE, 5TH ED., 2014, SECT. 801
- FIRE ALARM SYSTEM STATUS EXISTENT
 FIRE SPRINKLER SYSTEM STATUS NON-EXISTENT

F16 GENERAL INFORMATION

No.	Submittals	Drawn	Checked	Date
1	DESIGN DEVELOPMENT	APD	AHW	05/19/17
2	50% CONSTRUCTION DOCUMENTS	APD	AHW	05/09/17
3	100% CONSTRUCTION DOCUMENTS	APD	AHW	06/01/17

FLORIDA STATE UNIVERSITY
 FACILITIES DESIGN AND CONSTRUCTION
 FACILITIES DESIGN OFFICE
 123 MENDENHALL BUILDING, A
 TALLAHASSEE, FLORIDA, 32304-1113
 (904) 444-5801

Project Name
 Lab 619 Modifications
 College of Arts & Sciences - Dept of Physics

GENERAL INFORMATION & SPECIFICATIONS

No.	Revision Description	Drawn by/Checked by	Date

Project Folder Name
 170011-4-EN_Lab_619_Modifications
 01_Design/Drawings/Sheet List

FSU Project No.
 1700111
 Building Name & No.
 Kean Building, Bldg. No. 41

G002

T:\2017\14EN_Lab_619_Modifications\01_Design\Drawings\Sheet List.dwg

FINISH SCHEDULE								
Room Number	Room Name	Floor Substrate	Floor Finish	Base Finish	Wall Material	Wall Finish	Ceiling	Comments
0919	LAB	EXIST. CONCRETE	PAINTED CONCRETE	PAINTED CONCRETE	CMU CONCRETE	PAINT	PAINTED CONCRETE/S.A.C.	
0918A	STORAGE	EXIST. CONCRETE	PAINTED CONCRETE	PAINTED CONCRETE	CMU CONCRETE	PAINT	PAINTED CONCRETE	

CMU = CONCRETE MASONRY UNIT EXIST. = EXISTING N/A = NOT APPLICABLE S.A.C. = SUSPENDED ACOUSTICAL CEILING

CODE	DESCRIPTION	MANUFACTURER/PRODUCT INFO	COLOR
C01	SUSPENDED ACOUSTICAL CEILING	ARMSTRONG WORLD INDUSTRIES 151 ULTRA TRIOLAN - 24" X 24"	WHITE
C02	SUSPENDED CEILING GRID	ARMSTRONG WORLD INDUSTRIES 151F PEGULOCAL	WHITE
C03	SHADOW MOLDING	ARMSTRONG WORLD INDUSTRIES 345-T-351	WHITE
M01	EPOXY RESIN COUNTERTOP	DURCON INCORPORATED CLASSIC TOP, 3/4" THICK, 1/4" RADIUS EDGE	TAN
M02	CABINETS LAMINATE	NEVAMAR - TEXTURED FINISH	93022 DEEP BLUE
M03	CABINETS SUPPORT LEG	HAUFLE - 3-3/4" SQUARE, 34-3/4" HEIGHT	BRUSHED STAINLESS STEEL
P01	CMU WALL PAINT	SHERWIN-WILLIAMS	SW 7070 EGRET WHITE
P02	CONCRETE WALL PAINT	SHERWIN-WILLIAMS	SW 7170 EGRET WHITE
P03	CONCRETE FLOOR PAINT	SHERWIN-WILLIAMS	SW 8198 ELPHANT EAR
P04	MEP INFRASTRUCTURE	SHERWIN-WILLIAMS	SW 7005 PURE WHITE
P05	WOOD PAINT	SHERWIN-WILLIAMS	SW 7070 EGRET WHITE
P06	HOLLOW METAL FRAME PAINT	SHERWIN-WILLIAMS	SW 7070 EGRET WHITE
P07	FUME HOOD PAINT	SHERWIN-WILLIAMS	SW 7024 FUNCTIONAL GRAY
P08	WOOD MILLWORK STAIN	SHERWIN-WILLIAMS	STAIN TO MATCH EXISTING. SUBMIT SAMPLE FOR APPROVAL

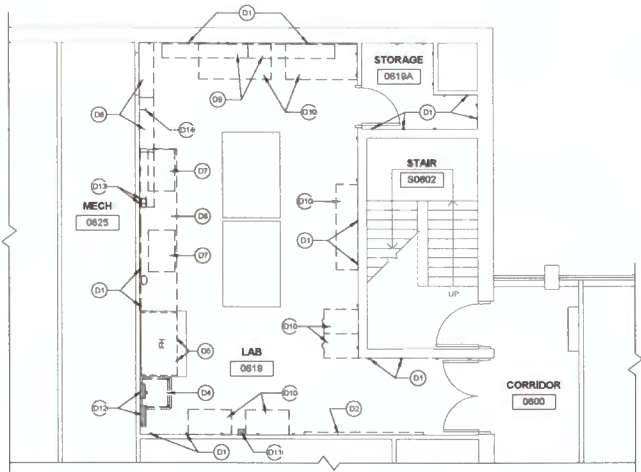
K1 FINISH AND COLOR SCHEDULE

NO SCALE

- PROVIDE NEW UPPER CABINETS ALONG WEST WALL ELEVATION AS INDICATED, SEE A70002, J1A301, SPECIFICATIONS, FINISH AND COLOR SCHEDULE M02 FOR ADDITIONAL REQUIREMENTS.
- PAINT EXISTING CONCRETE PAN & JOIST CEILING SYSTEM IN ITS ENTIRETY INCLUDING ALL EXPOSED MECHANICAL AND ELECTRICAL INFRASTRUCTURE COMPONENTS. SEE SPECIFICATIONS, FINISH AND COLOR SCHEDULE PM FOR ADDITIONAL REQUIREMENTS.
- PROVIDE NEW 8" X 8" GLASS MARKERBOARD ON EAST WALL ELEVATION AS INDICATED. SEE SPECIFICATIONS.
- PROVIDE NEW LINEAR LED PENDANT LIGHT FIXTURES AS INDICATED TO REPLACE EXISTING FLUORESCENT LIGHTING. SEE 08A102 AND ELECTRICAL DESIGN FOR ADDITIONAL REQUIREMENTS.
- PROVIDE NEW STAINLESS STEEL SURFACE MOUNTED WAREHOLD RACEWAY SYSTEM AT ROOM PERIPHERY FOR CONCEALED ROUTING OF POWER AND COMMUNICATIONS IN LIEU OF SURFACE MOUNTED CONDUIT INFRASTRUCTURE. SEE SHEET A201 ELEVATIONS AND ELECTRICAL DESIGN FOR ADDITIONAL REQUIREMENTS.

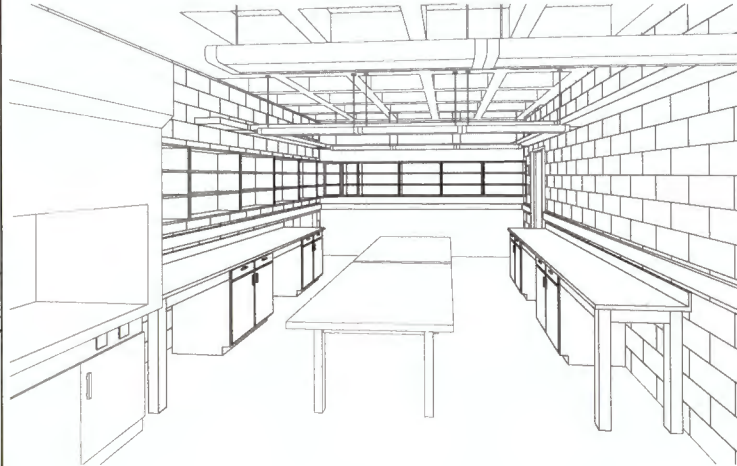
G1 ADD ALTERNATES

NO SCALE



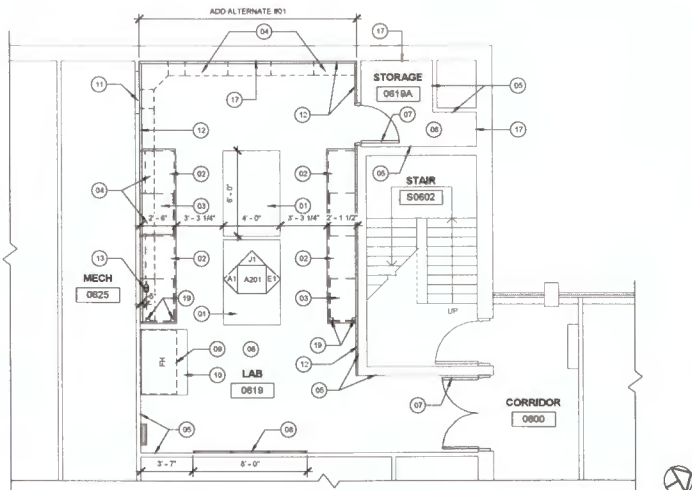
A1 DEMOLITION PLAN

1/4" = 1'-0"



G8 3D PERSPECTIVE

NO SCALE



A8 FLOOR PLAN

1/4" = 1'-0"

DEMOLITION & FLOOR PLAN KEYNOTES	
Keynote Number	Description
D1	REMOVE EXISTING WOOD BATTEN STRIPS FROM PERIMETER WALLS, FILL AND PATCH WOOD IN WALL SUBSTRATES TO RECEIVE NEW FINISHES. TYP.
D2	REMOVE EXISTING GYPSUM BOARD AS INDICATED.
D3	REMOVE EXISTING SERVICE BASK AS INDICATED. SEE PLUMBING.
D4	REMOVE EXISTING FUME HOOD BASE CABINETS AS INDICATED. SUPPORT EXISTING FUME HOOD TO REMAIN AS REQUIRED TO RECEIVE NEW BASE CABINET. SALVAGE AND RE-FINISH EXISTING FUME HOOD UTILITIES AS INDICATED.
D5	REMOVE EXISTING BASE LAB CABINETS AS INDICATED.
D6	REMOVE EXISTING EPOXY RESIN COUNTERTOP AND BACKPLASH AS INDICATED.
D7	REMOVE EXISTING UPPER STORAGE CABINETS AS INDICATED.
D8	REMOVE EXISTING ADJUSTABLE WOOD SHELVING AS INDICATED.
D9	REMOVE EXISTING FUME HOOD AS INDICATED.
D10	EXISTING FURNITURE AND EQUIPMENT TO BE REMOVED BY SEIT.
D11	EXISTING HVAC STARTER CONTROL SWITCH TO BE RELOCATED BY OTHERS.
D12	EXISTING ELECTRICAL DISTRIBUTION PANELS. SEE ELECTRICAL.
D13	REMOVE EXISTING REFRIG GAS SERVICE PLUMBING. PATCH REPAIR CMU WALL SUBSTRATE TO RECEIVE NEW FINISHES. SEE PLUMBING.
D14	REMOVE EXISTING BURROUGHS ACOUSTIC CEILING SYSTEM AS INDICATED.
D15	EXISTING FAN COIL UNIT TO BE REMOVED BY OTHERS. SEE ALSO KEYNOTE 20.
D16	REMOVE EXISTING SUSPENDED ACOUSTIC CEILING SYSTEM AS INDICATED.
D17	REMOVE EXISTING LAB TABLE SURFACE WITH NEW EPOXY RESIN COUNTERTOP M01 TYP. SCRUFF SAND AND REFRESH EXISTING WOOD LEGS. TYP. REPLACE EXISTING DRAINER PULLS. TYP. SEE SPECIFICATIONS.
D18	REMOVE EXISTING NEW WOOD BASE LAB CABINETS WITH ADJUSTABLE SHELVING AND CONTROLS FROM ALONG OUTSIDE PERIMETRY. SEE SECTIONS A70002 & A70003. SHEET A201 ELEVATIONS. SPECIFICATIONS, FINISH AND COLOR SCHEDULE M03 FOR ADDITIONAL REQUIREMENTS.
D19	REMOVE EXISTING NEW WOOD UPPER STORAGE CABINETS WITH ADJUSTABLE SHELVING AT SOUTH ELEVATION. SEE SHEET A201 ELEVATIONS. SPECIFICATIONS, FINISH AND COLOR SCHEDULE M02 FOR ADDITIONAL REQUIREMENTS. SEE ALSO ALTERNATE #01 FOR WEST ELEVATION CABINETS.
D20	REMOVE EXISTING NEW WOOD UPPER STORAGE CABINETS WITH ADJUSTABLE SHELVING AT SOUTH ELEVATION. SEE SHEET A201 ELEVATIONS. SPECIFICATIONS, FINISH AND COLOR SCHEDULE M02 FOR ADDITIONAL REQUIREMENTS. SEE ALSO ALTERNATE #01 FOR WEST ELEVATION CABINETS.
D21	REMOVE EXISTING NEW WOOD UPPER STORAGE CABINETS WITH ADJUSTABLE SHELVING AT SOUTH ELEVATION. SEE SHEET A201 ELEVATIONS. SPECIFICATIONS, FINISH AND COLOR SCHEDULE M02 FOR ADDITIONAL REQUIREMENTS. SEE ALSO ALTERNATE #01 FOR WEST ELEVATION CABINETS.
D22	REMOVE EXISTING NEW WOOD UPPER STORAGE CABINETS WITH ADJUSTABLE SHELVING AT SOUTH ELEVATION. SEE SHEET A201 ELEVATIONS. SPECIFICATIONS, FINISH AND COLOR SCHEDULE M02 FOR ADDITIONAL REQUIREMENTS. SEE ALSO ALTERNATE #01 FOR WEST ELEVATION CABINETS.

F16 KEYNOTE LEGEND

No.	Submissions	Drawn	Checked	Date
1	DESIGN DEVELOPMENT	APG	AHM	06/12/17
2	50% CONSTRUCTION DOCUMENTS	APG	AHM	05/26/17
3	100% CONSTRUCTION DOCUMENTS	APG	AHM	08/16/17

FLORIDA STATE UNIVERSITY
 FACILITIES DESIGN AND CONSTRUCTION
 FACILITIES DESIGN OFFICE
 125 MENDENHALL BUILDING, A
 TALLAHASSEE, FLORIDA 32306-4115
 (850) 644-6861

Project Name:
Lab 619 Modifications
 College of Arts & Sciences - Dept of Physics

FLOOR PLANS

No.	Revision Description	Drawn by/Checked by	Date

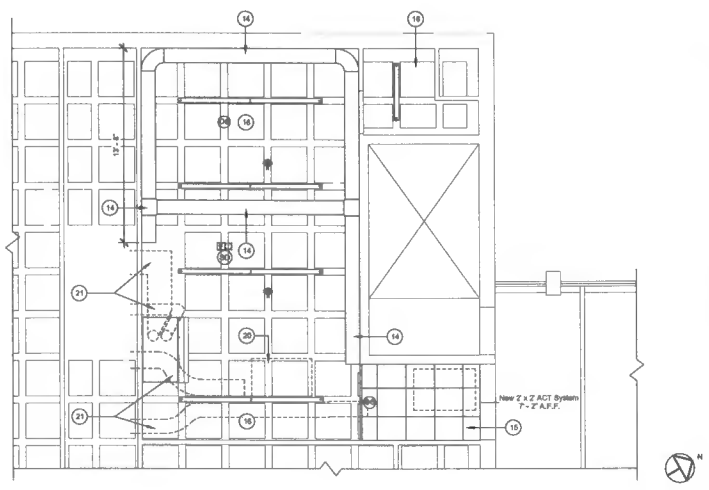
Project Folder Name:
 1700114-ENR_Lab_619_Modifications_01_ChangeOrderRequest.rvt

Drawing No:
A101

F5J Project No:
 1700111

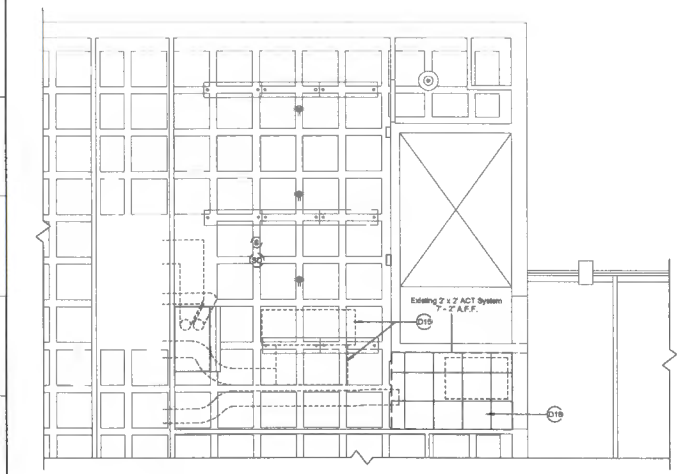
Building Name & No:
 Keen Building, Bldg. No. 41

- EXISTING 3 LAMP FLUORESCENT PENDANT LIGHT FIXTURE TO REMAIN - BASE BND
- EXISTING CIRCULAR FLUORESCENT PENDANT LIGHT FIXTURE TO REMAIN - BASE BND
- EXISTING WALL WASH LIGHT FIXTURE TO BE DEMOLISHED
- EXISTING FIRE ALARM SPEAKER TO BE DEMOLISHED
- EXISTING SMOKE DETECTION DEVICE TO BE RELOCATED
- EXISTING CEILING SUSPENDED QUADRIPLEX RECEPTACLE TO BE DEMOLISHED
- NEW RETRACTABLE CEILING SUSPENDED QUADRIPLEX RECEPTACLE
-
-
- RELOCATED SMOKE DETECTION DEVICE
- NEW FIRE ALARM STROBE DEVICE
- ADD ALTERNATE #04 - NEW OCCUPANCY SENSOR



G1 REFLECTED CEILING PLAN LEGEND

1/8" = 1'-0" SEE MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS

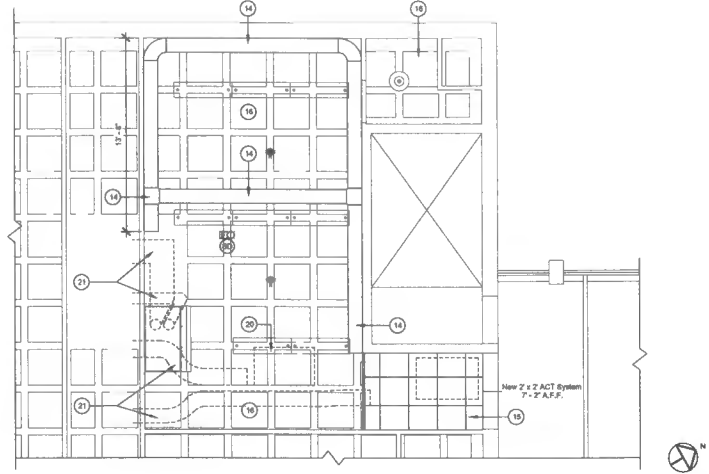


A1 RCP DEMOLITION

1/8" = 1'-0"

G8 REFLECTED CEILING PLAN - ALTERNATE

1/8" = 1'-0"



A8 REFLECTED CEILING PLAN

1/8" = 1'-0"

DEMOLITION & FLOOR PLAN KEYNOTES

Keynote Number	Description
D1	REMOVE EXISTING WOOD BATTEN & TRIPS FROM PERIMETER WALLS, PILL AND PATCH VOIDED IN WALL SUBSTRATES TO RECEIVE NEW FINISHES. TYP.
D2	REMOVE EXISTING CHALK BOARD AS INDICATED.
D3	-
D4	REMOVE EXISTING SERVICE SINK AS INDICATED. SEE PLUMBING.
D5	REMOVE EXISTING FUME HOOD BASE CABINET AS INDICATED. SUPPORT EXISTING FUME HOOD TO REMAIN AS REQUIRED TO RECEIVE NEW BASE CABINET. SALVAGE AND RETAIN EXISTING FUME HOOD UTILITIES FOR REUSE.
D6	REMOVE EXISTING EPOXY RESIN COUNTERTOP AND BACKSPLASH AS INDICATED.
D7	REMOVE EXISTING BASE LAB CABINETS AS INDICATED.
D8	REMOVE EXISTING UPPER STORAGE CABINETRY AS INDICATED.
D9	REMOVE EXISTING ADJUSTABLE WOOD SHELVING AS INDICATED.
D10	EXISTING FURNITURE AND EQUIPMENT TO BE REMOVED BY OBT.
D11	EXISTING HVAC STARTER CONTROL SWITCH TO BE RELOCATED BY OTHERS.
D12	EXISTING ELECTRICAL DISTRIBUTION PANELS. SEE ELECTRICAL.
D13	SALVAGE AND RELOCATE EXISTING WELL WATER SUPPLY AND RETURN PLUMBING. PATCH/REPAIR CMU WALL SUBSTRATE TO RECEIVE NEW FINISHES. SEE PLUMBING.
D14	REMOVE EXISTING HELIUM GAS SERVICE PLUMBING PATCH/REPAIR CMU WALL SUBSTRATE TO RECEIVE NEW FINISHES. SEE PLUMBING.
D15	EXISTING FAN COIL UNIT TO BE REMOVED BY OTHERS. SEE ALSO KEYNOTE 20.
D16	REMOVE EXISTING SUSPENDED ACOUSTIC CEILING SYSTEM AS INDICATED.
01	REPLACE EXISTING LAB TABLE SURFACE WITH NEW EPOXY RESIN COUNTERTOP M01 TYP. SCRUFF SAND AND REFINISH EXISTING WOOD LEGS. TYP. REPLACE EXISTING DRAWER PULLS. TYP. SEE SPECIFICATIONS.
02	PROVIDE NEW WOOD BASE LAB CABINETRY WITH ADJUSTABLE SHELVING AND CONTINUOUS 6\"/>

F16 KEYNOTE LEGEND

1/8" SCALE

NO.	Revision	Description	Drawn by/Checked by	Date
1				
2				
3				

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Project Name
Lab 619 Modifications
 College of Arts & Sciences - Dept of Physics

REFLECTED CEILING PLANS

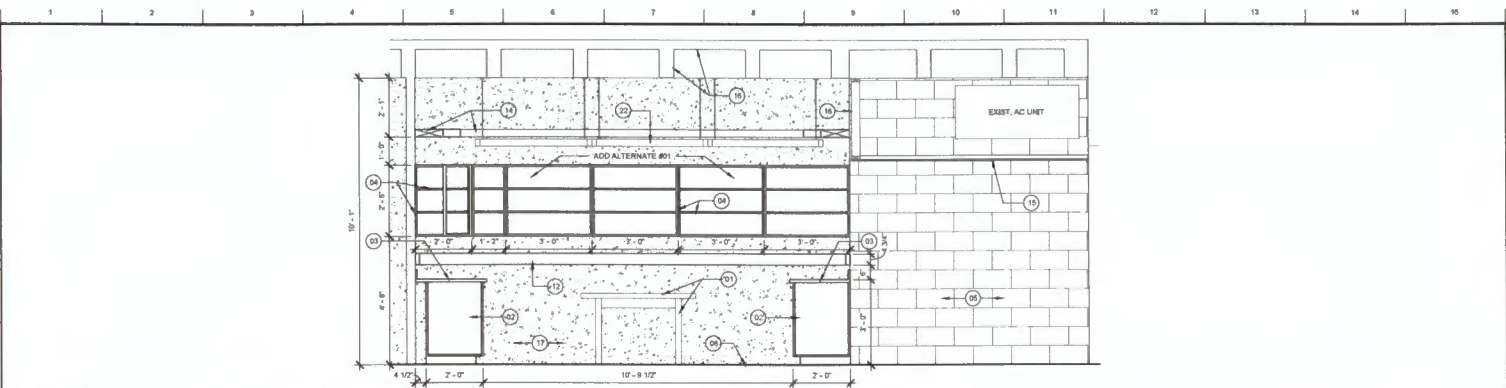
NO.	Revision	Description	Drawn by/Checked by	Date

Sheet
 Project Folder Name
 170011-LABN_LAB_619_modifications
 01_DesignChangeModel.rvt

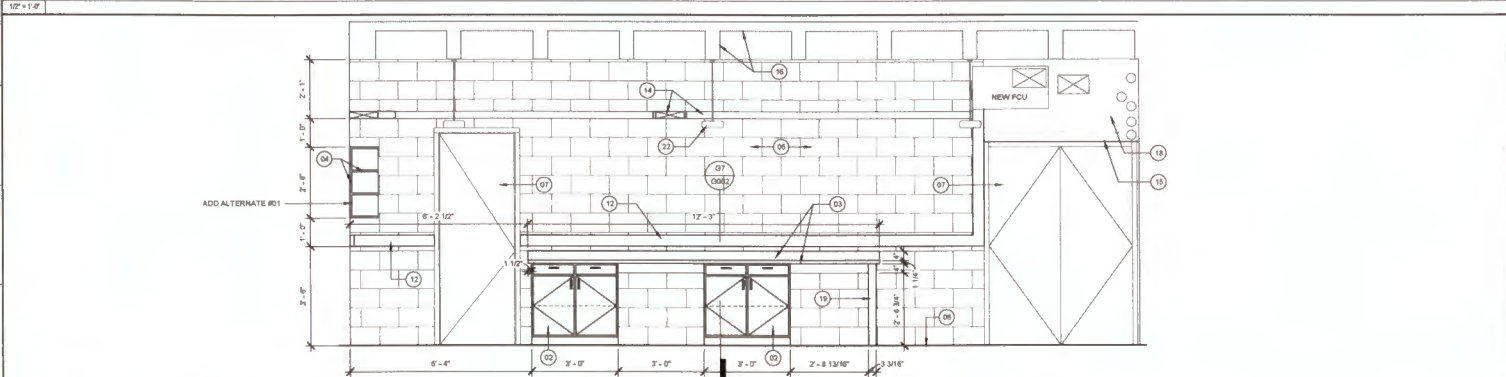
Drawing No
A102

FBU Project No
 1700111
 Building Name & No.
 Keen Building, Bldg. No. 41

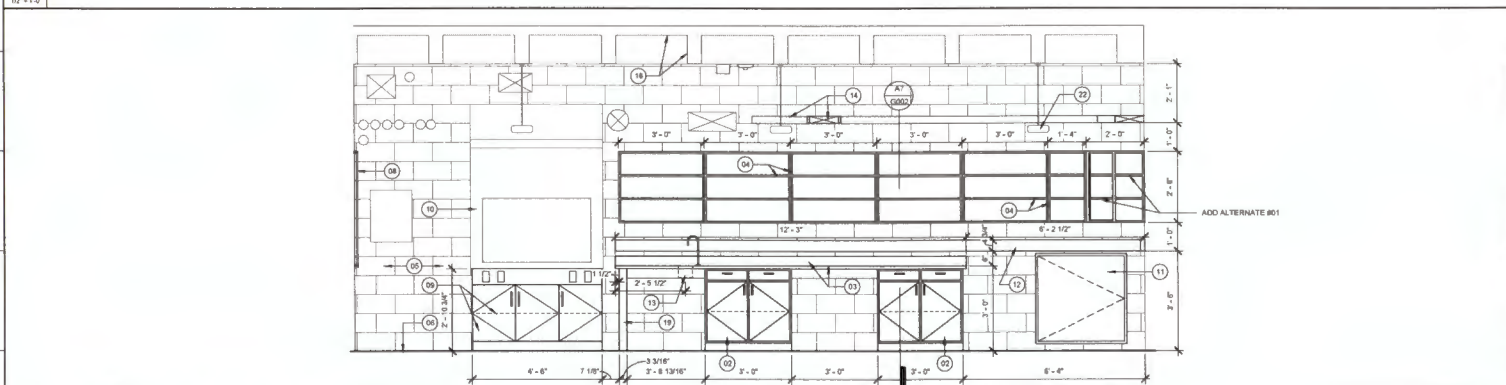
170011-LABN_LAB_619_modifications_01_DesignChangeModel.rvt



J1 WEST ELEVATION



E1 NORTH ELEVATION



A1 SOUTH ELEVATION

DEMOLITION & FLOOR PLAN KEYNOTES

Keynote Number	Description
D1	REMOVE EXISTING WOOD BATTEN STRIPS FROM PERIMETER WALLS. FILL AND PATCH VOID IN WALL SUBSTRATE TO RECEIVE NEW FINISHES. TYP.
D2	REMOVE EXISTING CHALK BOARD AS INDICATED.
D3	
D4	REMOVE EXISTING SERVICE SINK AS INDICATED. SEE PLUMBING.
D5	REMOVE EXISTING FUME HOOD BASE CABINET AS INDICATED. SUPPORT EXISTING FUME HOOD TO REMAIN AS REQUIRED TO RECEIVE NEW BASE CABINET. SALVAGE AND RETAIN EXISTING FUME HOOD FILTERS FOR REUSE.
D6	REMOVE EXISTING EPOXY RESIN COUNTERTOP AND BACKSPLASH AS INDICATED.
D7	REMOVE EXISTING BASE LAB CABINETRY AS INDICATED.
D8	REMOVE EXISTING UPPER STORAGE CABINETRY AS INDICATED.
D9	REMOVE EXISTING ADJUSTABLE WOOD SHELVING AS INDICATED.
D10	EXISTING FURNITURE AND EQUIPMENT TO BE REMOVED BY OTHER.
D11	EXISTING HVAC STARTER CONTROL SWITCH TO BE RELOCATED BY OTHERS.
D12	EXISTING ELECTRICAL DISTRIBUTION PANELS. SEE ELECTRICAL.
D13	SALVAGE AND RELOCATE EXISTING WELL WATER SUPPLY AND RETURN PLUMBING. PATCH/REPAIR CMU WALL SUBSTRATE TO RECEIVE NEW FINISHES. SEE PLUMBING.
D14	REMOVE EXISTING HELM GAS SERVICE PLUMBING. PATCH/REPAIR CMU WALL SUBSTRATE TO RECEIVE NEW FINISHES. SEE PLUMBING.
D15	EXISTING FAN COIL UNIT TO BE REMOVED BY OTHERS. SEE ALSO KEYNOTE 20.
D16	REMOVE EXISTING SUSPENDED ACOUSTIC CEILING SYSTEMS AS INDICATED.
01	REPLACE EXISTING LAB TABLE SURFACE WITH NEW EPOXY RESIN COUNTERTOP M01 TYP. SCUFF SAND AND REFINISH EXISTING WOOD LEGS. TYP. REPLACE EXISTING DRAWER PULLS. TYP. SEE SPECIFICATIONS.
02	PROVIDE NEW WOOD BASE LAB CABINETRY WITH ADJUSTABLE SHELVING AND CONTROLS & APRON ALONG OUTSIDE PERIMETRY. SEE SECTIONS AT FLOOR & GROUND. SHEET ADD1 ELEVATIONS. SPECIFICATIONS, FINISH AND COLOR SCHEDULE M02 FOR ADDITIONAL REQUIREMENTS.
03	PROVIDE NEW EPOXY RESIN LAB COUNTERTOP WITH 4" BACKSPLASH. PROVIDE MIN. 1-1/2" OVERHANG AT ALL EDGES. SEE FINISH AND COLOR SCHEDULE M01.
04	PROVIDE NEW WOOD UPPER STORAGE CABINETRY WITH ADJUSTABLE SHELVING AT SOUTH ELEVATION. SEE SHEET ADD1 ELEVATIONS. SPECIFICATIONS, FINISH AND COLOR SCHEDULE M02 FOR ADDITIONAL REQUIREMENTS. SEE ADD ALTERNATE #01 FOR WEST ELEVATION CABINET.
05	PAINT INTERIOR CMU WALL SUBSTRATES AS INDICATED. SEE FINISH AND COLOR SCHEDULE P01.
06	SCUFF SAND AND REFINISH EXISTING CONCRETE FLOOR WITH NEW FLOOR PAINT. SEE FINISH AND COLOR SCHEDULE P03.
07	SCUFF SAND AND REFINISH EXISTING FLUSH WOOD DOOR AND TRANSOM PANEL WHERE APPLICABLE WITH EXISTING FINISH. SEE FINISH AND COLOR SCHEDULE P04.
08	ADD ALTERNATE #03 - PROVIDE NEW 4'-0" X 8'-0" GLASS MARKERBOARD AS INDICATED. SEE SPECIFICATIONS.
09	PROVIDE NEW WOOD FUME HOOD BASE CABINET AS INDICATED. CABINET TO BE 4'-0" (W) X 2'-0" (D) X 2'-10 3/4" (H) WITH ADJUSTABLE SHELVING. SEE GROUND FOR BREAK CONSTRUCTION. SPECIFICATIONS, FINISH AND COLOR SCHEDULE M02 FOR FINISH REQUIREMENT. COORDINATE FUME HOOD UTILITY LOCATIONS AS INDICATED. SEE ELECTRICAL FOR ADDITIONAL REQUIREMENTS.
10	PAINT EXISTING FUME HOOD AS INDICATED. ABRADE, CLEAN AND PREPARE EXISTING SUBSTRATE AS REQUIRED FOR NEW FINISH. SEE SPECIFICATIONS, FINISH AND COLOR SCHEDULE P01.
11	REPLACE EXISTING ACCESS PANEL WITH NEW 2'-0" X 2'-0" HINGED ACCESS DOOR PANEL AT EXISTING MECHANICAL CHASE OPENING. SEE SPECIFICATIONS.
12	ADD ALTERNATE #06 - PROVIDE NEW SURFACE MOUNTED RACEWAY SYSTEM AT LAB PERIMETRY AS INDICATED FOR CONCEALED POWER AND COMMUNICATIONS RECEPTACLE. SEE ELECTRICAL FOR ADDITIONAL REQUIREMENTS.
13	PROVIDE NEW COP SINK AND FAUCET INTEGRATED IN NEW LAB COUNTERTOP AS INDICATED. SEE PLUMBING FOR ADDITIONAL REQUIREMENTS.
14	PROVIDE NEW CABLE TRAY SYSTEM AT LAB PERIMETRY AS INDICATED. SEE ELECTRICAL FOR ADDITIONAL REQUIREMENTS.
15	PROVIDE NEW 2'-0" X 2'-0" SUSPENDED ACOUSTIC CEILING SYSTEM AS INDICATED. SEE SPECIFICATIONS, FINISH AND COLOR SCHEDULE C01, C02 & C03.
16	ADD ALTERNATE #02 - PAINT EXISTING CONCRETE PAN AND JOIST CEILING IN ITS ENTIRETY. SEE FINISH AND COLOR SCHEDULE P04.
17	PAINT INTERIOR CAST-IN PLACE CONCRETE WALL SUBSTRATES AS INDICATED. SEE FINISH AND COLOR SCHEDULE P02.
18	PAINT INTERIOR WOOD SUBSTRATES AS INDICATED. SEE FINISH AND COLOR SCHEDULE P05.
19	PROVIDE NEW CABINETRY SUPPORT LEGS AS INDICATED. SEE FINISH AND COLOR SCHEDULE M03.
20	NEW FAN COIL UNIT PROVIDED BY OTHERS. ASSOCIATED DUCTWORK, PIPING AND CONTROLS TO BE PROVIDED BY OTHERS AS REQUIRED. TYP.
21	ADD ALTERNATE #02 - PAINT ALL MECHANICAL AND ELECTRICAL CEILING INFRASTRUCTURE SYSTEM COMPONENTS INCLUDING DUCTWORK, PIPING AND EXPOSED RACEWAY, ETC. TO MATCH NEW CEILING FINISH. TYP.
22	EXISTING PENDANT LIGHT FIXTURES TO REMAIN. TYP. SEE ADD ALTERNATE #04 REFLECTED CEILING PLANS AND ELECTRICAL FOR ADDITIONAL REQUIREMENTS.

F16 KEYNOTE LEGEND

No.	Submittance	Drawn	Checked	DRB
1	DESIGN DEVELOPMENT	APG	AHV	06/19/17
2	90% CONSTRUCTION DOCUMENTS	APG	AHV	06/26/17
3	100% CONSTRUCTION DOCUMENTS	APG	AHV	06/16/17

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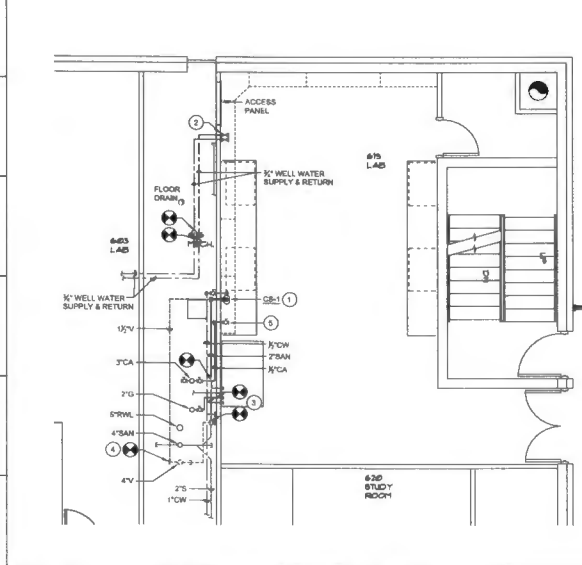
Project Name
Lab 619 Modifications
 College of Arts & Sciences - Dept of Physics

Sheet Title
ELEVATIONS

No.	Revision Description	Drawn by/Checked by	Date

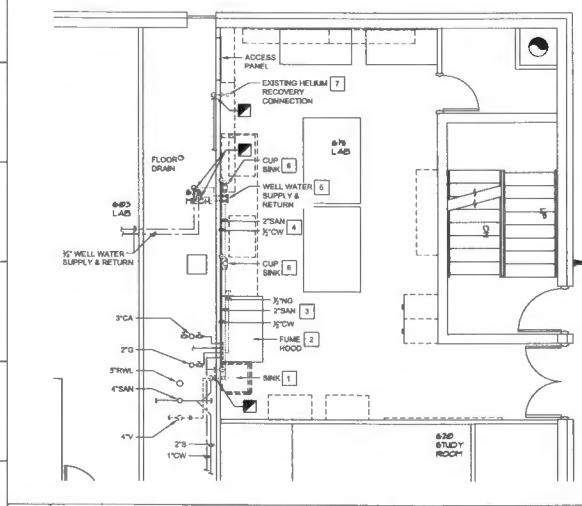
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	170011462N_Lab_619_Modifications 01_Design/Design/619Mod/	
	FSU Project No 17001111	A201
	Building Name & No Keen Building, Bldg. No. 41	

170011462N_Lab_619_Modifications/01_Design/Design/619Mod/



- NEW WORK KEY NOTES - PLUMBING**
- 1 NEW CUP SINK AND FAUCET (SEE 1) PROVIDE 2" SANITARY, 1/2" V, AND 3/4" CW CONNECTIONS.
 - 2 CONNECT NEW 3/4" WELL WATER SUPPLY AND RETURN LINES TO EXISTING LINES. EXTEND TO NEW LOCATION OF EXISTING WELL WATER VALVES AS SHOWN. WELL WATER VALVES TO BE INSTALLED BELOW HIREMOLD AS INDICATED.
 - 3 CONNECT NEW 2" SANITARY AND 3/4" CW LINES TO EXISTING LINES. EXTEND TO NEW CUP SINK AS SHOWN.
 - 4 CONNECT NEW 1/2" V TO EXISTING LINE. EXTEND TO NEW CUP SINK AS SHOWN.
 - 5 CONNECT NEW 3/4" V TO EXISTING LINE. EXTEND TO NEW 7' COMPRESSED AIR CONNECTION BELOW CABINET AS SHOWN. 10' WEL WITH BALL VALVE, 1/2" A.F.F. SECURE COMPRESSED AIR CONNECTION TO WALL. PROVIDE WITH ESCUTCHEON PLATE.

G1 PLUMBING - NEW WORK PLAN



- DEMOLITION KEY NOTES - PLUMBING**
- 1 DEMOLISH SINK AND ASSOCIATED APPURTENANCES, CAP CW AND SANITARY WASTE AREA (BEHIND REAR WALL).
 - 2 FUME HOOD TO REMAIN. NEW CABINET BASE TO BE PROVIDED. CONTRACTOR SHALL DISCONNECT AND RECONNECT HOOD UTILITIES AS REQUIRED AND PER MANUFACTURER'S RECOMMENDATIONS.
 - 3 DEMOLISH 2" SANITARY AND 3/4" CW LINES BELOW COUNTER. DEMOLISH ABANDONED 3/4" CW LINE LOCATED 5'1" ABOVE COUNTER TOP.
 - 4 DEMOLISH 2" SANITARY AND 3/4" CW LINES BELOW COUNTER.
 - 5 RELOCATE EXISTING 3/4" WELL WATER SUPPLY AND RETURN VALVES AND LINES. PATCH REAR CABIN WALL SUBSTRATE TO RECEIVE NEW FINISHES.
 - 6 DEMOLISH CUP SINK, FAUCET, 3/4" CW CONNECTION, 2" SANITARY WASTE ASBL AND ASSOCIATED APPURTENANCES.
 - 7 DEMOLISH HEILAM RECOVERY VALVE AND CONNECTION STUB-OUT. CAP LINE BEHIND WALL.

A1 PLUMBING - DEMOLITION PLAN

PLUMBING FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MODEL	TRIM & ACCESSORIES	RUNOUT SIZES		
				COLD	HOT	WASTE
SEE 1	850x500mm DEEP OVAL CUP SINK FABRICATED OF 18 GAUGE TYPE 316 STAINLESS STEEL, POLISHED BY POLYMER FINISHES AND TOP FLANGE, 1/2" L.P.B., TYPE 316 STAINLESS STEEL PIPE WITH INTEGRAL CROSSROAD STRIKER.	JUET MFG A-1983	JUET MFG. 2x1/2-1/2. SINGLE HOLE, SINGLE SUPPLY DECK MOUNTED FAUCET, SOLID CAST BRASS BODY, BRASS REGO 2000SINCE, SPOUT 13-1/8" H50L, HOOD SPOUT LOCATION IS ADJUSTABLE, BRASS QUARTER TURN COMPRESSOR SHIM UNIT, CHROME PLATED DR. CAST LEVER HANDLE, VANDAL RESISTANT, 2.2 GPM FLOW RESTRICTING REGULATOR, ADA COMPLIANT.	1/2"	-	1-1/2"

PLUMBING NOTES

GENERAL CONDITIONS

1. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED TO COMPLETE ALL WORK SHOWN ON THE CONTRACT DRAWINGS.
2. ALL CONSTRUCTION SHALL CONFORM TO APPLICABLE CODE STANDARDS INCLUDING: FLORIDA BUILDING CODE, BUILDING (FBC-11), 2014 EDITION; FLORIDA PLUMBING CODE, PLUMBING (FPC-11), 2014 EDITION; STATE AND LOCAL CODES AND ORDINANCES.
3. THE BIDDERS SHALL INSPECT THE PRESENT JOB SITE CONDITIONS BEFORE PREPARING A BID. THE SUBMISSION OF A BID WILL BE CONSIDERED EVIDENCE THAT SUCH A VISIT AND INSPECTION WAS PERFORMED BY THE BIDDER AND THAT HE TAKES FULL RESPONSIBILITY FOR ALL FACTORS GOVERNING HIS WORK.
4. THE CONTRACTOR IS EXPECTED TO PROVIDE PROFESSIONAL WORK PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARDS AND GOOD PRACTICE. WORK SHALL CONFORM TO THE MANUFACTURER'S INSTRUCTIONS AND THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT.
5. THE CONTRACTORS ARE EXPECTED TO FIELD VERIFY ALL DIMENSIONS. CONTRACTORS ARE EXPECTED TO ACCOUNT FOR FIELD CONDITIONS. CONTRACTORS ARE EXPECTED TO COORDINATE IN ORDER TO AVOID INTERFERENCE BETWEEN TRADES. CONTRACTORS ARE EXPECTED TO INSTALL EQUIPMENT SUCH THAT PROPER MAINTENANCE CLEARANCES ARE MAINTAINED FOR EQUIPMENT OF ALL TRADES. IF CHANGES TO THE CONTRACT DOCUMENTS ARE NECESSARY TO AVOID CONFLICTS, THE CONTRACTOR IS RESPONSIBLE FOR REQUESTING CLARIFICATION IN A TIMELY FASHION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEFICIENCIES ASSOCIATED WITH WORK PERFORMED BEFORE OBTAINING CLARIFICATION.
6. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL CLEAN SPACES THAT WERE OCCUPIED BY TEMPORARY WORK AND TEMPORARY FACILITIES, REMOVE DEBRIS, RUBBISH AND EXCESS MATERIALS FROM THE SITES, REPAIR DAMAGES CAUSED BY INSTALLATION OR USE OF TEMPORARY FACILITIES.

GENERAL PLUMBING NOTES

1. PLUMBING PLANS ARE SCHEMATIC. LOCATE PIPING TO AVOID FIELD INTERFERENCES. CHECKS IN THE PIPING SCHEMATIC REQUIRES PRIOR APPROVAL OF THE ENGINEER.
2. THE CONTRACTOR IS EXPECTED TO VERIFY DIMENSIONS AND FIELD FABRICATE PIPING AS NECESSARY TO ACCOMMODATE CONDITIONS.
3. PRIOR TO ANY NEW WORK, THE CONTRACTOR SHALL VERIFY BY ALL MEANS AVAILABLE THE DIRECTION OF FLOW OF ALL EXISTING PIPING THAT WILL BE TIED INTO FOR THE NEW WORK. REPORT TO THE ENGINEER ANY DIFFERENCES FROM WHAT THE CONTRACT DOCUMENTS SHOW.

MATERIALS AND DEVICES

1. ALL MATERIALS, EQUIPMENT AND APPARATUS COVERED BY THIS SPECIFICATION SHALL BE NEW OF CURRENT MANUFACTURE.
2. CONNECTION JOINTS BETWEEN PLASTIC AND METALLIC PIPE SHALL BE MADE WITH TRANSITION FITTING FOR THE SPECIFIC PURPOSE.

PIPING NOTES

1. INSTALL GRAVITY LINES AT UNIFORM GRADES.
2. INSTALL SLEEVES AT ALL PENETRATIONS WHERE CONCRETE MIGHT CONTACT COPPER PIPING. PROVIDE SLEEVES AND SEAL ALL PENETRATIONS OF FULL HEIGHT WALLS AIR TIGHT. PROVIDE SLEEVES AT ALL PENETRATIONS OF FLOOR. PROVIDE POLY FIBER COVER OR INSULATION WHERE COPPER PIPING IS ENCASED WITHIN CMU WALLS.
3. LOCATE ALL VALVES AND OTHER DEVICES WHICH REQUIRE MAINTENANCE IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS IF NECESSARY.
4. PIPING INSTALLATIONS ARE EXPECTED TO BE REGO, SUPPORT AND SECURE PIPING IN ACCORDANCE WITH GOOD PRACTICES.
5. LABEL ALL COLD DOMESTIC WATER SUPPLY & RETURN PIPING AT EACH VALVE LOCATION & NO LESS THAN 30" O.C.

FIXTURES AND TRIM

1. EQUIPMENT SHALL BE UNDMAGED AND CLEANED.
2. ALL EXPOSED DRAIN PIPING SHALL BE CHROME PLATED BRASS NO LESS THAN 17 GAUGE. TRAPS SHALL BE 17 GAUGE FULLY CAST BRASS WITH CLEANOUT PLUGS.
3. ESCUTCHEONS SHALL BE CHROME PLATED CAST BRASS WITH SET SCREWS.

CLOSEOUT, TESTING AND INSPECTIONS

1. COORDINATE INSPECTIONS WITH THE SPECIFICATIONS.
2. ALL DOMESTIC WATER PIPING SHALL BE STEER LINED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN THE FBC, PLUMBING CODE.
3. ALL WATER SUPPLY PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH THE FBC, PLUMBING CODE BUT NOT LESS THAN 150 PSI.
4. ALL WASTE AND VENT PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH THE FBC, PLUMBING CODE BUT NOT LESS THAN 10" OF HEAD.
5. NO PIPING SHALL BE COVERED OR CLOSED UP BEFORE INSPECTION AND APPROVAL. PROVIDE TEST TEES AT CONNECTION TO EXISTING AT EACH FLOOR & AS NEEDED FOR COMPLETE TESTS.

ABBREVIATIONS

AC	ABOVE CEILING
AF	ABOVE FLOOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BF	BARRIER FREE
BFF	BELOW FINISHED FLOOR
BPF	BELOW FINISHED FLOOR
BQ	BACKLOW PRESERVER
BS	BELOW GRADE
BS	BELOW SLAB
CA	COMPRESSED AIR
CD	CLEANOUT
CS	CUP SINK
OW	COLD WATER
OW	COLD WATER SUPPLY
OW	COLD WATER DOWN
ESBT	EXISTING
EDD	FLOOR CLEANOUT
FD	FLOOR DRAIN
HDP	HORIZONTAL
HW	HOT WATER
HWB	HOT WATER SUPPLY
HW EL	INVERT ELEVATION
NR	NOT APPLICABLE
PM	PLUMBING DRAINAGE INSTITUTE
PH	PHASE
SBL	SUB
SAN	SANITARY
SB	SUB
TYP	TYPICAL
V	VENT
VOLT	VOLTAGE
W	WASTE
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTER

PLUMBING LEGEND

	SANITARY PIPING AFF
	SANITARY PIPING BFF
	VENT PIPING
	COLD WATER PIPING
	COOL WATER PIPING
	CAP
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	TEE, OUTLET UP
	TEE, OUTLET DOWN
	GALL VALVE
	BALL VALVE
	COST. COMP. PIPING TO BE REMOVED
	CONNECTION NEW TO EXISTING
	LIMIT OF DEMOLITION

A10 PLUMBING - LEGEND AND NOTES

No.	Submission:	Drawn:	Checked:	Date:
1	50% CONSTRUCTION DOCUMENTS	AEP	PJM	5/18/2017
1	100% CONSTRUCTION DOCUMENTS	AEP	PJM	8/15/2017
No.	Revision Description:	Drawn by/Checked by:	Date:	

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Project Name:
Lab 619 Modifications
College of Arts & Sciences - Dept of Physics

PLUMBING DEMOLITION AND NEW WORK PLUMBING PLANS

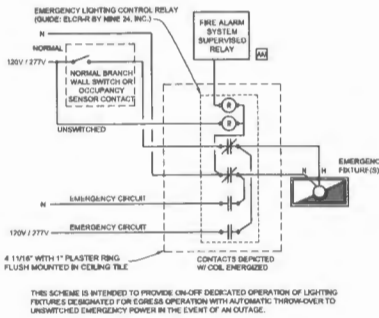
Subcontractor:
**ARC-Curtiss & Fleming
 Engineering, Inc.**
Professional Seal of the Registered Professional Engineer
 License No. 15495

Project Folder Name:
 1700111-REN_Lab_619_Modifications
 (17_DesignDrawings.plt)

FSU Project No:
 1700111

Building Name & No:
Keen Building Bldg. No. 41

Drawing No:
P100



PROVIDE FACTORY PREPARED INSTALLATION DRAWINGS FOR RACEWAY AND APPROVAL BEFORE FABRICATION OF ANY RACEWAY SYSTEMS.

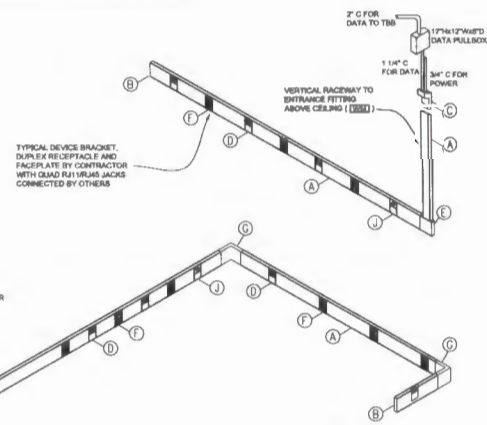
PROVIDE THE TWO-PIECE SURFACE METAL RACEWAY SHOWN ON THE DRAWINGS. RACEWAY SHALL BE WIREMOLD OR SHOD BILES WITH 1/4\"/>

GENERALLY ONE DUPLEX RECEPTACLE SHALL BE INSTALLED WITH SPACING INDICATED ON THE POWER PLANS. DATA OUTLETS SHALL BE INSTALLED ALONGSIDE THE RECEPTABLE AT UNIFORM SPACING INDICATED ON THE SYSTEMS PLANS.

COLOR/FINISH SHALL BE STAINLESS STEEL.

REFER TO PLANS FOR HORIZONTAL RACEWAY LENGTH AND DEVICE COUNT FOR EACH LOCATION.

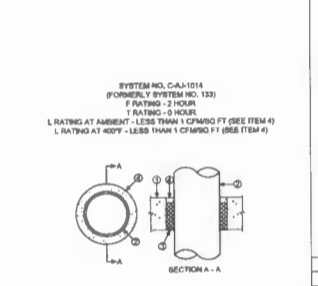
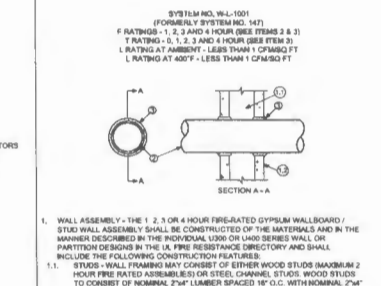
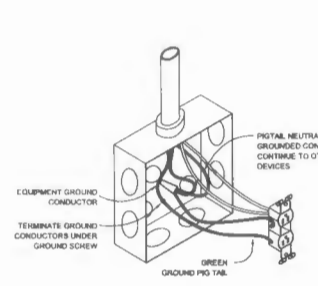
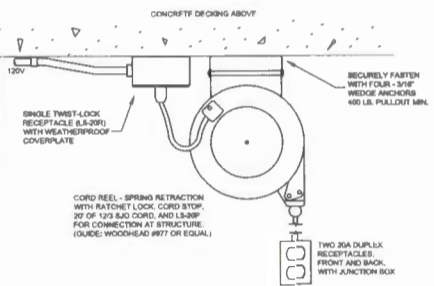
COORDINATE WITH ARCHITECTURAL FOR MOUNTING HEIGHT.



- PROVIDE THE FOLLOWING COMPONENTS WHERE INDICATED ON THE DRAWINGS:
- ① TWO-PIECE SURFACE MOUNTED RACEWAY 4 7/8\"/>
 - ② BLANK FNG FITTING FOR CLOSING OPEN FNG OF BASE.
 - ③ ENTRANCE FITTING WITH CONCENTRIC KNOCK-OUTS ON END, SIDE AND BOTTOM.
 - ④ DUPLEX RECEPTACLE PER SPECIFICATIONS - SPACING AS INDICATED ON THE PLANS. SEE POWER PLANS FOR OTHER REQUIREMENTS.
 - ⑤ 2\"/>
 - ⑥ DATA OUTLETS SHALL BE FINISHED ON A COMMON SNAP-IN PLATE WITH THE DUPLEX RECEPTACLE DEVICE. DATA PLATES SHALL ACCEPT STANDARD CIRCUIT BREAKER JACKS. THE OWNER WILL FURNISH JACKS AND INSTALL.
 - ⑦ 2\"/>
 - ⑧ WALL BOX CONNECTOR WITH CONCENTRIC KNOCK-OUTS FOR DIRECT CONNECTION TO NEW RECESSED BOXES FOR POWER AND DATA FEEDS.
 - ⑨ SPECIAL ILLUM RECEPTACLE AS INDICATED ON PLAN VIEW.

J1 EM LIGHTING CONTROL DETAIL (ALTERNATE)

J7 WIREMOLD DETAIL (ALTERNATE)



D1 CORD REEL INSTALLATION

D5 RECEPTACLE DETAIL

A9 PENETRATION DETAILS 'A' & 'B'

EACH JUNCTION BOX COVER SHALL BE LABELED WITH A PERMANENT "TAG" MARKER OR OTHER PERMANENT MEANS TO IDENTIFY THE CIRCUITS OR SYSTEM CABLES WITHIN. INCLUDE THE PANEL AND CIRCUIT BREAKER NUMBER FOR ALL POWER CIRCUITS WITHIN. FOR EXAMPLE, A JUNCTION BOX CONTAINING LIGHTING CIRCUITS 21, 23, 25 FROM PANEL "HF" WOULD BE LABELED "HF-21, 23, 25" AS SHOWN.

FIRE ALARM JUNCTION BOXES SHALL BE LABELED "FA" AND PAINTED RED.

SEE SPECIFICATIONS FOR ADDITIONAL COLOR CODING REQUIREMENTS.

EQUIPMENT IDENTIFICATION SHALL BE MADE USING ENGRAVED UNPAINTED PLASTIC PLATES (ENGRAVED TAPE LABELS WILL NOT BE PERMITTED). CHARACTERS SHALL BE WHITE ON A BLACK BACKGROUND AND 1/4\"/>

MAXIMUM PIPE DIAMETER (INCHES)	MINIMUM ANNUAL F RATING (HOURS)	F RATING (HOURS)	T RATING (HOURS)
4	0 - 1-1/2	1 OR 2	0

A1 IDENTIFICATION

A5 NAMEPLATE DETAIL

A9 PENETRATION DETAILS 'A' & 'B'

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Project Name:
Lab 619 Modifications
College of Arts & Sciences - Dept of Physics

Owner:
ELECTRICAL DETAIL

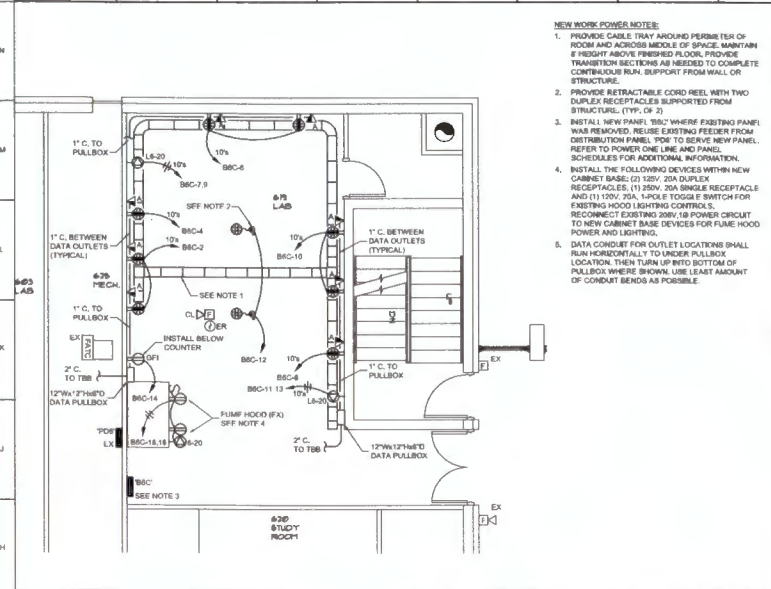
Design/Engineer:
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(904)644-4801

Project Folder Name:
F:\01\146\Lab_619_Modifications\01_Design\Drawings\lab619.dwg

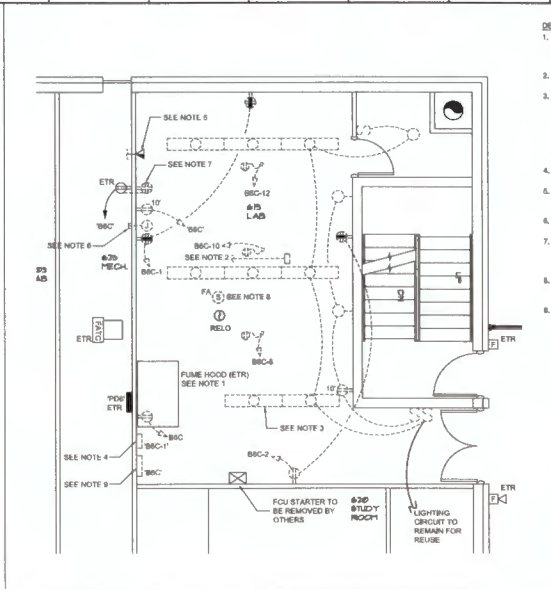
Project No:
1700111

Building Name & No.:
Keen Building, Bldg. No. 41

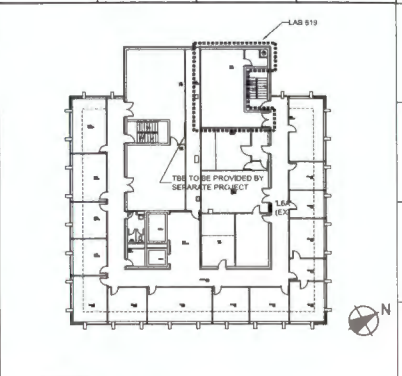
Drawing No:
E101



G1 NEW WORK POWER AND SYSTEMS PLAN (BASE BID)
1/4" = 1'-0"



G9 DEMOLITION PLAN
1/4" = 1'-0"

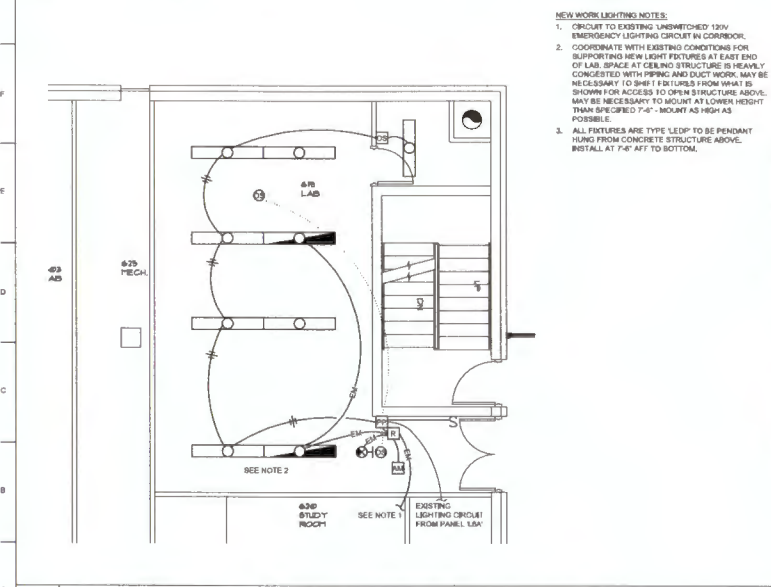


K16 KEYPLAN
1" = 20'-0"

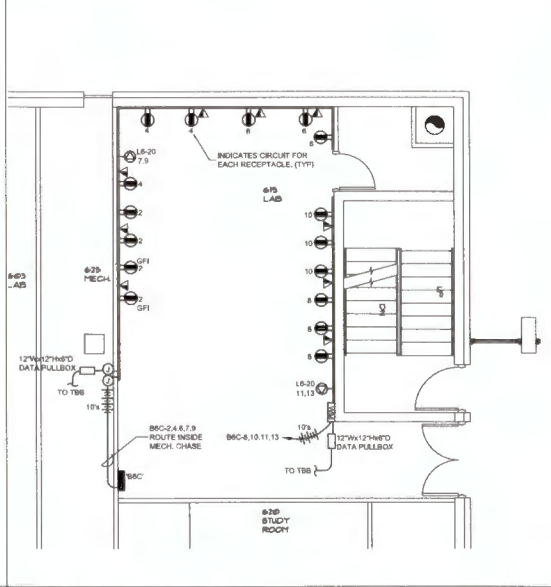
LIGHTING FIXTURE SCHEDULE						
FIXTURE MARK	MOUNTING	NO.	WATTS	TYPE	LUMENS	DESCRIPTION
EXIT (Q)	SURFACE	-	-	LED	-	EDGE-LIT LED EXIT SIGN FIXTURE, AC ONLY, UNIVERSAL MOUNTING, RED LETTERING, WHITE FINISH HOUSING, DIRECTIONAL CHEVRON ARROWS AS INDICATED ON ELECTRICAL PLANS OR LIFE SAFETY PLANS, 120V/277V DUAL VOLTAGE, (GRADE: PHOS-349 SERIES)
LEDP	PENDANT	-	9.3 PER FOOT	LED	990 PER FOOT	HIGH PERFORMANCE, 4" APERTURE, DIRECT LUMINA LED FIXTURE, VERY HIGH LIGHT OUTPUT, FLUSH DOWNLIGHT DR-PLUS-LR, EXTRUDED ALUMINUM BODY, DIE-CAST ALUMINUM END CAPS, WHITE POWDER COAT FINISH, 5" FOOT LENGTHS, OR AS SHOWN, WITH BEND-TO-END MOUNTING, NON-DIMMING, 4000K, 120 VOLT, (GRADE: PFM11T-HP-0 D SERIES)

LIGHTING FIXTURE SCHEDULE NOTES	
1.	EXACT LOCATION OF FIXTURES SHALL BE AS SHOWN ON REFLECTED CEILING PLANS
2.	STEEL USED IN FABRICATION OF LIGHT FIXTURES SHALL BE NOT LESS THAN 22 GA. TROFFER PRE-PAINTED STEEL HOUSING IS ACCEPTABLE.

F14 LIGHT FIXTURE SCHEDULE (ALTERNATE)
NO SCALE



A1 NEW WORK LIGHTING PLAN (ALTERNATE)
1/4" = 1'-0"



A9 NEW WORK POWER AND SYSTEMS PLAN (ALTERNATE)
1/4" = 1'-0"

No.	Revision Description	Drawn by/Checked by	Date
1	90% CONSTRUCTION DOCUMENTS	TDB	BKW 5/19/2011
1	100% CONSTRUCTION DOCUMENTS	TDB	BKW 8/19/2011

FLORIDA STATE UNIVERSITY FACILITIES DESIGN and CONSTRUCTION FACILITIES DESIGN OFFICE 125 BLENDEHALL BUILDING A TALLAHASSEE, FLORIDA 32304-4111 (904)644-4601		
Project Name: Lab 619 Modifications College of Arts & Sciences - Dept of Physics		
Sheet Title: ELECTRICAL DEMOLITION AND NEW WORK PLANS		
Subcontractor: Mc-Guerin & Fleming Engineering, Inc.		
Date: 1/11/2011	Project Folder Name: 170011-HEM_Lab_619_Modifications G:\Design\Drawings\Lab619	Drawing No: E200
Author: Keith W. Fleming, PE #46107 Designer: Keith W. Fleming, PE #46107 Checker: Keith W. Fleming, PE #46107		
FSU Project No: 17001111 Building Name & No.: Keen Building, Bldg. No. 41		

LOAD / REMARKS	CR. NO.	BREAKER NO.	H.P. OR AMP/POLE	L.W. K.W.	AMPS PER PHASE						SPECIAL	H.P. OR AMP/POLE	CR. NO.	LOAD / REMARKS	
					BA	BB	BC	BA	BB	BC					
EXISTING LOAD	1.2	30	1								30	RECEPT (SOUTH WALL)			
EXISTING LOAD	1.3	30	1								30	RECEPT (SOUTH & WEST WALL)			
UTILITY CHASE RECEPT. (EX)	5.2	30	1								30	RECEPT (WEST WALL)			
FUTURE 200V LOAD	7.2	30	1								30	RECEPT (NORTH WALL)			
FUTURE 200V LOAD	8.2	30	1								30	RECEPT (NORTH WALL)			
FUTURE 200V LOAD	11.2	30	1								30	RECEPT (CORD REELS)			
SPARE	13.2	30	1								30	RECEPT (BELOW COUNTER)			
SPARE	15.2	30	1								30	FUME HOOD POWER LIGHTS			
SPARE	17.2	30	1								30	SPARE			
SPARE	19.2	30	1								30	SPACE			
SPARE	21.2	30	1								30	SPACE			
SPARE	23.2	30	1								30	SPACE			
SPARE	25.2	30	1								30	SPACE			
SPARE	27.2	30	1								30	SPACE			
SPARE	29.2	30	1								30	SPACE			
EST. CONNECTED NEW LOAD (AMPS)					14		10		11		EST. CONNECTED NEW LOAD (AMPS)				

- PANELBOARD SCHEDULE**
- FSU KEEN BLDG. 41 Tallahassee, Florida**
- Panel "B6C"
- Location ROOM 619
- Service 3 Phase 4 Wires
- 200Y/120V
- 480Y/277V
- Main Bk. - A - P
- Logic Only 100 A
- 10,000 A/C Mt.
- 80 Hz
- Surface mounted panel
- Flush mounted panel
- 307% Neutral Bar
- Remains NEW PANEL TO REPLACE EXISTING IN PLACE.
- SEE ONE LINE FOR GROUNDING INSTRUCTIONS.
- FIRE ALARM CONTROL PANEL IS EXISTING TO REMAIN AND IS LOCATED ON BASEMENT LEVEL. CORRIDOR HEAR LAMPING LOCK. EXISTING PANEL IS A CORNELL'S PYROTECHNICAL. SECURE THE SERVICES OF SERVICES TO REFORM THE FIRE ALARM SCOPE OF WORK.
 - PROVIDE PROTECTIVE SIGNALING SYSTEM BUTTABLE FOR TYPE OCCUPANCY AS DEFINED BY LOCAL BUILDING CODE AND AS APPROVED BY FIRE MARSHALL. THE SYSTEM SHALL CONSIST OF, BUT NOT BE LIMITED TO, TERMINATING CABINETS, ALARM BOUNDING DEVICES, AND FLASHING STROBE LIGHTS.
 - INSTALL THE REQUIRED WIRING IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. PROVIDE INSTALLATION DRAWINGS PREPARED BY THE EQUIPMENT MANUFACTURER FOR REVIEW, COLOR CODE WIRING AND INSTALL PER MANUFACTURER'S WIRING DIAGRAMS. INSTALLATION SHALL BE SUPERVISED BY A QUALIFIED LICENSED CONTRACTOR AND INSTALLED BY PERSONNEL SKILLED IN THE TRADE. OUTLET JACKS OF ALL MULTICONDUCTOR CABLES SHALL BE BRONZE RED. JACK 1 SHALL BE INTEND FOR INSTALLATION IN AIR FLENUM.
 - WIRING SHALL CONFORM TO NFPA 72 (2013) AND NFPA 96A (2006) AS APPLICABLE AND ARTICLE 780 OF THE NEC (2011). WIRING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AS NECESSARY TO PERFORM THE REQUIRED FUNCTION.
 - ALL WIRING SHALL BE IN STEEL CONDUIT. SEE GENERAL NOTES FOR ADDITIONAL CONDUIT ROUTING REQUIREMENTS.
 - CONTRACTOR MAY REUSE EXISTING CONDUIT AT HIS DISCRETION WHEN CONDUIT IS INSTALLED ACCORDING TO THE NATIONAL ELECTRICAL CODE AND SECTION 18102 OF THE SPECIFICATIONS. EXISTING WIRING SHALL NOT BE REUSED IN ANY CASE.
 - UNLESS STATED OTHERWISE, MOUNTING HEIGHTS ARE TO BOTTOM OF DEVICE. ROUGH-IN OUTLET BOXES AT HEIGHT APPROPRIATE FOR DEVICE TO BE INSTALLED. MOUNTING HEIGHTS SHALL BE AS INDICATED AND IN ACCORDANCE WITH NFPA 72 AND THE FLORIDA ACCESSIBILITY CODE IN FBC 5TH EDITION. NOTIFICATION APPLIANCES SHALL COMPLY WITH NFPA 72.
 - IN JUNCTION BOXES, TERMINAL CABINETS, CONTROL PANEL, OUTLET BOXES, DEVICES, ETC., WIRING SHALL TERMINATE ON IDENTIFIED TERMINAL STRIPS, WIRE NUTS OR OTHER SIMILAR SPLICING DEVICES SHALL NOT BE ACCEPTABLE IN ANY PART OF THE SYSTEM.
 - LEAD NEW JUNCTION BOX AND TERMINAL CABINET SHALL BE PAINTED PRE-TRUCK RED AND ALL CONDUIT SHALL BE SPOT PAINTED RED.
 - JUNCTION BOXES AND TERMINAL CABINETS SHALL BE SIZED AS PERCENT GREATER THAN IS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
 - FLASHING STROBE VISUAL DEVICES SHALL BE WIRRED SEPARATELY FOR 3-WIRE CLASS B SERVICE. ALL FLASHING STROBE LIGHTS SHALL MEET FLORIDA ACCESSIBILITY GUIDELINES IN FBC 5TH EDITION AND ADA REQUIREMENTS.
 - AUDIBLE SIGNAL DEVICES SHALL BE SYNCHRONIZED SO THAT SOUNDS FROM MULTIPLE SIGNALS WITHIN AN INDIVIDUAL'S HEARING AREA DO NOT OVERLAP AND INTERFERE WITH A DISTINCTIVE TEMPORAL PATTERN.
 - SYNCHRONIZED STROBES SHALL BE USED WHEN TWO OR MORE STROBES ARE WITHIN AN INDIVIDUAL'S FIELD OF VIEW, OR WHEN STROBES ARE SPACED LESS THAN 50 FEET APART.
 - DO NOT PASS ADDITIONAL WIRES (USED FOR OTHER THAN BOUNDING DEVICES) THROUGH DEVICE BACKBOXES. ALL SIGNALING DEVICES SHALL BE INSTALLED WITH DEDICATED CONDUIT DROPPED FROM MAIN SYSTEM RACEWAYS TO DEVICE BACKBOXES.
 - THE COMPLETED SYSTEM SHALL BE INSPECTED AND TESTED IN THE PRESENCE OF THE LOCAL FIRE MARSHALL AND THE ENGINEER.
 - THE COMPLETED SYSTEM SHALL BE FULLY TESTED AND CERTIFIED PRIOR TO THE COMPLETION OF THE PROJECT. PROVIDE TEST RESULTS AND CERTIFY COMPLETE SYSTEM AT THE COMPLETION OF THE PROJECT.
 - THE FIRE ALARM SYSTEM CONTRACTOR SHALL SUBMIT A SEPARATE PERMIT APPLICATION AND PLANS FOR REVIEW IN ACCORDANCE WITH NFPA 1, 1.14 AND FBC 2016 EDITION.
 - THE SINGLE LINE DIAGRAM IS FOR INFO PURPOSES ONLY. INITIATING CIRCUITS MAY BE PULLED IN CONDUIT ARRANGEMENTS OTHER THAN THAT SHOWN. HOWEVER SIGNALING CIRCUITS SHALL BE RUN SEPARATELY FROM ALARM INITIATING CIRCUITS.
 - PER NFPA 101 REQUIREMENTS, WHERE A REQUIRED FIRE ALARM SYSTEM IS OUT OF SERVICE FOR MORE THAN 4 HOURS IN A 24-HOUR PERIOD, THE AUTHORITY HAVING JURISDICTION SHALL BE NOTIFIED AND THE BUILDING SHALL BE EVACUATED. ON AN APPROVED FIRE WATCH SHALL BE PROVIDED FOR ALL PARTIES LEFT UNPROTECTED BY THE SHUTDOWN UNTIL THE FIRE ALARM SYSTEM HAS BEEN RETURNED TO SERVICE.
 - PROVIDE ALL HARDWARE NECESSARY TO TIE-IN WITH THE EXISTING CAMPUS MONITORING SYSTEM. MATCHING THE EXISTING ADDRESSABLE DIGITAL FIRE SYSTEM IN USE IN A FACILITY IS REQUIRED.
 - THE CONTRACTOR AND THE EH&S FIRE SAFETY SECTION SHALL TEST THE FIRE ALARM SYSTEM BEFORE ANY RENOVATION OR MODIFICATION IS MADE. ANY PART OF THE SYSTEM NOT WORKING PROPERLY SHALL BE NOTED OR REPAIRED BEFORE ANY CONSTRUCTION BEGINS.
 - ON RENOVATIONS, ALWAYS REMOVE EXISTING WIRING AND INSTALL NEW PROPERLY COLOR CODED.
 - PROGRAMMING OF THE FIRE ALARM SHALL BE AS SPECIFIED BY THE UNIVERSITY. CONSULT WITH EH&S SAFETY SECTION CONCERNING THE REQUIREMENTS. PROGRAMMING INCLUDES, BUT IS NOT LIMITED TO, FUNCTION KEYS, FAAP, SOFTWARE ZONES, ETC.

J1 PANEL SCHEDULES (NEW WORK)

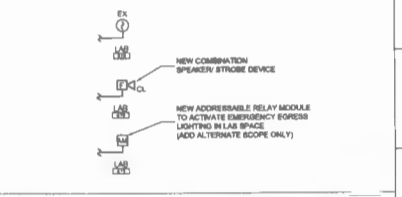
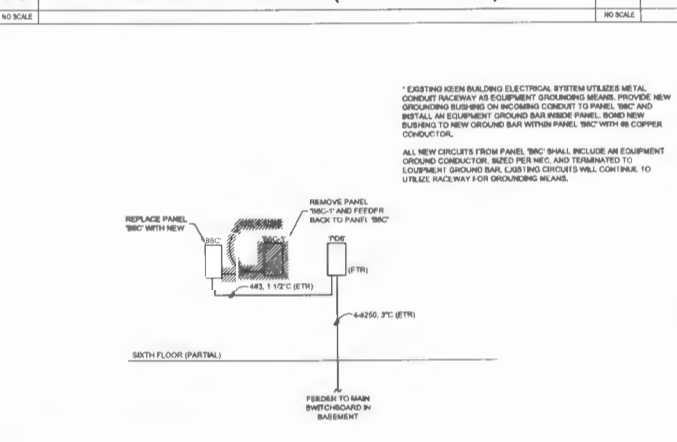
LOAD / REMARKS	CR. NO.	BREAKER NO.	H.P. OR AMP/POLE	L.W. K.W.	AMPS PER PHASE						SPECIAL	H.P. OR AMP/POLE	CR. NO.	LOAD / REMARKS	
					BA	BB	BC	BA	BB	BC					
ABANDONED CIRCUIT	1.2	30	1								30	ABANDONED CIRCUIT			
ABANDONED CIRCUIT	1.3	30	1								30	ABANDONED CIRCUIT			
ABANDONED CIRCUIT	5.2	30	1								30	ABANDONED CIRCUIT			
ABANDONED CIRCUIT	11.2	30	1								30	ABANDONED CIRCUIT			
ABANDONED CIRCUIT	13.2	30	1								30	ABANDONED CIRCUIT			
EXISTING LOAD	17.2	30	1								30	ABANDONED CIRCUIT			
SPARE	19.2	30	1								30	ABANDONED CIRCUIT			
SPARE	21.2	30	1								30	ABANDONED CIRCUIT			
EXISTING LOAD	23.2	30	1								30	ABANDONED CIRCUIT			
SPARE	25.2	30	1								30	ABANDONED CIRCUIT			
SPARE	27.2	30	1								30	ABANDONED CIRCUIT			
SPARE	29.2	30	1								30	ABANDONED CIRCUIT			
TOTAL CONNECTED LOAD (AMPS)											TOTAL CONNECTED LOAD (AMPS)				

J9 FIRE ALARM NOTES



F9 FIRE ALARM ONE LINE (DEMOLITION)

F15 FIRE ALARM ONE LINE (NEW WORK)



A1 PANEL SCHEDULES (DEMOLITION)

A9 PARTIAL POWER ONE LINE DIAGRAM

No.	Submittals:	Drawn:	Checked:	Date:
1	80% CONSTRUCTION DOCUMENTS	TEB	BLW	5/19/2017
1	100% CONSTRUCTION DOCUMENTS	TEB	BLW	8/19/2017

No.	Revision Description	Drawn by/Checked by	Date

FLORIDA STATE UNIVERSITY

FACILITIES DESIGN AND CONSTRUCTION

121 WENDERM HALL, BLDG. 110A
TALLAHASSEE, FLORIDA 32304-4533
(904)644-4811

Project Name:
Lab 619 Modifications
College of Arts & Sciences - Dept of Physics

Drawn By:
ELECTRICAL PANEL SCHEDULES AND ONE-LINE DIAGRAM

Submittals:
McGinnis & Fleming
Engineering, Inc.
1510 Alameda Ave., Suite 507
Tallahassee, FL 32304-3217

Project Folder Name:
1700111-ENR_LAB_619_Modifications
01_Design/Drawings/Model/4

FSU Project No:
1700111

Building Name & No.:

Keen Building, Bldg. No. 41

E300

PART 3 - EXECUTION

RACEWAY INSTALLATION

All interior and above grade exterior wiring shall be installed in a metal conduit and all embedded in concrete or below grade wiring shall be in PVC conduit unless indicated otherwise on the drawings.

No conduit smaller than 3/4 inch electrical trade size shall be used, nor shall any have more than three 90 degree bends in any one run. Full boxes shall be provided as required or directed.

No wire shall be pulled until the conduit system is complete in all details.

The ends of all conduits shall be tightly plugged to exclude dust and moisture during construction.

Conduit support shall be spaced at intervals of 8 ft. or less, as required to obtain rigid construction.

Single conduits shall be supported by means of two-hole pipe clamps. Multiple runs of conduits shall be supported on trapeze type hangers with steel horizontal members and threaded hanger rods. The rods shall be not less than 3/8 inch diameter. The channel shall be not less than 1 1/2" nominal size.

Conduit hangers shall be attached to structural steel by means of beam or channel clamps.

All conduits on exposed work shall be run at right angles to and parallel with the surrounding walls and shall conform to the form of the ceiling. No diagonal runs will be allowed. Bends in parallel conduit runs shall be concentric. All conduit shall be run straight and true.

Conduit terminating in sheet steel boxes shall have double locknuts and insulated bushings.

Provide expansion coupling every 100 feet for long runs of conduit and at concrete expansion joints. Provide ground bonding jumpers around expansion couplings, used on metallic conduit, sized according to Table 250-122 of the NEC.

Seal all wall penetrations to watertight condition. Patch as applicable to location.

Approval by the Architect shall be required to install conduit in structural members.

In general, the conduit installation shall follow the layout shown on the plans. This layout is, however, diagrammatic only, and where changes are necessary due to structural conditions, other apparatus or other causes, such changes shall be made without additional cost to the Owner. It is recognized that branch circuit routing shown on the drawings may not always be the most economical or the most feasible method. Routing may be changed by the Contractor subject to the following provisions:

Conduits shown routed overhead may not be installed in or below slabs or in walls.

Not more than three circuits may be installed in any one conduit. Care must be taken to provide the appropriate number of neutrals where two or three circuits are on the same phase.

All conduit shall be concealed unless otherwise noted on the drawings.

Exposed conduit will be permitted only as shown on the drawings. Exposed conduit shall be run parallel with or at right angles to the building walls.

All empty conduits shall be provided with a plastic pull wire rated for a minimum of 200 lbs.

Conduit stub-ups at panels shall be secured in place by use of Unistrut and clamps.

Conduit and tubing shall be kept at least twelve (12) inches from parallel runs of flues, steam pipes or hot water lines.

Telephone and data raceways shall be 1" minimum. This includes conduits stubbed up into ceiling cavity.

Flexible conduit in all areas subject to moisture shall be liquid-tight flexible conduit.

All electrical connections to vibration isolated equipment shall be made with flexible conduit.

All conduit passing through a structural expansion joint shall be provided with a UL approved expansion joint fitting and bonded as required by the National Electrical Code.

Any wiring in a finished area which cannot be concealed in conduit shall be installed in a surface metal raceway system as manufactured by Wyemold or equal. Utilization of surface metal raceway, if not indicated as such on the plans, will be accomplished only with the written approval of the Architect.

Conduit run in areas with hung ceilings shall be installed in the space above the hung ceiling as close to the structure as possible. Conduits shall be supported from the structure.

Where flex conduit is used from junction box to light fixture it shall be supported such that it does not touch ceiling tiles or interfere with their placement.

Flexible metal conduit connections to light fixtures shall be at least 4 feet but not more than 5 feet in length per NEC 410-117(c).

RACEWAY INSTALLATION - CONDITIONS

Conduit raceways shall be installed as indicated herein. Where more than one type of raceway is listed under one condition, the Contractor may exercise his option of the raceway used. Conditions of raceway installation are as follows:

Exposed Raceway Below 8'-0" from Finish Floor and in Areas Subject to Moisture: Rigid galvanized steel conduit.

Raceway Concealed Overhead, or in Walls: Rigid galvanized steel conduit or electrical metallic tubing (EMT).

Final Raceway Connection to Recessed Fixtures in Accessible Locations: Flexible steel conduit maximum of 6'-0" long.

WIRING

All conductors shall be carefully handled to avoid kinks or damage to insulation.

All wires, cables and each conductor of multi-conductor cables shall be uniquely identified at each end by color or with wire and cable markers. Lighting and receptacle wiring shall be distinctly differentiated and junction boxes marked.

Lubricants shall be used, if required, to facilitate wire pulling. Lubricants shall be UL approved for use with the insulation specified.

Neutral wires shall be parallel to receptacles so that a receptacle can be removed for replacement without the neutral connection to other receptacles on the circuit being disconnected.

Tighten electrical connections and terminals, including screws and bolts, in accordance with manufacturer's published torque tightening values. Where manufacturer's torqueing requirements are not indicated, tighten connections and terminals to comply with tightening torques specified in UL 486A.

When stranded wire is used for receptacle and lighting circuit, connections to the devices shall be made using vinyl insulated "Sta-Kon" connector terminals.

All 600 Volt wire insulation shall be tested with a "megger" after installation. Tests shall be made at not less than 500 Volts.

OUTLET BOXES

Outlet boxes for flush mounted lighting fixtures shall be accessible. If lighting fixture is in a non-accessible ceiling the box shall be accessible when the fixture is removed.

Set boxes plumb and such that their device mounting plane is within 1/8" of the finished wall.

The location of boxes on the electrical plans is approximate. Review architectural drawings for specific location or if not shown center and align with architectural detail. The Architect shall reserve the right to move boxes during rough in.

DEVICES

Unless indicated otherwise on the drawings or in the specifications all receptacles shall be mounted with the centerline of the device 18" above the finished floor.

Receptacles shall be installed with the grounding contact at the top. Where receptacles are required to be mounted horizontally they shall be installed with the neutral contact at the top.

Mount all devices so that the cover plate edges are in contact with the wall and are parallel to building features.

PANELBOARDS

Mount panelboards such that top most circuit breaker handles shall not be more than 6'-6" above finished floor.

Where panelboards are to be installed on masonry unit walls, including poured reinforced concrete or brick veneer type, install two vertical sections of galvanized steel channel between enclosure and masonry surface. Channel shall be lagged to wall in three places (each length) and the enclosure bolted to the secured channel using stainless steel or galvanized steel hardware. Galvanized channel shall run the entire length of the enclosure, but shall not be exposed at either the top or bottom of the enclosure.

Only one conductor shall be allowed under each terminal of circuit breakers. No splices are permitted in panelboards. Tighten connectors and terminals in accordance with equipment manufacturer's published torque tightening values for equipment connectors.

Complete and install a typewritten directory for each panelboard that accurately indicates all loads being served by each breaker.

GROUNDING

Ground all non-current carrying metal parts of the electrical system to provide a low impedance path for ground fault current. Route ground connections and conductors to ground and protective devices in shortest and straightest paths as possible.

Insulated grounding bushings shall be required for all raceways, service entrance panels, distribution panels, all receptacles one inch and larger and any raceway entering a concrete knockout.

In general a ground wire shall be installed in every conduit. The conduit installation itself shall serve as an additional grounding means.

Where there are parallel feeders installed in more than one raceway, each raceway shall have a ground conductor.

Where conduits terminate without mechanical connection (i.e. locknuts and bushings) to panelboards, and for all terminations of conduit sizes one inch and larger; and for all sizes of metallic conduit (rigid or flexible) terminating in concentric knockouts, the following procedure shall be followed: Each conduit shall be provided with an insulated grounding bushing and each bushing connected with a bare copper conductor to the ground bus in the electrical equipment. The ground conductor shall be in accordance with Article 250 of the NEC.

Grounding conductors shall be attached to equipment with a bolt-on lug or approved tapered screw used for no other purpose. Use crimp-on spade lugs for stranded conductors.

IDENTIFICATION

Junction Box Identification: Each junction box cover shall be labelled with a permanent "magic" marker or other means to identify the circuits within. For example, a junction box containing lighting circuits 21, 23, 25 from Panel L2A would be labeled "L2A-21,23,25".

Conductor Identification: All cables and wires shall be color coded as to phase per convention. See color coding above.

Device Identification: When it is not clear what a wall switch or what a receptacle is dedicated for then the device plate shall be engraved appropriately. Blank plates for future devices shall be engraved "FUTURE". All plates shall be factory-engraved.

FIREPROOFING

All conduit and boxes passing through or installed within fire walls and smoke walls shall be installed as to maintain the integrity and rating of the wall through which it passes. Boxes shall be installed within 1/8" of wall surface. Conduits penetrating rated floors shall be installed to maintain the fire rating of the floor using UL approved sealing materials.

END OF SECTION

No.	Substitution	Drawn	Checked	Date
1	CONSTRUCTION DOCUMENTS	TEB	BKW	5/18/2017
2	CONSTRUCTION DOCUMENTS	TEB	BKW	6/16/2017

No.	Revision Description	Drawn by	Checked by	Date
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FLORIDA STATE UNIVERSITY
FACILITIES DESIGN AND CONSTRUCTION
FACILITIES DESIGN OFFICE



121 WINDMILL HALL, Rm. 0201
TALLAHASSEE, FLORIDA 32304-1173
(904)644-0491

Project Name:
Lab 619 Modifications
College of Arts & Sciences - Dept of Physics

Rev. Title:
ELECTRICAL SPECIFICATIONS

Rev. Description:
M. Ginnick & Fleming
DESIGN GROUP, INC.
1400 W. 10th Street, Suite 100
Tallahassee, Florida 32304
904.644.0491

Rev. Description:
Project Folder Name:
1700114824_Lab_619_Modifications
P1_Design/016100-0101.dwg
FSU Project No:
1700114
Building Name & No.:
Keen Building, Bldg. No. 41

Drawing No:
E402!

PART 1 - GENERAL

RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

SUMMARY

This Section includes all labor, material, equipment and services necessary and incidental to complete all the demolition and removal of electrical work as shown on the Drawings or as required.

The demolition drawings do not necessarily indicate all the conditions, details, or work required. The Contractor shall examine the building to determine the actual conditions and extent of the work. Any details not clear to this Contractor shall be referred to the Engineer for clarification prior to bidding.

The Contractor shall be responsible for demolition and removal of all existing electrical systems where shown for demolition. No portion of electrical systems shown for demolition may be abandoned in place.

SUBMITTALS

Shop Drawings: Indicate demolition and removal sequence and location of salvageable items.

Schedules: Submit schedule showing time and detailed sequence of demolition, removal of materials and arranged coordination of anticipated electrical interruptions.

Schedule demolition and removal work to ensure uninterrupted progress of Owner's on-site operations.

Project Record Documents: Submit in accordance with Section 16010.

Accurately record actual locations of abandoned or dead end utilities.

QUALITY ASSURANCE

Contractor shall verify the extent of the demolition work. Any questions as to which systems are to be removed versus which systems are to remain shall be referred to the Engineer for clarification prior to commencing demolition work.

The demolition work shall be a phased operation and shall comply with the construction sequence schedule.

Do not close or obstruct egress width of fire exits or access.

Do not disable or disrupt building fire or life safety systems without written permission from the Owner. In all cases, permission shall have been granted not less than ten (10) working days prior to the intended interruption.

PROJECT CONDITIONS

Owner will vacate demolition area prior to start of demolition work.

Owner will continuously occupy areas of building immediately adjacent to selective demolition areas.

Conduct selective demolition work in manner that will minimize need for disruption of Owner's normal operations.

Provide minimum of ten (10) working days advanced notice to Owner of demolition activities which will severely impact Owner's normal operations.

Maintain free and safe passage to and from Owner occupied areas.

Condition of Structures: Owner assumes no responsibility for actual condition of areas to be demolished.

Traffic and Passageways: Maintain accessibility for fire fighting apparatus.

1. Conduct demolition operations and debris removal to avoid interference with adjacent occupied facilities.
2. Obtain written permission from authorities having jurisdiction prior to closing or obstructing adjacent occupied facilities.
3. Provide alternate routes when closing or obstructing traffic ways when required by governing authorities.
4. Ensure safe passage of persons around area of demolition. Provide and maintain temporary covered passageways; comply with requirements of governing authorities.

Protection: Perform work in manner to eliminate hazards to persons or property and avoid interference with adjacent areas.

1. Maintain existing utilities that are to remain in service and protect from damage during demolition operations.
2. Do not interrupt existing utilities serving occupied facilities, except when authorized by Owner in writing. Provide temporary services during interruptions.
3. Coordinate in advance with Owner electrical interruptions.
4. Protect existing floors with suitable coverings when necessary.

COORDINATION

The Contractor shall be responsible for coordinating shutdown of all affected electrical systems to prevent disruption to the Owner and minimize downtime.

The Contractor shall be responsible for coordinating demolition by other Divisions of the Specifications to prevent disruption to the Owner and minimize downtime.

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

EXAMINATION

Begining alterations to existing building systems means the installer accepts existing conditions.

PREPARATION

Provide, erect, and maintain temporary barriers, warning notifications (signs) and other security devices as may be required for personnel safety.

Inventory each panelboard where circuits are indicated to be reused. Sequentially consolidate existing circuits within each panelboard with regard to area served. Maximize capacity for service to the project area by including existing spares with the group of circuits breakers to be disconnected as a result of this selective demolition. Prepare a current directory, post demolition, for each panelboard as the base upon which the final directories will be compiled.

Temporarily tag every circuit breaker serving systems outside the demolition area. The tag shall be an OSHA compliant, commercially preprinted, 3/4 inch by 5-5/8 inch, accident prevention card with white on matte finish plastic surface, 1/4 inch reinforced grommet and attachment string loop. The message on the card front shall read: "DANGER, DO NOT OPEN" and the message on the reverse side shall read: "DANGER, DO NOT REMOVE THIS TAG. NECESSARY DISCIPLINARY ACTION WILL BE TAKEN IF THESE ORDERS ARE DISREGARDED. SEE OTHER SIDE." The tags shall remain in place until the demolition and renovation are complete.

TEMPORARY CONDITIONS

The Contractor shall include all temporary connections necessary to permit the Owner to occupy areas of the building during the various construction phases.

SALVAGEABLE MATERIAL AND EQUIPMENT

Carefully remove, store and protect the salvage materials and equipment shown on the Drawings for Owner's use. Deliver to location directed by Owner.

Carefully salvage, remove and store, and protect for re-installation the materials and equipment shown on the Drawings.

Materials Retained by Contractor:

1. Items of salvageable value not indicated as Owner salvaged or scheduled for reinstallation may be removed as work progresses.
2. Salvaged items must be removed from site as they are removed. Storage or sale of salvaged items on site will not be permitted.

REMOVAL OF DEMOLITION MATERIAL

Contractor shall remove existing systems, shown or specified, necessary or reasonably inferred, for completion of his/her work. Owner will have the option of retaining any item of material removed under this contract. Item or materials not retained by Owner will become the property of the Contractor, removed from the premises and legally disposed off-site.

Contractor shall dispose of fluorescent lamps, ballasts, and other hazardous materials in accordance with all Local, State and Federal regulations.

Contractor shall remove all wiring determined to be disconnected and abandoned, and remove all conduit and junction boxes determined to be empty and not intended to be used during the reconstruction phase.

Remove abandoned wiring to source of supply.

Remove all exposed abandoned conduit, including abandoned conduit above accessible ceiling finishes. Remove all junction boxes and conduit supports associated with conduit being removed.

Repair adjacent construction and finishes damaged during demolition and extension work.

Maintain continuity of circuits, which remain in service.

Remove all existing luminaires, switches, receptacles, and other electrical equipment and devices and associated wiring from walls, ceilings, floors, and other surfaces scheduled for demolition unless specifically shown as retain or relocate on drawings.

Remove auxiliary and signal systems (IE: fire alarm, security, telephone, data, sound/pegging and the like) not scheduled for reuse or relocation. Remove associated devices, appliances and cabling complete.

PERFORMANCE

Perform drilling, cutting, block-offs, and demolition work required for removal of necessary portions of electrical system. Do not cut joists, beams, girders, trusses, or columns without prior written permission from Architect/Engineer.

CLEANING

Broom clean demolition areas of dust, dirt, and debris caused by demolition operations. Return adjacent areas to condition existing prior to start of work.

Remove temporary work and protection when no longer needed.

Unless noted otherwise, existing fixtures that are to remain shall be cleaned and lamps and ballasts replaced with new lamps and ballasts.

END OF SECTION

A1 SPECIFICATIONS 16115 - SELECTIVE DEMOLITION

No.	Revision Description	Drawn by	Checked by	Date
05	CONSTRUCTION DOCUMENTS	TEB	BKW	5/18/2017
10	CONSTRUCTION DOCUMENTS	TEB	BKW	8/18/2017

FLORIDA STATE UNIVERSITY

JTTES DESIGN and CONSTRUCTION
FACILITIES DESIGN OFFICE



Project Name:
Lab 619 Modification
College of Arts & Sciences - Dept of Psychology

ELECTRICAL SPECIFICATIONS

Subcontractor:
**M-Grimm & Fleming
ENGINEERS, INC.**

Project Folder Name:
1700114614_Lab_619_Modification
01_Design/Drawings/Model/rev
FSU Project No:
1700111
Building Name & No:
Keen Building, Bldg. No. 41

E403