SCOPE OF WORK

This contract is executed between JEA and the General Contractor or Building Contractor to perform breakroom and bathroom renovation services including, but not limited to:

- Deep clean existing ceramic tile in restrooms, clean tile and grout and seal grout.
- Install new light fixtures in restrooms.
- Install new lights and ceiling tile in break room area; clean ceiling tile grid and HVAC grilles.
- Demolish existing millwork and appliances, install new.
 - o Millwork includes wall and base cabinets, countertops and island cabinets/countertop.
 - o Relocate and re-install 2 refrigerators
 - Furnish and install: stove, dishwasher, garbage disposal, two microwaves, ice machine
- Install new electrical outlets at countertops.
- Upgrade floor and wall finishes in kitchen/break room area.
- Install fire suppression system over stove.
- See construction drawings for additional scope and information.

JEA may take action to perform work in house and, thereby, reduce Contractor workload. These specifications are not intended to supersede Federal, State, or local regulations to which the Contractor must comply.

PART 1 GENERAL

- 1.1 DEFINITIONS
- 1.2 SUBMITTALS
- 1.3 QUALIFICATIONS
- 1.4 QUALITY ASSURANCE
- 1.5 DELIVERY, STORAGE, AND HANDLING
- 1.6 SAFETY
- 1.7 SECURITY
- 1.8 ENVIRONMENTAL REQUIREMENTS
- 1.9 WARRANTY

PART 2 PARTS AND PRODUCTS

2.1 APPROVAL

PART 3 EXECUTION

- 3.1 GENERAL CONSTRUCTION REQUIREMENTS
- 3.2 PREPARATORY WORK

- 3.3 **PROJECT EXECUTION**
- 3.4 **PROJECT COMPLETION**

PART 1 GENERAL

1.1 **DEFINITIONS**

CERTIFIED GENERAL CONTRACTOR 489.111).	As issued by the State of Florida (FAC
FLORIDA BUILDING CODE later).	Most recently published version (6th Edition or
JEA STANDARDS	JEA Standards are identified on JEA's public website (www.JEA.com).

1.2 SUBMITTALS

Contractor shall deliver the following submittal items in a timely manner to the JEA Contract Administrator for approval.

SUBMITTAL 01 – JEA SAFETY QUALIFICATION

The Contractor shall submit applicable safety documents and receive approval from the JEA Contract Administrator prior to the start of work.

SUBMITTAL 02 - MATERIALS FOR COMPLETION OF RENOVATION

The Contractor shall submit materials for approval to the JEA Contract Administrator.

SUBMITTAL 03 - INVOICING DOCUMENTS

Following the completion of work, the Contractor shall submit invoicing documents in accordance with all applicable sections of this technical specification.

1.3 QUALIFICATIONS

- 1.3.1 Contractor shall possess a valid Certified General Contractor or a Certified Building Contractor License issued by the State of Florida. Contractor shall also possess a current business license issued by the City of Jacksonville/Duval County.
- 1.3.2 Contractor shall meet all minimum qualifications as identified in JEA solicitation documents.
- 1.3.3 Contractor must obtain permission of JEA Contract Administrator prior to subcontracting of work.

1.4 QUALITY ASSURANCE

- 1.4.1 Contractor shall ensure that all work is to JEA standards. It is the contractor's responsibility to review JEA standards for applicable work. Contractor shall be aware of all JEA Standards that apply to the tasks executed by the Contractor. Standards are available to the public on JEA's website, <u>www.JEA.com</u>.
- 1.4.2 On all installations and repairs, the Contactor shall confirm that the installation and/or repairs comply with accepted practice as specified in the most update versions of the Florida Building Code. The Contractor shall apply all applicable ASTM standards.
- 1.4.3 Work that does not conform to expected levels of craftsmanship or the specifications shall be redone at Contractor's expense.
- 1.4.4 The Contractor shall be in possession of a valid General Contractor Certification. Any worker employed by the Contractor, who exhibits inadequate experience and knowledge or is incapable in his/her field, shall be removed from the work site at the discretion of the JEA Contract Administrator.

- 1.4.5 JEA reserves the right to add/delete quantities, as required. Pricing for added quantities will be set at the current bid price. JEA may take action to perform work in house and, thereby, reduce contractor workload.
- 1.4.6 The Contractor shall submit invoicing documents annotated on the contractor's letterhead. The invoice (containing company name and address) shall include JEA purchase order and work order numbers. The Contractor shall include the following information on the invoice: date, location, description of service provided, amount payable, and JSEB forms (if applicable). JEA will not provide payment for deficient invoices that do not contain required information.
- 1.4.7 Contractor's invoiced pricing must agree with the contract bid pricing established in the agreement between the Contractor and JEA.
- 1.4.8 The administrative cost, profit, travel time, and other indirect contractor costs will not be permitted as separate billable costs. These costs must be included in the bid price provided by the Contractor in the bid workbook.
- 1.4.9 JEA Contract Administrators will evaluate vendor performance through a Vendor Performance Scorecard. JEA will email scorecard and request mandatory vendor conference if average score is below a 3. JEA may take any other steps required to resolve the performance deficiency.
- 1.4.10 Contractors shall work in accordance with the JEA Hot Works Permit Program. JEA Security requires at least two (2) days notice for putting fire and sprinkler systems into test, and the JEA Contract Administrator shall be notified prior to initiating.

1.5 DELIVERY, STORAGE, AND HANDLING

- 1.5.1 The Contractor must dispose of all waste generated as a result of the contract at an officially permitted location. Any fees and/or charges associated with this disposal should be included in bid price of work. JEA will not pay additional charges/fees for waste disposal.
- 1.5.2 The Contractor shall prevent access by the public to materials, tools, and equipment during the course of the work.

1.6 SAFETY

- 1.6.1 The Contractor shall become JEA Safety Qualified prior to beginning actual work at JEA. All employees of the Contractor, including Project Managers, who perform work on JEA property, shall be JEA Safety Qualified. Supervisors may be required to have additional training. Site specific training may be required to work at certain job sites (i.e. substations). Contractor is responsible for ensuring ALL personnel have received the appropriate training prior to beginning work.
- 1.6.2 The Contractor shall familiarize all workers with all fire and safety regulations recommended by OSHA and other industry or local governmental groups at the Federal, State, and local levels.
- 1.6.3 Contractor shall maintain a safe work environment at all times.
- 1.6.4 The Contractor shall furnish JEA with material safety data sheets on all chemical products utilized.
- 1.6.5 The Contractor shall also adhere to current JEA Safety and Training regulations at all times.
- 1.6.6 Contract workers are required to wear proper Personal Protective Equipment (PPE). PPE minimums include safety footwear with steel toes, hard hat and safety glasses. Hearing protection is required while operating machinery or equipment (including saws). Ripped jeans, shorts, tennis shoes, sleeveless shirts, and shirts with offensive logos or messages are not permitted.
- 1.6.7 The Contractor shall keep the work area free from accumulation of waste materials or rubbish.

- 1.6.8 The nature of work (cutting, sanding and general work) to be performed may produce heat, smoke, steam, dust or vapors, which may result in the activation of an alarm. To avoid Contractor caused alarms, the Contractor shall notify the JEA Contract Administrator, whom will issue a hot work permit (permit valid for one (1) day only) before any procedure. After such procedures are concluded, Contractor shall notify the JEA Contract Administrator who will inspect, and re-arm the alarm system.
- 1.6.9 If the Contractor's negligence results in a release of a Clean Agent (i.e. FM 200), the Contractor shall be responsible for all costs incurred to refill and restore the fire suppression system.

1.7 SECURITY

- 1.7.1 A JEA issued security badge shall be visible at all times while on JEA property.
- 1.7.2 JEA issued security badges will become deactivated after 90 days of non-activity. It is the Contractor's responsibility to ensure all employees have active badges prior to commencement of work.
- 1.7.3 Contractors shall check in and check out with JEA Security and the JEA Contract Administrator daily.
- 1.7.4 When available, Contractor shall wear uniforms/t-shirts displaying company logo whenever working for JEA.
- 1.7.5 The Contractor shall ensure subcontracted employees obtain background checks, training, and active badge status prior to the start of work.
- 1.7.6 Drawings, sketches, plans, and other items detailing JEA Facilities are to be considered sensitive items. Contractor shall not release associated documents to any 3rd party without the prior consent of JEA.

1.8 ENVIRONMENTAL REQUIREMENTS

- 1.8.1 The Contractor shall conform to environmental regulations of public agencies, including local, state and Federal jurisdiction.
- 1.8.2 Contractor shall be accountable for timely clean-up and remediation associated with any contaminant spills, accidental or otherwise, including, but not limited to diesel fuel, gasoline, lubricants, and cleaning fluids, etc.

1.9 WARRANTY

- 1.9.1 Upon successful completion of work, the Contractor shall extend the manufacturer warranty on all parts to JEA.
- 1.9.2 The Contractor shall warrant workmanship for one (1) calendar year from the substantial completion date.

PART 2 PARTS AND PRODUCTS

2.1 APPROVAL

- 2.1.1 JEA Contract Administrator shall approve all parts and products prior to use by the Contractor.
- 2.1.2 Prior to purchasing, ordering, or installing materials, the Contractor shall submit approval to the JEA Contract Administrator for the following materials: Fire suppression hood; ice machine; millwork; appliances including garbage disposal; sinks & faucets; acoustical ceiling tile; light fixtures; paint; vinyl tile; carpet.
- 2.1.3 Where no material is specified, Contractor shall prepare submittal for the JEA Contract Administrator prior to purchasing or installing materials.
- 2.1.4 Residential grade materials will not be accepted.

PART 3 EXECUTION

3.1 GENERAL CONSTRUCTION REQUIREMENTS

- 3.1.1 Contractor shall provide all labor, tools and equipment needed for the scope of work. Unsafe tools and equipment are never permitted on JEA sites. Hand tools shall be secured with lanyard or safety device to prevent tools from falling off of swing scaffolding.
- 3.1.2 The Contractor shall obtain all permits required by local agencies and pay all fees which may be required for the performance of the work and removal/disposal of hazardous materials. Bid prices should include this cost.
- 3.1.3 Contractor shall verify existing conditions and dimensions prior to starting work. Any discrepancies must be brought to the attention of the JEA Contract Administrator. It is the Contractor's responsibility to remove and/or provide additional items as required to comply with the contract documents.
- 3.1.4 Construction schedules are to be provided by the Contractor and agreed to by all parties before work proceeds. Changes in the schedule shall be coordinated through the JEA Contract Administrator.
- 3.1.5 Contractor shall provide any and all dust curtains, temporary partitions, walk-off mats or any other barricade or process necessary to keep site clean.
- 3.1.6 Job sites are to be kept clean at all times. Contractor shall supply necessary cleaning products. In office environments, site shall be vacuumed at the end of work each day and at the end of the job. In field environments, areas shall be kept broom-clean.
- 3.1.7 All work shall meet or exceed applicable building codes.
- 3.1.8 All doors, lids, and gates shall be locked and secured at all times when unattended.
- 3.1.9 Parking is the responsibility of the Contractor, however, requests may be made to the Contract Administrator to park on JEA property, and shall be granted/denied at the sole discretion of the Contract Administrator.

3.2 PREPARATORY WORK

- 3.2.1 Contractor must receive verbal and/or written agreement from JEA Contract Administrator prior to commencement of construction activities.
- 3.2.2 Contractor must attend all pre construction meetings prior to the commencement of work.
- 3.2.3 Power and Water are NOT to be turned off at any time, except emergencies, without prior notification and approval by the Project Administrator. Any work interfering with building occupants' use of space must be coordinated in advance.
- 3.2.4 Loading, unloading, material delivery, and contractor site access points will be determined by the Project Administrator. Use of other areas is prohibited.
- 3.2.5 Contractors are responsible for furnishing sanitary items (temporary toilets, hand-washing stations, clean drinking water, etc.) for their work force. JEA makes no guarantees that access to existing bathrooms will be granted.

3.3 PROJECT EXECUTION

- 3.3.1 Contractor shall provide JEA weekly progress reports outlining the following:
 - a. Work completed & work remaining
 - b. Delays due to weather and other causes (identify causes)
 - c. Plan to complete work by scheduled date

- 3.3.2 Contractor shall install new fixtures, including toilets, urinals, mirrors, and sinks. Contractor shall also install toilet paper, paper towel, and soap dispensers.
- 3.3.3 Contractor shall demolish existing vinyl composite tiles and base and replace it with epoxy flooring with cove base.
- 3.3.4 Patch and prepare all walls for paint and install new epoxy paint.
- 3.3.5 Install new moisture-resistant acoustical ceiling tile in the new grid, new lighting, new exhaust fan, and connect the lights and fan to the electrical switch by the door.
- 3.3.6 Sand and paint the door, install a new door knob, and install a privacy bolt with closer.
- 3.3.7 The Contractor shall install a new solid core phenolic toilet compartment.
- 3.3.8 The Contractor shall repair all plumbing in the existing shower stall, install new shower head and controls to fit the existing plumbing, as needed. The Contractor shall replace any cracked or missing grout, seal the grout, and steam clean tile both inside and outside of the shower unit. The Contractor shall install new mounted (not tension) shower rod and curtain.
- 3.3.9 The Contractor shall install rector seal in existing floor drain.
- 3.3.10 The Contractor shall install new water heater.
- 3.3.11 The Contractor shall install new split-system air conditioner.
- 3.3.12 The Contractor shall install new supply/waste/vent lines as needed to correct water pressure problems. Install new lines above ceiling wherever possible. Label lines with direction of flow and water temperature.
- 3.3.13 The Contractor shall refurbish and re-install utility sink.
- 3.3.14 The Contractor shall install shelving/storage for janitorial supplies.

3.4 PROJECT COMPLETION

- 3.4.1 Punch lists will be created by the Project Administrator, with input as necessary from the Client. The Project Administrator is the deciding authority on punch list matters. Final punch list items will be completed before final invoice is processed for payment.
- 3.4.2 Final cleaning is to be provided by the Contractor. This includes lay-down areas; loading docks; and stairways, hallways, or other paths of travel used by the contractor during the job. All debris caused by the construction, both interior and exterior, will be removed from the premises and properly disposed of.
- 3.4.3 Contractor is responsible for organizing and presenting to JEA, in a neat and accessible format, all information concerning warranties, key schedules, installation and operation manuals, as-built drawings, wiring diagrams and other documentation before final invoice will be processed.
- 3.4.4 Contractor shall remove all debris, demolished items, and construction waste, including the proper and legal disposing of such. At the completion of the work, the building interior, exterior and landscaping, where affected by Contractor work, shall be restored.
- 3.4.5 Prior to leaving the site, the contractor shall contact JEA Contract Administrator to confirm completion of work activities. Unless otherwise instructed by the JEA Contract Administrator, Contractor must fully exit JEA property following completion of work.

APPENDIX B – BID FORM RFQ 97417 RENOVATION OF BREAKROOM AND RESTROOMS (SOCC DISPATCH AREA)

Submit **<u>Bid Form</u>** along with other required documents in an email to:

Sherea Harper (harpsb@jea.com)

Company	Name:					
Company	's Address					
Phone Nu	mber FAX No:		EMAIL Address:			
[X] Non [] Certif	URITY REQUIREMENTS e required fied Check or Bond <u>%</u> \$	_	TERM OF [X] One- [] Annual F [] Other,	Time I Require	Purchase ments	
[X] Non [] Samj	<u>REQUIREMENTS</u> e required ples required prior to Bid Opening les may be required subsequent to Bid Opening	SECTION 255.05, FLORIDA STATUTES CONTRACT BOND [X] None required [] Bond required \$% of Bid Award				
QUANTITIES [] Quantities indicated are exacting [X] Quantities indicated reflect the approximate quantities to be purchased throughout Contract period and are subject to fluctuation in accordance with actual requirements				INSURANCE REQUIREMENTS [] None required [X] Insurance required		
Quote the Item No.	following materials F.O.B.: Jacksonville, FL ENTER YOUR BID FOR THE FOLLOWIN OR SERVICES				TOTAL BID PRICE	
1 Total Cost for Renovation of Breakroom and Restrooms (SOCC 1 Dispatch Area) (as described in Appendix A – Technical 1 Specifications)		\$	LUMP SUM TOTAL			

_____ I have read and understood the Sunshine Law/Public Records clauses contained within this solicitation. I understand that in the absence of a redacted copy my proposal will be disclosed to the public "as-is".

Bidder's Certification

By submitting this bid, the bidder certifies that the bidder has read and reviewed all of the documents pertaining to this Request For Quote, that the person signing below is an authorized representative of the Company, that the Company is legally authorized to do business in the State of Florida, and that the Company maintains in active status an appropriate contractor's license for the work. The Bidder also certifies that the Bidder complies with all sections (including but not limited to Conflict Of Interest and Ethics) of this Request For Quote.

We have received addenda

Handwritten Signature of Authorized Officer of Firm or Agent

_____ through _____

Printed Name and Title

Date

GENERAL

THE MINIMUM QUALIFICATIONS SHALL BE SUBMITTED ON THIS FORM. IN ORDER TO BE CONSIDERED A QUALIFIED BIDDER BY JEA YOU MUST MEET THE MINIMUM QUALIFICATIONS LISTED BELOW, AND BE ABLE TO PROVIDE ALL THE SERVICES LISTED IN THIS SOLICITATION.

THE BIDDER MUST COMPLETE THE BIDDER INFORMATION SECTION BELOW AND PROVIDE ANY OTHER INFORMATION OR REFERENCE REQUESTED. THE BIDDER MUST ALSO PROVIDE ANY ATTACHMENTS REQUESTED WITH THIS MINIMUM QUALIFICATIONS FORM.

THE BIDDER SHALL SUBMIT ALL OF THE REQUIRED BID FORMS ELECTRONICALLY TO SHEREA HARPER AT <u>HARPSB@JEA.COM</u>.

BIDDER INFORMATION

COMPANY NAME:		

BUSINESS ADDRESS:

CITY, STATE, ZIP	CODE:	
	-	

TELEPHONE:	
I LLLI IIVI L.	

FAX:		

E-MAIL:

PRINT NAME OF AUTHORIZED REPRESENTATIVE:_____

SIGNATURE OF AUTHORIZED REPRESENTATIVE:

TITLE OF AUTHORIZED REPRESENTATIVE:

MINIMUM QUALIFICATIONS:

Bidder shall have the following Minimum Qualifications to be considered eligible to submit a Bid in response to this SOLICITATION.

• Bidder shall possess a valid Certified General Contractor License or a Certified Building Contractor License issued by the State of Florida. Bidder shall also possess a current business license issued by the City of Jacksonville/Duval County.

Certified General Contractor Number:

Certified Building Contractor Number:_____

• Bidder must have completed at least three (3) similar projects in a Commercial setting in the last two (2) years valued at least \$50,000 each. Only one (1) of the three (3) projects can be work performed for JEA. Bidder shall provide valid references for each contract listed.

Please note, any Contractor whose contract with JEA was terminated for default within the last two (2) years shall not be determined to be a responsible Bidder and will not be identified on the bid list.

Please provide the reference verification information requested below pertaining to this contract.

1. REFERENCE
Reference Name
Reference Phone Number
Reference Company Name
Address of Work
Reference E-Mail Address
Dates of Work/\$ Amount
Description of Work
Building name(s) (if applicable)
Physical site address(es)
Number of stories
2. REFERENCE
Reference Name

Reference Phone Number-

Reference Company Name
Address of Work
Reference E-Mail Address
Dates of Work/\$ Amount
Description of Work
Building name(s) (if applicable)
Physical site address(es)
Number of stories

3. REFERENCE

Reference Name
Reference Phone Number
Reference Company Name
Address of Work
Reference E-Mail Address
Dates of Work/\$ Amount
Description of Work

Building name(s) (if applicable)

Physical site address(es)

Number of stories_____

APPENDIX B – LIST OF SUBCONTRACTORS FORM RFQ 97417 RENOVATION OF BREAKROOM AND RESTROOMS (SOCC DISPATCH AREA)

JEA RFQ 97417 requires certain major Subcontractors be listed on this form, unless the work will be self-performed by the Company.

The undersigned understands that failure to submit the required Subcontractor information on this form will result in bid rejection, and the Company agrees to employ the Subcontractors specified below: (Use additional sheets as necessary)

Note: This list of Subcontractors shall not be modified subsequent to bid opening, without a showing of good cause and the written consent of JEA.

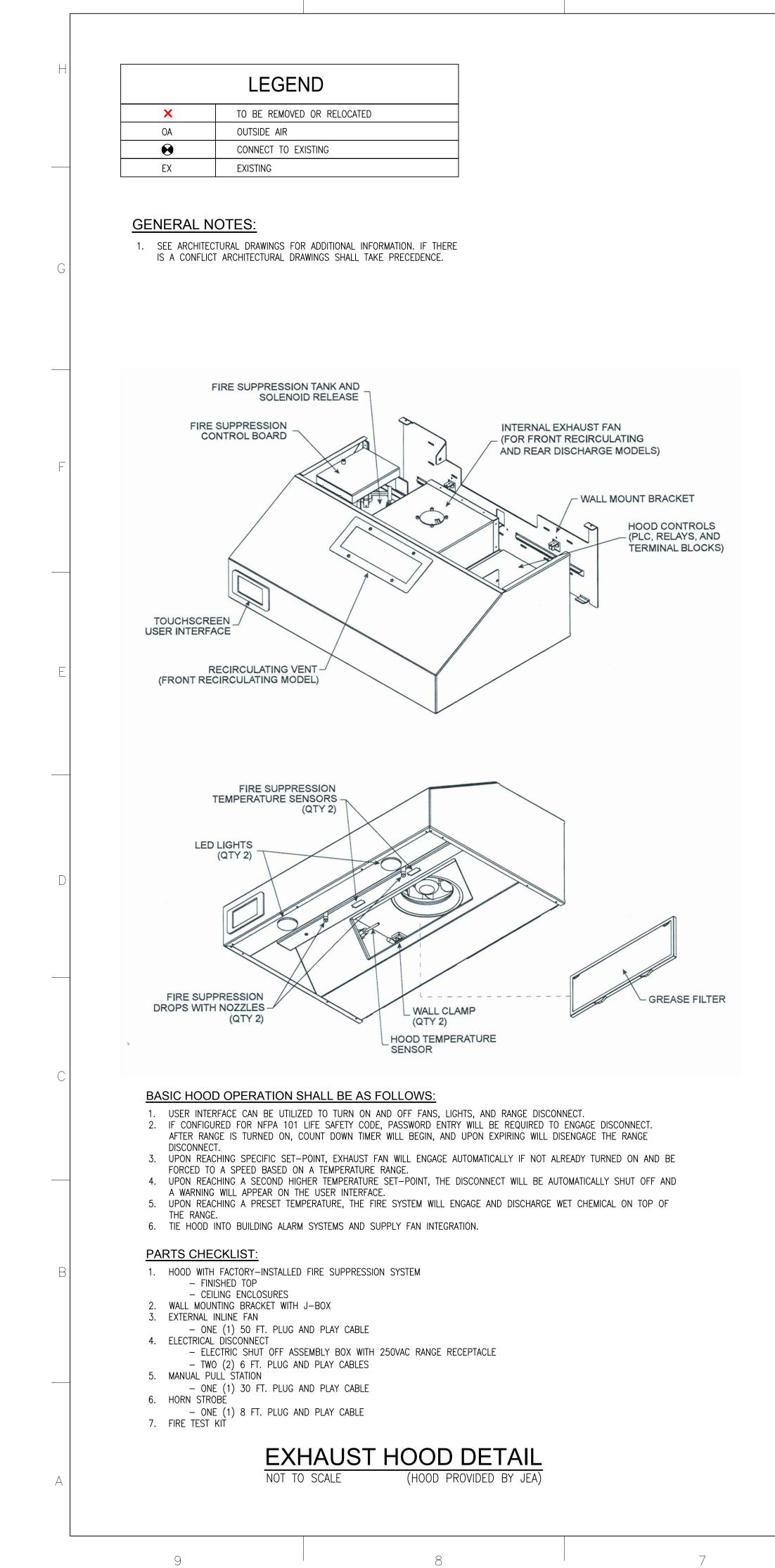
Type of Work	Corporate Name of Subcontractor	Subcontractor Primary Contact Person & Telephone Number	Subcontractor's License Number (if applicable)	Percentage of Work or Dollar Amount

Signed:_____

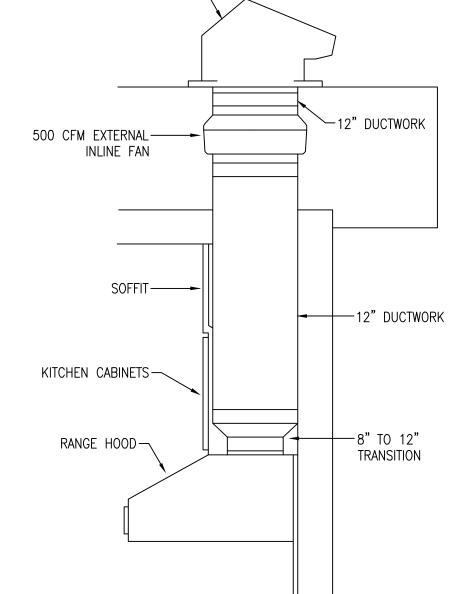
Company:_____

Address:

Date:_____



EXHAUST HOOD DETAIL (EXTERNAL FAN / TOP DISCHARGE with NFPA 101 COMPLAINT 500 CFM INLINE FAN) NOT TO SCALE



ROOF CAP -



REQ 97417 RENOVATION OF BREAK ROOM AND RESTROOMS (SOCC DISPATCH AREA)

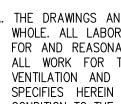
A. MATERIALS AND EQUIPMENT PROPOSED FOR INSTALLATION SHALL BE SUBMITTED 20 WORKING DAYS BEFORE PURCHASING AND INSTALLATION TO THE ARCHITECT FOR APPROVAL. INCLUDE CATALOGS, CUTS, MAINTENANCE DATA, DIAGRAMS, DRAWINGS, SPECIFICATIONS, AND SUCH OTHER DESCRIPTIVE DATA AS MAY BE REQUIRED BY THE ARCHITECT AND/OR ENGINEER. ALL EQUIPMENT SPECIFIED AND/OR SCHEDULED ON DRAWINGS, INCLUDING MATERIALS AND EQUIPMENT IN THIS DOCUMENT, MUST BE SUBMITTED. ALL MATERIALS REQUIRED TO BE SUBMITTED FOR APPROVAL UNDER THIS SECTION SHALL BE SUBMITTED AT ONE TIME. PARTIAL SUBMITTALS WILL BE RETURNED.

B. WHERE EQUIPMENT NAMED AS EQUIVALENT, OR APPROVED EQUAL, ARE PROPOSED FOR USE BY THE CONTRACTOR, HE SHALL BE RESPONSIBLE TO COORDINATE ANY CHANGES WITH ALL TRADES AFFECTED AND BEAR ALL COST OF SUCH CHANGES.

SECTION 15000

PART 1.-GENERAL

1.01. DRAWINGS AND SPECIFICATIONS:



1.02. CODES AND REGULATIONS:

A. ALL WORK PERFORMED UNDER THIS SECTION SHALL CONFORM WITH ALL LOCAL GOVERNING REGULATIONS, AND IS CASE OF CONFLICTING REQUIREMENTS, THE MOST STRINGENT SHALL APPLY. MINIMUM REQUIREMENTS SHALL BE THE FLORIDA PLUMBING AND MECHANICAL CODE AS PUBLISHED BY THE FLORIDA BUILDING CODE ALL ELECTRICALLY OPERATED EQUIPMENT SPECIFIED IN THIS SECTION SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND NATIONAL FIRE PROTECTION ASSOCIATION. FEES AND PERMITS:

B. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES FOR INSPECTIONS, AND CHARGES OF EVERY KIND THAT MAY BE NECESSARY FOR FULLY COMPLETING THE WORK. THE CONTRACTOR SHALL MAKE ALL NECESSARY TESTS REQUIRED BY THE CITY, COUNTY, OR STATE AUTHORITIES, LEGAL REGULATIONS, AND/OR THE ARCHITECT, AND RETURN TO THE WORK, ETC., SIGNED BY THE INSPECTOR IN CHARGE OF EACH PARTICULAR AREA OF WORK.

1.03. RESPONSIBILITY OF CONTRACTOR:

A. THIS CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE SAFETY AND GOOD CONDITION OF ALL WORK AND MATERIALS CONNECTED WITH HIS CONTRACT UNTIL SAME IS ACCEPTED OR OPERATED BY OWNER. HE SHALL USE PROPER PRECAUTION TO PROTECT HIS OWN WORK AND THAT OF OTHERS FROM DAMAGE AND SHALL MAKE GOOD WITHOUT EXPENSE TO THE OWNER ANY DAMAGE CAUSED BY HIMSELF OR HIS EMPLOYEES TO PERSON OR PROPERTY. HE SHALL COOPERATE WITH OTHER CONTRACTORS AND COORDINATE HIS WORK WITH OTHERS.

B. THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED WORK AND FULLY ACQUAINT HIMSELF WITH CONDITIONS ABOUT THE CONSTRUCTION AND LABOR SO HE MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE WORK UNDER THIS CONTRACT. THE FAILURE OF OMISSION OF ANY BIDDER TO RECEIVE OR EXAMINE ANY FORM, INSTRUMENT, ADDENDUM OF OTHER DOCUMENT SHALL IN NO WAY RELIEVE THE ANY BIDDER FROM ANY OBLIGATION WITH RESPECT TO HIS BID OR THE CONTRACT. THE SUBMISSION OF A BID SHALL BE TAKEN AS PRIMA FACIA EVIDENCE OF COMPLIANCE WITH THIS PARAGRAPH AND THAT HE HAS INCLUDED IN HIS PROPOSAL EVERY ITEM OF COST NECESSARY FOR A COMPLETE INSTALLATION OF PLUMBING, HEATING, VENTILATION, AND AIR CONDITIONING OPERATIONS STRICTLY AS PLANNED AND SPECIFIED.

1.04. VERIFICATION OF CONTRACT DRAWINGS:

A. ANY MATERIALS, EQUIPMENT, OR SYSTEMS RELATED TO THIS SECTION AND EXHIBITED ON THE PLUMBING AND HVAC DRAWINGS BUT NOT MENTIONED IN THE SPECIFICATIONS ARE TO BE EXECUTED TO THE INTENT AND MEANING THEREOF. AS IF IT WAS BOTH MENTIONED IN THE SPECIFICATIONS AND STATED ON THE DRAWINGS. WHERE THE CONTRACTOR FINDS THE SPECIFICATIONS AND/OR DRAWINGS TO CONFLICT OR UNCLEAR, THE DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT BEFORE SUBMITTING A BID.

B. THE PLANS INDICATE THE GENERAL ARRANGEMENT OF THE EQUIPMENT. THE LOCATIONS OF PIPING AND DUCTWORK ARE APPROXIMATE FOR CLARITY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY EXACT SIZE AND LOCATION OF EXISTING UTILITIES WHERE NEW CONNECTIONS MUST BE MADE. IF IT SHOULD BECOME NECESSARY TO CHANGE THE LOCATIONS OF ANY WORK DUE TO BUILDING CONSTRUCTION, ETC., THE CONTRACTOR SHALL SECURE WRITTEN APPROVAL FROM THE ARCHITECT AND/OR ENGINEER BEFORE MAKING THE CHANGES. UNDER NO CIRCUMSTANCES SHALL THE SIZES INDICATED ON THE DRAWINGS BE CHANGED WITHOUT SECURING WRITTEN APPROVAL FROM THE ARCHITECT AND/OR ENGINEER.

C. THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW OR INDICATE ALL FITTINGS, OFFSETS, AND ACCESSORIES THAT MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING ALL HIS WORK AS WELL AS THE OPERATIONAL REQUIREMENTS OF EACH SYSTEM, AND SHALL ARRANGE SUCH WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED FOR THE PROPER AND EFFICIENT FUNCTIONING OF EACH SYSTEM. UNNECESSARY OR UNAUTHORIZED OFFSETS WILL NOT BE

PERMITTED. 1.05. WORKMANSHIP:

A. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER AND SHALL BE IN GOOD USABLE CONDITION WHEN COMPLETED. IT IS A REQUIREMENT THAT THE CONTRACTOR PERFORMING SUCH WORK TO GUARANTEE THE WORK TO BE FREE FROM ANY AND ALL DEFECTS IN WORKMANSHIP AND MATERIALS FOR ONE (1) YEAR FROM OWNER'S ACCEPTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OR REPAIR, WITHOUT ADDITIONAL CHARGE, OF ANY AND ALL WORK DONE OR FURNISHED BY OR THROUGH SUCH PERSON THAT SHALL BECOME DEFECTIVE WITHIN ONE (1) YEAR FROM OWNER'S ACCEPTANCE. THE CORRECTION OF SUCH WORK SHALL INCLUDE, WITHOUT ADDITIONAL CHANGE, ALL EXPENSES AND DAMAGES IN CONNECTION WITH SUCH REMOVAL, REPLACEMENT, OR REPAIR OF ANY PART OF THE WORK THAT MAY BE DAMAGED OR DISTURBED THEREBY. ALL WARRANTIES OR GUARANTEES AS TO MATERIALS OR WORKMANSHIP ON OR WITH RESPECT TO THE WORK SHALL BE CONTAINED IN THIS

CONTRACT. 1.06. SUBMITTAL DATA:

C. WHERE THE EQUIPMENT FURNISHED DIFFERS FROM THAT INDICATED IN THE CONTRACT DRAWINGS OR WHERE THE CONTRACTOR CONSIDERS ADDITIONAL DETAIL OR SHOP DRAWINGS ESSENTIAL TO PROPERLY FABRICATE AND INSTALL THESE EQUIPMENT, HE SHALL PREPARE SUCH DRAWINGS AND SUBMIT FOR REVIEW.

MECHANICAL GENERAL PROVISIONS

A. THE DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS A WHOLE. ALL LABOR, MATERIAL, EQUIPMENT AND SERVICE NECESSARY FOR AND REASONABLY INCIDENTAL TO THE PROPER COMPLETION OF ALL WORK FOR THE PLUMBING, HEATING, AIR CONDITIONING AND VENTILATION AND OTHER SYSTEMS AS SHOWN ON DRAWINGS AND SPECIFIES HEREIN SHALL BE PROVIDED COMPLETE IN OPERATIVE CONDITION TO THE APPROVAL OF THE ENGINEER AND LANDLORD.

1.07. PENETRATIONS:

A. ALL PENETRATIONS SHALL BE IN ACCORDANCE TO A RECOGNIZED AUTHORITY, SUCH AS HILTI INC., ETC. AND IN ACCORDANCE TO THE LOCAL CODES AND AUTHORITIES HAVING JURISDICTION. ALL CUTTING AND PATCHING OF BUILDING MATERIALS REQUIRED FOR THE INSTALLATION OF THE PLUMBING AND HVAC WORK SHALL BE DONE IN THIS SECTION. NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT. ALL PATCHING SHALL BE DONE IN A NEAT WORKMANLIKE MANNER TO MATCH ADJACENT SURFACES.

1.08. SUPERVISION AND INSPECTION:

- A. THE CONTRACTOR MUST AT ALL TIMES DURING THE WORKING HOURS ASSIST THE ARCHITECT OR HIS REPRESENTATIVES IN THE INSPECTION OF HIS WORK AND WILL PROVIDE FACILITIES AS ARE NECESSARY FOR THE SAFETY OF THOSE MAKING THE INSPECTION.
- B. THE CONTRACTOR WILL KEEP ON THE JOB UNTIL COMPLETION A COMPETENT FOREMAN VESTED WITH AUTHORITY TO ACT IN THE CAPACITY OF THE CONTRACTOR IN HIS ABSENCE. TRANSACTIONS WITH SAID FOREMAN ARE AS BINDING AS THOSE WITH THE CONTRACTOR.

1.09. QUALITY OF MATERIALS AND EQUIPMENT:

- A. MATERIALS SPECIFICALLY MENTIONED IN THESE PLANS AND SPECIFICATIONS SHALL BE CONSIDERED A STANDARD OF QUALITY AND SHALL NOT BE CONSIDERED RESTRICTIVE. IT IS NOT THE INTENT OF THESE SPECIFICATIONS TO LIMIT MATERIAL AND/OR EQUIPMENT SELECTIONS TO ONE MANUFACTURER; HOWEVER, THE ENGINEER RESERVES THE RIGHT TO BE THE FINAL AND SOLE JUDGE WITH REGARD TO EQUALS.
- B. APPROVAL OF EQUIPMENT IS BASED ON CAPACITIES, QUALITY OF WORKMANSHIP AND COMPONENTS, OR GENERAL AND SPECIAL CONSTRUCTION FEATURES. APPROVAL OF EQUIPMENT DOES NOT RELIEVE THE CONTRACTOR OF COORDINATION RESPONSIBILITY WITH OTHER TRADES. EQUIPMENT SHALL FIT WITHIN THE PHYSICAL SPACE OF EQUIPMENT SHOWN AND HAVE THE SAME GENERAL CONNECTIONS AS THAT SHOWN ON DRAWINGS. PROPER CLEARANCES SHALL BE MAINTAINED FOR SERVICING AND MAINTAINING EQUIPMENT.
- C. WHERE EQUIPMENT SUBMITTED VARIES FROM THE GENERAL ARRANGEMENT OF THAT SPECIFIED, THE CONTRACTOR SHALL SUBMIT DETAILED SHEET METAL AND PIPING SHOP DRAWINGS ALONG WITH EQUIPMENT BROCHURES. SHOP DRAWINGS SHALL SHOW ANY AND ALL PIPING, SHEET METAL, ELECTRICAL, AND STRUCTURAL CHANGES REQUIRED TO FACILITATE CHANGE AND ANY OR ALL ADDITIONAL COSTS INCURRED BY CHANGES WILL BE BORNE BY THE CONTRACTOR.

1.10. START-UP AND SERVICE:

A. THE CONTRACTOR SHALL PUT ALL ITEMS INSTALLED UNDER THIS SECTION INTO OPERATION AND SHALL INSTRUCT THE OWNER IN ALL POINTS REQUIRING SERVICE AND MAINTENANCE. THE CONTRACTOR SHALL ADJUST AND/OR SERVICE REQUIREMENTS TO SAID EQUIPMENT DURING THE FIRST 60 DAYS FOLLOWING OWNER ACCEPTANCE.

1.11. GUARANTEE:

A. ALL MATERIALS PROVIDED AND/OR INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK BY THE OWNER. SHOULD ANY TROUBLE DEVELOP DURING THIS PERIOD DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS TO CORRECT THE TROUBLE WITHOUT ANY COST TO THE OWNER. ANY DEFECTIVE MATERIALS OR INFERIOR WORKMANSHIP NOTICED AT TIME OF INSTALLATION AND/OR DURING THE GUARANTE PERIOD SHALL BE CORRECTED IMMEDIATELY TO THE ENTIRE SATISFACTION OF THE OWNER.

1.12. MAINTENANCE DATA:

- A. OPERATION, MAINTENANCE, SPARE PARTS BOOKLETS SHALL BE PROVIDED FOR ALL ITEMS OF EQUIPMENT REQUIRING MAINTENANCE. SUBMIT BOOKLETS IN A COVERED BINDER.
- 1.13. TEST AND BALANCE:
- A. CONTRACTOR SHALL CONDUCT A TEST AND BALANCE OF THE ENTIRE HVAC SYSTEM IN ACCORDANCE TO THE FLORIDA MODEL ENERGY CODE. T&B CONTRACTOR TO BE NEBB CERTIFIED. SUBMIT 5 COPIES OF REPORT AFTER TESTING AND BALANCE FOR APPROVAL BY ENGINEER. T&B REPORT MUST BE COMPLETED AND APPROVED PRIOR TO MECHANICAL FINAL INSPECTION.

PART 2. MATERIALS

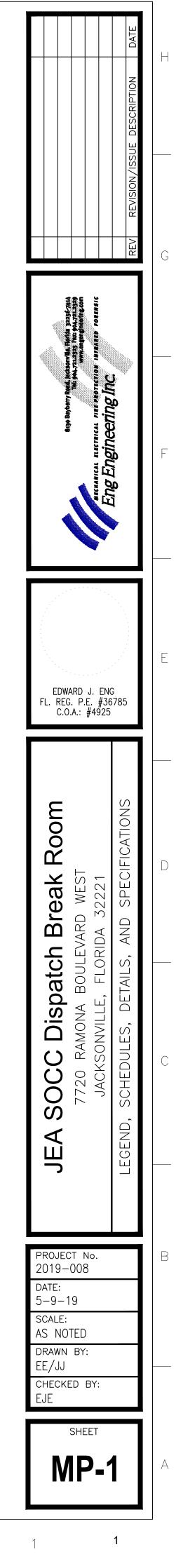
A. EXHAUST DUCTWORK SHALL BE SHEET METAL AND INSTALLED IN ACCORDANCE TO SMACNA.

PART 3. EXECUTION

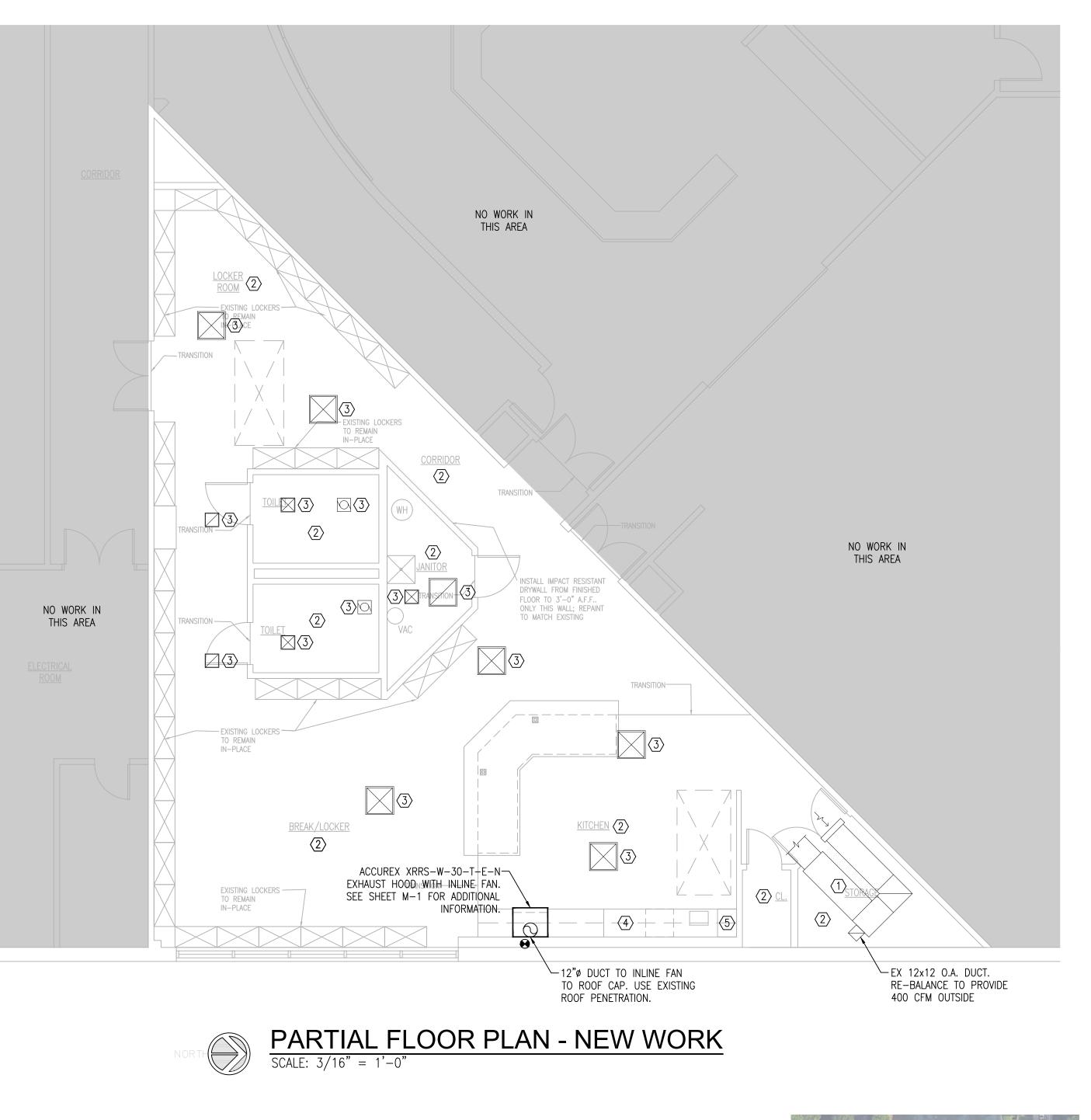
- A. INSTALL ALL EQUIPMENT IN ACCORDANCE TO MANUFACTURERS RECOMMENDATIONS AND/OR INSTALLATION INSTRUCTIONS.
- B. ALL MECHANICAL ITEMS ARE IN WORKING CONDITION. ANY DAMAGE OR IN OPERATION OF EQUIPMENT CASED BY RELOCATION MUST BE REPLACED WITH EXACT DUPLICATE WITH NO COST TO OWNER. REPAIR OF EQUIPMENT IS NOT ACCEPTED.

PART 4. – TEST AND BALANCE

A. TEST, BALANCE AND OPERATION: PROVIDE TEMPORARY FILTERS PRIOR TO OPERATING EQUIPMENT. TEST AND BALANCE ALL AIR SYSTEMS IN ACCORDANCE WITH AABC NATIONAL STANDARDS. PROVIDE 24-HOUR OPERATIONAL TESTS TO SATISFACTION OF OWNER, INSTRUCT OWNER, AND PROVIDE OPERATING, PARTS LIST, AND MAINTENANCE MANUAL. AFTER CONSTRUCTION DUST HAS BEEN REMOVED FROM BUILDING BY TEMPORARY FILTERS, INSTALL NEW FILTERS.







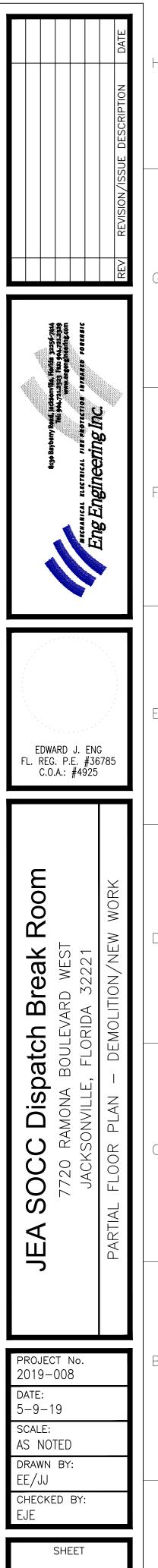


5

KEYED NOTES:

- $\langle 1 \rangle$ existing air handling unit #3 and ductwork to remain.
- $\langle 2 \rangle$ existing hvac to remain in this room (unless noted otherwise).
- $\overline{(3)}$ existing grille, diffuser, or register to remain.
- $\langle 4 \rangle$ EXISTING SINK AND FAUCET TO BE REPLACED. SINK AND FAUCET SELECTED BY OTHERS.
- $\overline{(5)}$ ICE MACHINE: PROVIDE NEW 3/8" WATER LINE. TIE TO NEAREST WATER LINE 3/8" OR LARGER. PROVIDE NEW 3/4" DRAIN. TIE TO ADJACENT SINK DRAINAGE.





3

1

MP-2

SYMBOL	CTRICAL SYMBOL LEGEND	
	HOMERUN TO PANELBOARD WITH CIRCUIT NUMBERS AS INDICATED.	
	TO INDICATE NEW WIRING ABOVE GRADE	
	EXISITNG	
\otimes	EXIT LIGHT ON UNSWITCHED LEG	
₽	EMERGENCY LIGHT ON UNSWITCHED LEG	
ସ ଜ ଅP ⁶⁰ 3R	NON-FUSED DISCONNECT SWITCH: "3P" DENOTES POLE/AMP: DASHED DENOTES FURNISHED WITH EQUIPMENT, 3R DENOTES NEMA RATING	
\$	SINGLE POLE SWITCH	
\$3	3-WAY SWITCH	
\$⊳	SINGLE POLE SWITCH WITH DIMMER	
\$v	VOLUME CONTROL	
\$os	SINGLE POLE SWITCH WITH OCCUPANCY SENSOR, WATTSTOPPER	
\mathcal{A}	EXHAUST FAN	
T	THERMOSTAT. SEE MECHANICAL PLANS	
GFI	INDICATES GROUND FAULT INTERRUPTED RECEPTACLE	
PC	INDICATES OUTLET FOR COMPUTER (NO MORE THAN 4 PER CIRCUIT)	
С	INDICATES CEILING MOUNTED	
WP	WEATHER PROOF	
•	ELECTRICAL RECEPTACLE, 240 VOLT. MOUNT 18" AFF UNLESS OTHERWISE NOTED. DUPLEX ELECTRICAL RECEPTACLE, 120 VOLT. MOUNT 18" AFF UNLESS	
Ф	OTHERWISE NOTED.	
#	QUADRAPLEX ELECTRICAL RECEPTACLE, 120 VOLT. MOUNT 18" AFF UNLESS OTHERWISE NOTED.	
Ŷ	DUPLEX ELECTRICAL RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER 120 VOLT. MOUNT 18" AFF UNLESS OTHERWISE NOTED.	
Ф	ABOVE COUNTER DUPLEX ELECTRICAL RECEPTACLE, 120 VOLT. MOUNT 18" AFF UNLESS OTHERWISE NOTED.	
¢	ABOVE COUNTER DUPLEX ELECTRICAL RECEPTACLE WITH GROUND FAULT CIRCUIT–INTERRUPTER, 120 VOLT. MOUNT 18" AFF UNLESS OTHERWISE NOTED.	
V	TELEPHONE/DATA RECEPTACLE. CONTRACTOR TO PROVIDE SINGLE GANG RING & TWO PULL STRINGS. IN WALLS WITH INSULATION, PROVIDE (1) 1" CONDUIT STUBBED ABOVE WALL. CABLING & COVER PLATES ARE TO BE PROVIDED AND INSTALLED BY TENANT'S TELE/DATA VENDOR.	
\bigtriangledown	COMPUTER DATA RECEPTACLE. CONTRACTOR TO PROVIDE SINGLE GAN RING & TWO PULL STRINGS. IN WALLS WITH INSULATION, PROVIDE (1 1" CONDUIT STUBBED ABOVE WALL. CABLING & COVER PLATES ARE TO BE PROVIDED AND INSTALLED BY TENANT'S TELE/DATA VENDOR.	
æ	DUPLEX ELECTRICAL RECEPTACLE IN FLOOR OR CEILING.	
\bigcirc	DUPLEX ELECTRICAL RECEPTACLE IN FLOOR OR CEILING.	
Ē	SPECIALTY EQUIPMENT	
J	JUNCTION BOX. SIZE PER NEC.	
SPD	SURGE PROTECTION DEVICE, TYPE 1, APT, TE, 2HPFMSC OR APPROVED EQUAL	
Р	FIRE ALARM MANUAL PULL STATION. MOUNT 46" AFF UON. SEE SPECIFICATIONS FOR DEVICE AND WIRING REQUIREMENTS.	
⊠<	FIRE ALARM HORN AND STROBE, MINIMUM 75 CANDELA. MOUNT 80" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER. SEE SPECIFICATIONS FOR DEVICE AND WIRING REQUIREMENTS.	
X	FIRE ALARM STROBE, MINIMUM 75 CANDELA. MOUNT 80" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER. SEE SPECIFICATIONS FOR DEVICE AND WIRING REQUIREMENTS.	

ТҮРЕ	MANUFACTURER	CATALOG NUMBE
А	COLUMBIA	LCAT22-40MLG-ED
В	COLUMBIA	LCAT24-40MLG-ED
С	SELECTED BY OTHERS	SELECTED BY OTHE

EXISTING P.		- - /								/IRE – S/N AIC		
			<u>225</u> A	MPS	S. 🗌] M/	٩N	BRE/	KER	OR ⊠ M.L.O. @ VOLTS	5	
LOCATION: ELECTRICA	L ROC	M	🗌 FLUSH	OF	2	\boxtimes	SUR	FACE	E MO	UNTED TOP OR BOTTOM FED		
FEEDER/WIRE & CONDUIT SIZE	KVA	SERVES	TRIP	ск⁻	- <u>A</u>	B I T	C L	СКТ	TRIP	SERVES	KVA	FEEDER/WIRE & CONDUIT SIZE
		C/O RM 40, 41, 45	20	1	┝╌	$\left \right $	\sim	2	20	C/O RM 35, 37, 42-44		
		C/O RM 29, 31	20	3	ᠯᠬ	$\left \right $		4	20	C/O RM 6, 21-23		
		C/O RM 1-4	20	5	ᠯᠬ		\sim	6	20	C/O RM 12-14		
		C/O RM 33, 34, 36, 38	20	7	ᠯᠭ᠆	$\left \right $		8	20	C/O RM 13, 16-19		
		LTG – VESTIBULE	20	9	ᠯᠬ	$\left \right $		10	20	C/O RM 13, 16-19		
		LTG – WALKWAY	20	11	┣╱╴		\sim	12	20	C/O RM 57, 67		
		C/O – LUNCH ROOM	20	13	ᡯ	$\left \right $	$[\frown]$	14	20	WATER COOLER		
		C/O – VENDING	20	15	$] \sim$	$\left \right $	\sim	16	20	C/O RM 20, 24, 25, 27		
		C/O – VENDING	20	17	ᠯᠬ	$\left \right $	\sim	18	20	C/O – CORRIDOR		
		C/O – VENDING	20	19	ᢇ	+		20	20	RECEP UNDER FLR RADIO DISP RM		
		C/O – VENDING	20		ᢇ		[]	22	20	RECEP UNDER FLR RADIO DISP RM		
		C/O RM 54, 55	20	23	$\[\] \] \]$	\square	\sim	24	20	RECEP UNDER FLR RADIO DISP RM		
		RANGE – RM 52	60		ᢙ	$\left \right $	[]	26	20	RECEP UNDER FLR RADIO DISP RM		
		V	•	27		$\left \right $	\sim	28	20	REFRIG – RM 67		
		GARBAGE DISP – RM 52	20		$] \land$		\sim	30	20	C/O - RM 67		
		REFRIG – RM 52	20]		[]	32	20	MICROWAVE - RM 67		
		REFRIG – WET BAR RM 15	20		$] \sim$				20	EXHAUST FAN – RM 67		
		REFRIG – RM 7	20		$] \sim$			36	20	REFRIG – WET BAR RM 5		
		C/O RM 7	20						20	C/O - RM 40		
		RANGE – RM 7	60			$\left \right $		40		C/O - RM 40		
				41	\vdash		\sim	42	20	C/O - RM 40		
FED FROM:	FUS	ED DISCONNECT TX-3	TOTAL	CO	NNE	CTE	DL	OAD:	- ł	(VA		TOTAL: – KVA

	LIGHTING FIXTURE SCHEDULE						
G NUMBER	DESCRIPTION		LAMPS	VOLTS	MOUNTING	REMARKS	
			Туре	VOLIG		REMARKO	
0MLG-EDU	2 FT. x 2 FT. RECESSED LIGHT FIXTURE	1	LED	120	LAY-IN		
0MLG-EDU	2 FT. x 4 FT. RECESSED LIGHT FIXTURE	1	LED	120	LAY-IN		
BY OTHERS	SURFACE MOUNTED LIGHT FIXTURE	1	LED	120	SURFACE		

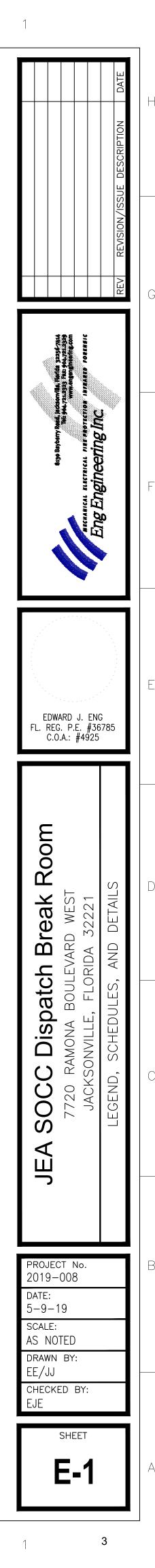
			1											
EXISTING PANEL ULB									/IRE – S/N <u>–</u>					
											VOLTS	5		
LOCATION: ELECTRICA	AL ROC)M		I OF	?	\boxtimes	SUR	FAC	E MOL	JNTED 🗌 TOP OR 🛛 BO ⁻	ITOM FED			
FEEDER/WIRE & CONDUIT SIZE	KVA	SERVES	TRIP	скт		A B (T T I	<u>c</u>	СКТ	TRIP	SERVES		KVA	FEEDER/WIRE & CONDUIT SIZE	
		C/O RM 40, 41, 45	20	1	┺	╉╫┨	\sim	2	20	C/O RM 35, 37, 42-44				
		C/O RM 30, 32	20	3	ᠯᢩᢇ	+++	\sim	4	20	C/O RM 6, 21-23				
		C/O RM 1-4 (COPY RM 6)	20	5	ᠯᢩᢇ	┼┼┝	\sim	6	20	C/O RM 12-14				
		C/O RM 33, 34, 36, 38	20	7	ᠯᢩᢇ	╉╫┨	\sim	8	20	C/O RM 13, 16-19				
		WH – KITCHEN CLOSET	25	9	ጉ[┼┼┤	\sim	10	20	EF-5				
				11	}^	┼┼┝	\sim	12	20	C/O RM 57, 67				
		C/O – LUNCH ROOM	20	13		╉┼┤	\sim	14	20	WATER COOLER				
		C/O – VENDING	20]^	┼┼┤	\sim	16	20	C/O RM 20, 24, 25, 27				
		C/O – VENDING	20	17		┼┼╋	\sim	18	20	C/O – CORRIDOR				
		C/O – VENDING	20	19		╉┼┼	\sim	20	20	C/O - RM 102, 103				
		SPARE	20	21	r	┼┼┤	\sim	22	20	C/O - RM 101, 104				
		C/O - RM 63, 64	20	23	r	+++	\sim	24	20	DISHWASHER – RM 67				
2#12, #12G, 3/4"C		RECEP: MICROWAVE	20	25	r	╉╂╂	\sim	26	20	GARBAGE DISP – RM 67				
		MICROWAVE - RM 52	20	27		┼┼┤	\sim	28	20	RECEP: ICE MACHINE (NEW	<u>IA 5-15P)</u>		2#12, #12G, 3/4"C	
		DISHWASHER – RM 52	20	29	┢	┼┼┢	\sim	30	20	C/O – WET BAR RM 15				
		DISHWASHER – RM 7	20	31		╉┼┤	\sim	32	20	C/O – WET BAR RM 4				
		GARBAGE DISP – RM 7	20		<u>}</u> ^	┼┼┤	\mathbb{T}	34	20	HOOD (WITH SHUNT)			2#12, #12G, 3/4"C	
		EXHAUST FAN – RM 7	20]∕`		_	36						
		PANEL ULC	70		\mathbb{T}	╉╂┨	L	38	20	RECEP: COUNTER			2#12, #12G, EX C	
					$\uparrow\uparrow$	┼┼┤	\mathbb{T}	40	60	RANGE RM 67				
		· · · · · · · · · · · · · · · · · · ·		41	\vdash			42						
FED FROM	: FUSE	ED DISCONNECT TX-4	TOTAL	CO	NNE	CTEI	DL	DAD	: – k	(VA			TOTAL: – KVA	

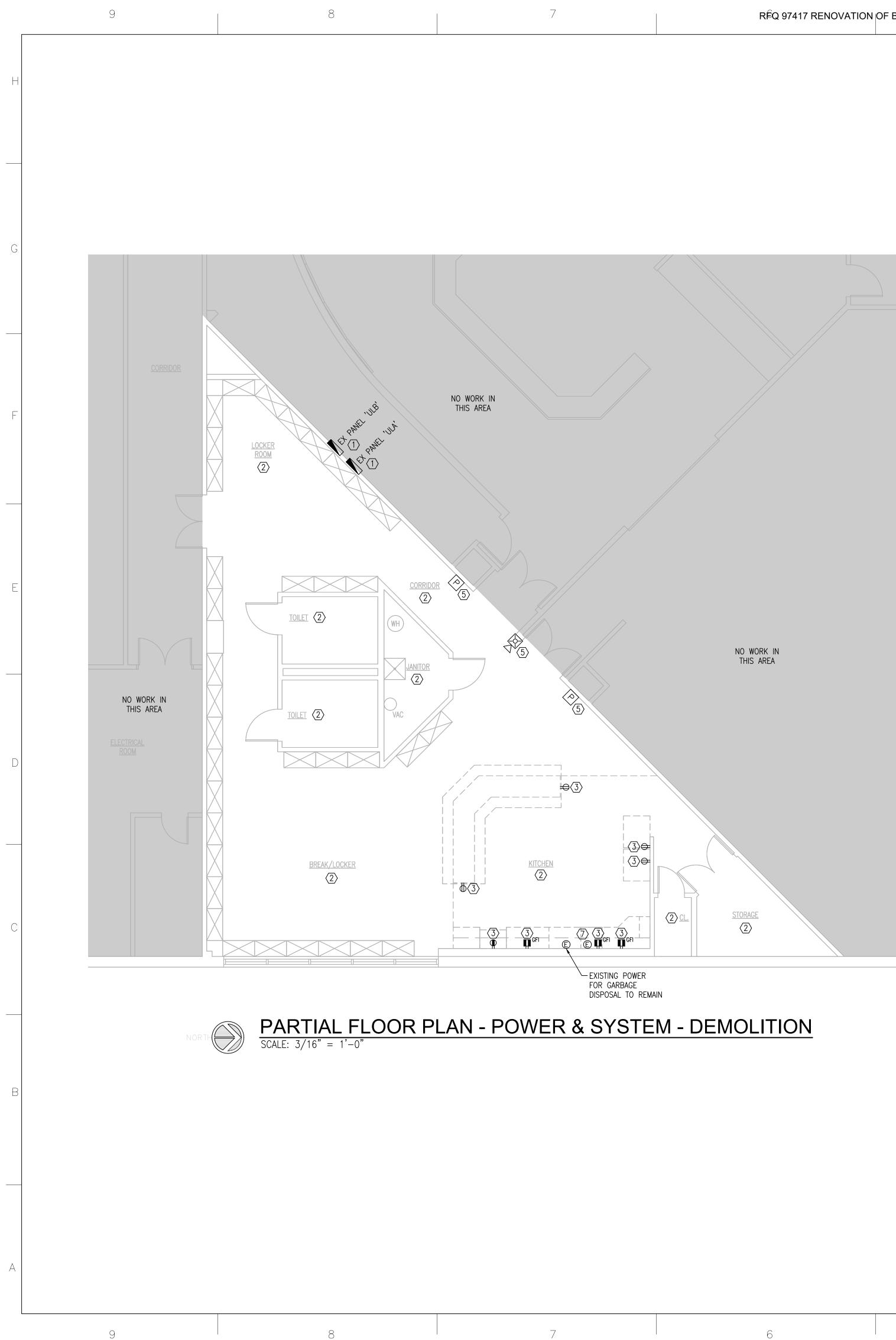
() PROVIDE NEW BREAKER WITH SHUNT FOR HOOD. FIELD VERIFY WITH EQUIPMENT NAMEPLATE DATA AND INSTALLATION MANUAL. CONNECT TO FIRE ALARM CONTROL PANEL.

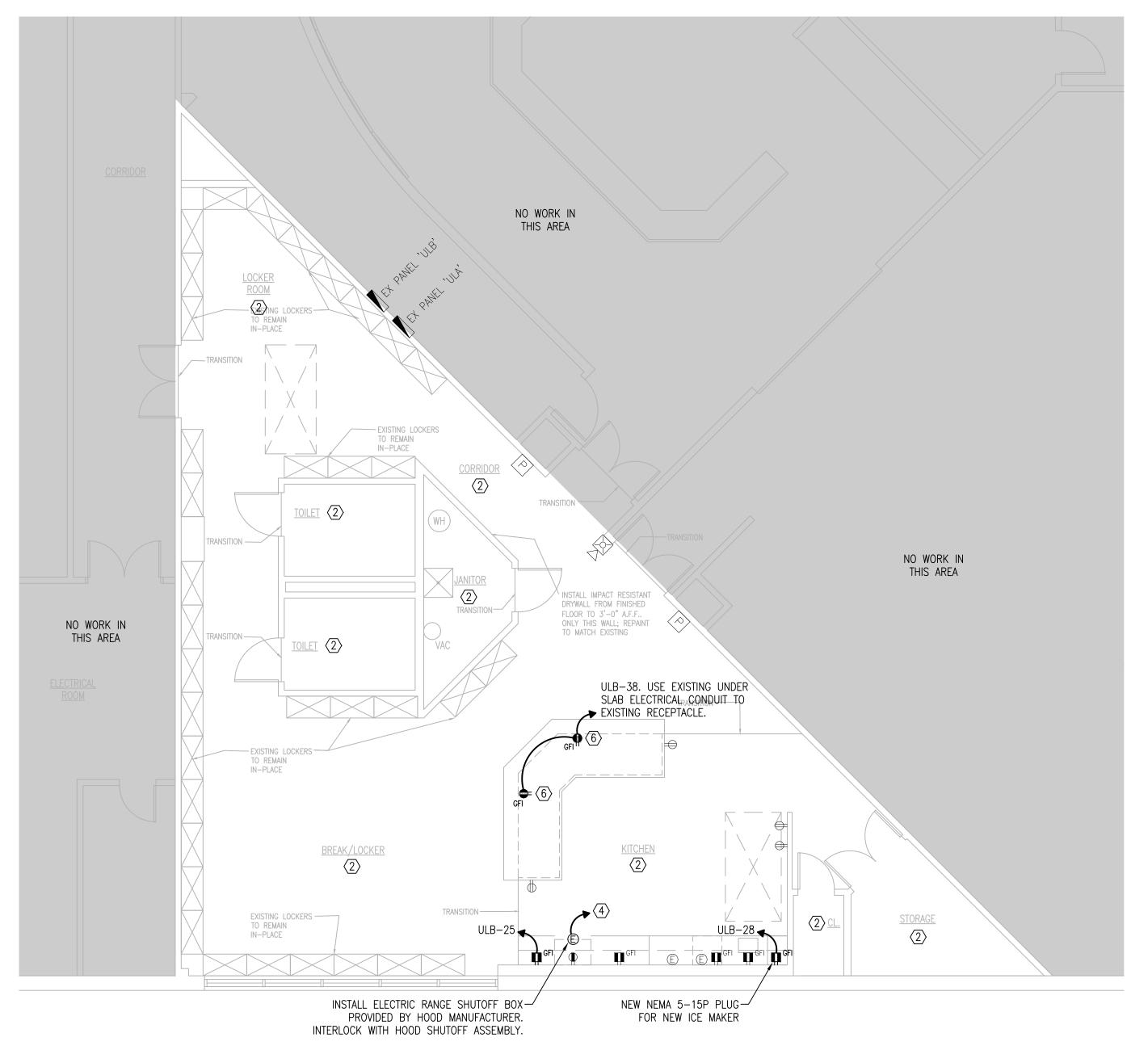
r	
INPUT WATTS	
29	
44	
17	

GENERAL NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. IF THERE IS A CONFLICT ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE.









SCALE: 3/16" = 1'-0"

4

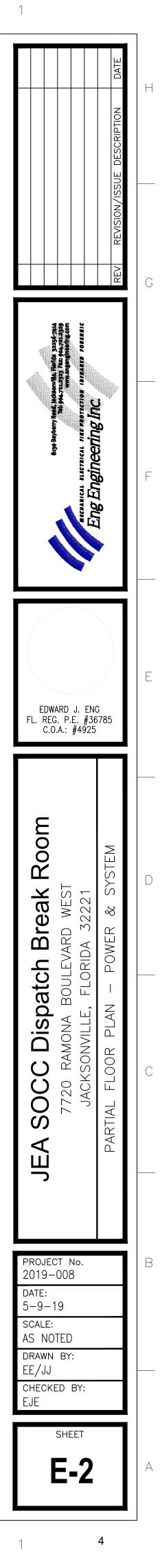
KEYED NOTES:

- $\langle 1 \rangle$ existing power panel to remain.
- (2) EXISTING POWER RECEPTACLES AND CIRCUITING TO REMAIN IN THIS ROOM (UNLESS NOTED OTHERWISE).
- $\overline{(3)}$ EXISTING POWER RECEPTACLE AND CIRCUITING TO REMAIN.
- $\langle 4 \rangle$ EXHAUST HOOD. PROVIDE HOOD AND RANGE SHUTOFF DEVICE. CONNECT TO EXISTING FIRE ALARM CONTROL PANEL. INSTALL PER MANUFACTURER'S INSTALLATION MANUAL.
- $\langle 5 \rangle$ existing fire alarm device to remain.
- $\overline{6}$ NEW RECEPTACLE TO BE LOCATED ON COUNTERTOP. LEW ELECTRIC MODEL PUFP-CT-SS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
- $\langle \overline{7} \rangle$ existing power for dishwasher to be remain.

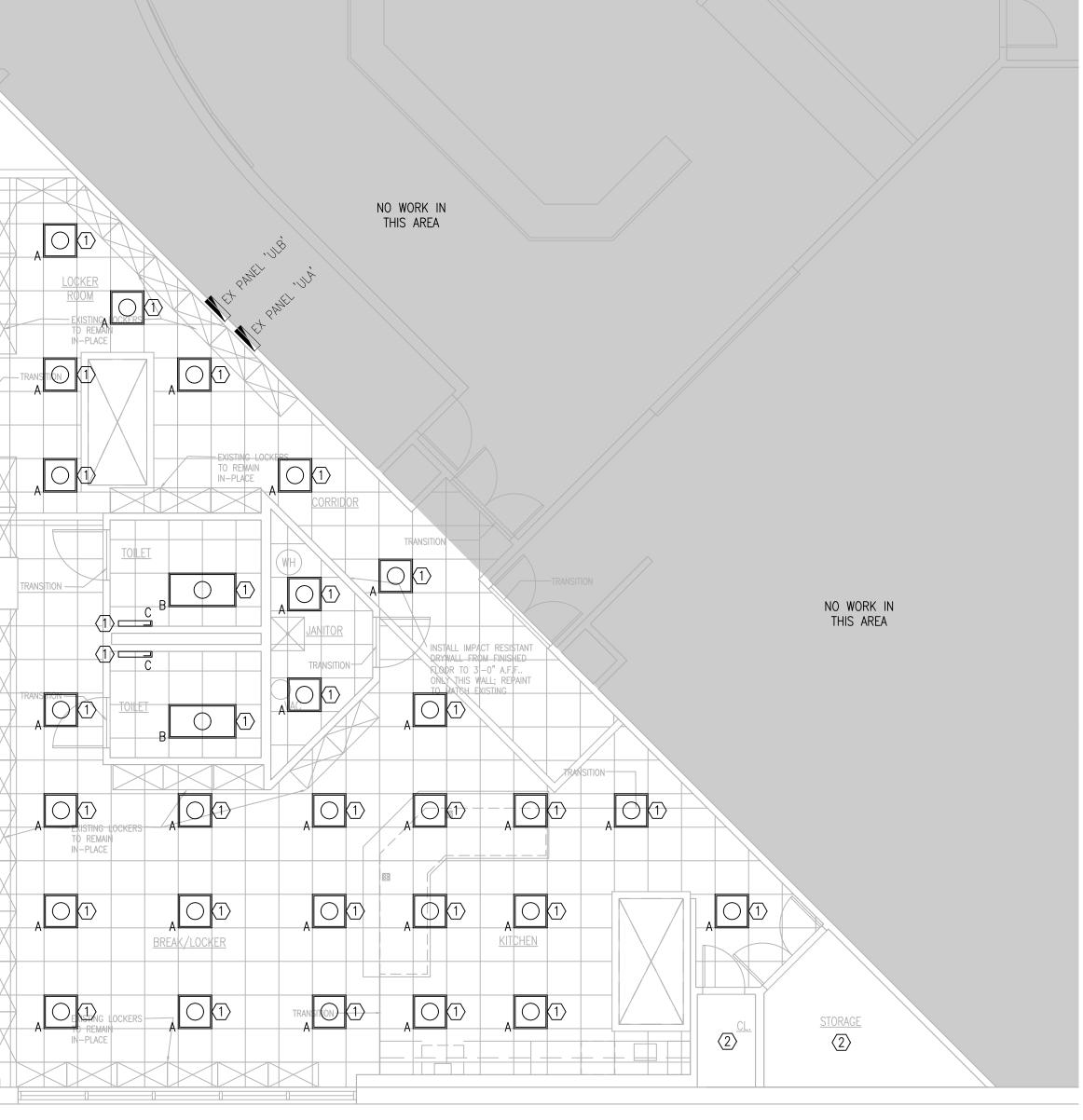
PARTIAL FLOOR PLAN - POWER & SYSTEM - NEW WORK

3





	9		8	7	
Н					
G					
F				CORRIDOR	
					A D D LOCKER ROOM EKISTINCA DOCKERS TD REMAIN IN-PLACE TRANSTION TRANSTION T
E				NO WORK IN THIS AREA	
D				THIS AREA	A C C A C A C A C A C A C A C A C A C A
С					
B					NORTH
A	9		8	7	





PARTIAL FLOOR PLAN - LIGHTING - NEW WORK SCALE: 3/16" = 1'-0"

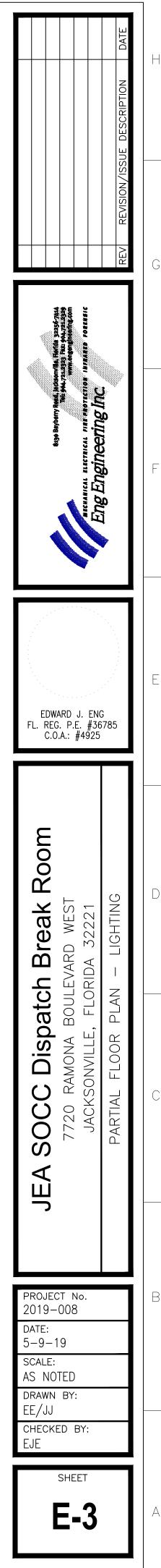
5

4

6

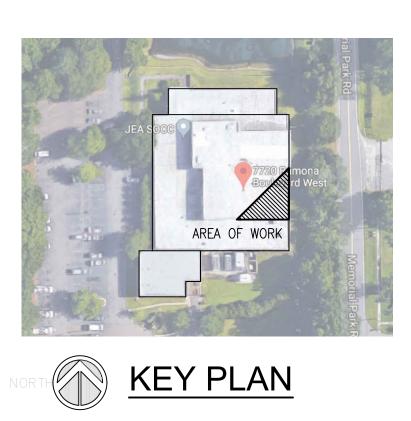
KEYED NOTES:

- $\langle 1 \rangle$ REPLACE EXISTING LIGHT FIXTURE WITH NEW LED LIGHT FIXTURE. EXISTING SWITCHING AND CIRCUITING TO REMAIN. SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- $\langle 2 \rangle$ REPLACE EXISTING LIGHT FIXTURES WITH NEW LED LIGHT FIXTURES IN THIS ROOM. MATCH NUMBER OF FIXTURES. MATCH CURRENT FIXTURE MOUNTING. EXISTING SWITCHING AND CIRCUITING TO REMAIN.



1

5



ΑI

9

PART 1	– GENERAL	PART	3	- EXECUTION
1.1	DESCRIPTION	3.1		OPENING AND SLEEVES FOR EL
	DIVISION 16 OF THE SPECIFICATIONS COVERS ALL ELECTRICAL WORK FOR THE PROJECT. WORK SHALL INCLUDE LABOR, MATERIAL AND ACCESSORIES REQUIRED TO ACCOMPLISH THE WORK AS SPECIFIED AND SHOWN ON THE DRAWINGS.		A.	PROVIDE OPENINGS THROUGH A ROOFS AS REQUIRED FOR ELEC INTEGRITY SHALL BE RESTORED WHERE CONDUITS PASS THROU DESIGN OF SLEEVES SHALL BE
1.2	CODES, PERMITS AND INSPECTIONS	7.0		BE FLASHED INTO AND AROUNE
Α.	INSTALLATIONS SHALL COMPLY WITH ALL LAWS APPLYING TO ELECTRICAL INSTALLATION IN EFFECT; WITH THE REGULATIONS OF THE NATIONAL ELECTRICAL CODE, FLORIDA BUILDING CODE, FLORIDA FIRE PREVENTION CODE, NATIONAL FIRE PROTECTION ASSOCIATION, AND WITH THE REGULATIONS OF THE SERVING UTILITY	3.2		SUPPORTS FOR CONDUIT AND SHALL BE SUPPORTED FROM S METAL DECK AND SLAB ASSEM
4 7	COMPANY. PROVIDE REQUIRED PERMITS.	3.3		FINAL INSPECTION AND TESTING THE WORK SHALL BE THOROUG
1.3	QUALITY ASSURANCE MATERIALS SHALL COMPLY WITH STANDARDS OF UNDERWRITER'S			THE OWNER'S REPRESENTATIVE ENTIRE SYSTEM IS IN PROPER
1.4	LABORATORIES, INC., WHERE STANDARDS HAVE BEEN ESTABLISHED FOR THE PARTICULAR PRODUCT AND THE VARIOUS NEMA, ANSI, ASTM, IEEE, AEIC, IPCEA OR OTHER PUBLICATIONS REFERENCED. SUBMITTALS			ACCORDANCE WITH THE DRAWIN MOTOR WITH ITS CONTROL SHA POSSIBLE UNDER OPERATING (LENGTH OF TIME TO DEMONSTI CAPACITY, SPEED AND SATISFA SWITCHES AND CIRCUIT BREAK
	SUDMITTALS SHOP DRAWINGS AND PRODUCT DATA:			NECESSARILY AT FULL LOAD. D FURNISH THE TEST INSTRUMEN PERFORM COMPLETE TESTING.
	SHOP DRAWINGS AND TRODUCT DATA.		R	COSTS OF TESTS, INCLUDING E
1.	INDICATED UNDER EACH SECTION OF THIS DIVISION. SHOP DRAWINGS SHALL INCLUDE SUFFICIENT INFORMATION TO INDICATE COMPLETE COMPLIANCE WITH SPECIFICATIONS.	C E		OCCASIONED BY DEFECTS AND MEET THE SPECIFICATIONS SHA
2.	PRODUCT DATA SHALL INCLUDE ILLUSTRATIONS, CATALOG SHEETS, INSTALLATION INSTRUCTIONS, DRAWINGS, AND CERTIFICATIONS			<u>ION 16120 — RACEW</u> – general
	AS NECESSARY. EACH SHEET SHALL SHOW MANUFACTURER NAME OR TRADEMARK.	1.1		CONDUIT AND ELECTRICAL ME
В.	RECORD DRAWINGS: PROVIDE ONE COMPLETE SET OF CONTRACT DRAWINGS IN CLEAN, UNDAMAGED CONDITION, INDICATING ALL SIGNIFICANT CHANGES FROM THE WORK AS SHOWN. IN GENERAL, RECORD EVERY SUBSTANTIVE INSTALLATION OF ELECTRICAL WORK WHICH PREVIOUSLY IS EITHER NOT SHOWN OR FIELD MODIFIED.			ALL WIRING, UNLESS OTHERWI INSTALLED IN RACEWAY. MINIM SYSTEM SHALL BE SIZED TO S INSTALLED OR OF SIZE SHOWN
1.5	PROTECTION OF ELECTRICAL EQUIPMENT		o το	FACILITATE PULLING OF CONDU – PRODUCTS
	ELECTRICAL EQUIPMENT SHALL BE PROTECTED FROM THE WEATHER.	2.1		RIGID STEEL CONDUIT
	MANUFACTURER'S RECOMMENDATIONS WITH REGARD TO STORAGE AND PROTECTION SHALL BE FOLLOWED.	Ζ.Ι		SHALL BE MANUFACTURED IN A SPECIFICATIONS FOR RIGID STE
В.	DAMAGED OR DEFECTIVE EQUIPMENT: INSPECT ALL ELECTRICAL EQUIPMENT AND MATERIALS PRIOR TO INSTALLATION. DAMAGED EQUIPMENT AND MATERIALS SHALL NOT BE INSTALLED OR PLACED IN SERVICE UNTIL THE OWNER HAS BEEN NOTIFIED. REPLACE OR REPAIR TO NEW CONDITION AND TEST REPAIR DAMAGED EQUIPMENT IN COMPLIANCE WITH INDUSTRY STANDARDS AT NO ADDITIONAL COST TO THE OWNER. EQUIPMENT REQUIRED FOR THE	2.2		FITTINGS SHALL BE THREADED, STEEL CONDUIT AND SHALL BI C80.4, SPECIFICATIONS FOR F ELECTRICAL METALLIC TUBING. ELECTRIC METALLIC TUBING (EI
1.6	TEST SHALL BE PROVIDED BY THE CONTRACTOR. WORKING CLEARANCES	2.2		SHALL BE MANUFACTURED IN
A.	WORKING CLEARANCES AROUND EQUIPMENT REQUIRING ELECTRICAL SERVICE SHALL COMPLY WITH CODE REQUIREMENTS. SHOULD THERE BE APPARENT VIOLATIONS OF CLEARANCES, NOTIFY THE ARCHITECT-ENGINEER BEFORE PROCEEDING WITH CONNECTION OR		Β.	SPECIFICATIONS FOR ELECTRIC FITTINGS SHALL BE IN ACCORE SPECIFICATIONS AND FITTINGS EMT FITTINGS SHALL BE, RAIN
1.7	PLACEMENT OF EQUIPMENT.			AS APPROPRIATE. POT METAL TYPE FITTINGS SHALL NOT BE
	INSTALLATION STUDIES SHALL BE MADE TO COORDINATE THE	2.3		FLEXIBLE METALLIC CONDUIT
	ELECTRICAL WITH THE WORK OF OTHER TRADES.		Α.	SHALL BE IN COMPLIANCE WIT STEEL CONDUIT.
В.	FOR LOCATIONS WHERE SEVERAL ELEMENTS OF ELECTRICAL OR COMBINED MECHANICAL AND ELECTRICAL WORK MUST BE SEQUENCED AND POSITIONED WITH PRECISION IN ORDER TO FIT INTO THE AVAILABLE SPACE, PREPARE COORDINATION DRAWINGS		Β.	CONNECTORS FOR FLEXIBLE M MALLEABLE IRON.
	AT ACCURATE SCALE SHOWING THE ACTUAL PHYSICAL DIMENSIONS REQUIRED FOR THE INSTALLATION TO ASSURE PROPER	2.4		LIQUID-TIGHT FLEXIBLE METALL
C.	INTEGRATION OF EQUIPMENT WITH BUILDING SYSTEMS. DAMAGE FROM INTERFERENCE CAUSED BY INADEQUATE COORDINATION BY THE CONTRACTOR SHALL BE RECTIFIED AT NO		Α.	JACKETED, LIQUID-TIGHT META GALVANIZED STEEL CORE AND CONDUIT SHALL BE UA OR EF COMPANY, OR APPROVED EQU
	EXTRA COST TO THE OWNER.		Β.	FITTINGS SHALL BE T & B LIC
	- PRODUCTS GENERAL		от т	STEEL OR MALLEABLE IRON OF
	ALL EQUIPMENT OF A PARTICULAR KIND SUCH AS WIRING DEVICES	3.1		- EXECUTION
	AND PANELBOARDS, AND ALL LIGHTING FIXTURES OF THE SAME TYPE, SHALL BE THE PRODUCT OF THE SAME MANUFACTURER.	0.1		CONDUITS SHALL BE INSTALLE MANUFACTURER'S INSTRUCTION
2.2	LABELS SHALL BE PROVIDED FOR EACH MOTOR CONTROLLER, SAFETY SWITCH, RELAY, PANELBOARD, CONTACTOR, TIMER, CONTROL DEVICE, METER AND CIRCUIT BREAKER. LABELS SHALL BE LAMINATED, PHENOLIC STRIPS 1/16-INCH-THICK AND ENGRAVED TO SHOW BLACK LETTERS ON WHITE BACKGROUND NOT LESS THAN 1/4 INCH IN HEIGHT. STRIPS SHALL BE OF SIZE TO PROPERLY FIT MANUFACTURER'S BRACKETS AND LEGIBLE. WHERE BRACKETS ARE NOT PROVIDED, LABELS SHALL BE MOUNTED WITH		Β.	EMT SIZES 2 INCHES AND SM. RACEWAYS UNLESS OTHERWISE BE INSTALLED IN CONCRETE S WHERE CONDUIT IS SUBJECT

7

PENING AND SLEEVES FOR ELECTRICAL WORK

- ROVIDE OPENINGS THROUGH WALLS, PARTITIONS, FLOORS AND OOFS AS REQUIRED FOR ELECTRICAL WORK. FIRE WALL TEGRITY SHALL BE RESTORED AFTER PENETRATION. HERE CONDUITS PASS THROUGH WATERPROOFED FLOOR OR WALLS, ESIGN OF SLEEVES SHALL BE SUCH THAT WATERPROOFING CAN FLASHED INTO AND AROUND THE SLEEVES.
- UPPORTS FOR CONDUIT AND EQUIPMENT
- HALL BE SUPPORTED FROM STRUCTURAL MEMBERS AND NOT FROM ETAL DECK AND SLAB ASSEMBLIES.
- IE WORK SHALL BE THOROUGHLY TESTED IN THE PRESENCE OF HE OWNER'S REPRESENTATIVE TO DEMONSTRATE THAT THE ITIRE SYSTEM IS IN PROPER WORKING ORDER AND IN CCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. EACH OTOR WITH ITS CONTROL SHALL BE RUN AS NEARLY AS DSSIBLE UNDER OPERATING CONDITIONS FOR A SUFFICIENT NGTH OF TIME TO DEMONSTRATE CORRECT ALIGNMENT, WIRING APACITY, SPEED AND SATISFACTORY OPERATION. ALL MAIN NITCHES AND CIRCUIT BREAKERS SHALL BE OPERATED. BUT NOT ECESSARILY AT FULL LOAD. DURING FINAL INSPECTION, URNISH THE TEST INSTRUMENTS AND QUALIFIED PERSONNEL TO
- OSTS OF TESTS, INCLUDING EXPENSES INCIDENT TO RETEST CCASIONED BY DEFECTS AND FAILURES OF THE EQUIPMENT TO EET THE SPECIFICATIONS SHALL BE PAID BY THE CONTRACTOR.
- N 16120 RACEWAYS
- CONDUIT AND ELECTRICAL METALLIC TUBING SYSTEM
- LL WIRING, UNLESS OTHERWISE INDICATED, SHALL BE ISTALLED IN RACEWAY. MINIMUM SIZE SHALL BE 1/2 INCH. RACEWAY YSTEM SHALL BE SIZED TO SUIT NUMBER AND SIZE CONDUCTORS TO BE STALLED OR OF SIZE SHOWN, IF LARGER. SIZE MAY BE INCREASED TO ACILITATE PULLING OF CONDUCTORS.
- HALL BE MANUFACTURED IN ACCORDANCE WITH ANSI C80.1, PECIFICATIONS FOR RIGID STEEL CONDUIT, ZINC COATED.
- TINGS SHALL BE THREADED, GALVANIZED OR SHERADIZED FOR TEEL CONDUIT AND SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI 80.4. SPECIFICATIONS FOR FITTINGS FOR RIGID METAL CONDUIT AND
- HALL BE MANUFACTURED IN ACCORDANCE WITH ANSI C80.3. PECIFICATIONS FOR ELECTRICAL METALLIC TUBING, ZINC COATED.
- TTINGS SHALL BE IN ACCORDANCE WITH ANSI C80.4, PECIFICATIONS AND FITTINGS FOR ELECTRICAL METALLIC TUBING. MT FITTINGS SHALL BE, RAIN AND CONCRETE-TIGHT APPROPRIATE. POT METAL OR DIE CAST TYPE AND "SOCK-ON" YPE FITTINGS SHALL NOT BE USED.
- HALL BE IN COMPLIANCE WITH UL-L STANDARD FOR FLEXIBLE
- ONNECTORS FOR FLEXIBLE METALLIC CONDUIT SHALL BE STEEL OR
- QUID-TIGHT FLEXIBLE METALLIC CONDUIT
- ACKETED, LIQUID-TIGHT METALLIC CONDUIT SHALL HAVE ALVANIZED STEEL CORE AND CONTINUES, LIQUID-TIGHT PVC COVER. ONDUIT SHALL BE UA OR EF SERIES AS MANUFACTURED BY ANACONDA
- ITTINGS SHALL BE T & B LIQUID-TIGHT. NYLON INSULATED. TEEL OR MALLEABLE IRON OR APPROVED EQUAL.
- ONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH
- MT SIZES 2 INCHES AND SMALLER MAY BE USED FOR METALLIC ACEWAYS UNLESS OTHERWISE SPECIFIED OR PROHIBITED. EMT SHALL NOT INSTALLED IN CONCRETE SLABS, BELOW GRADE, OR IN LOCATIONS HERE CONDUIT IS SUBJECT TO MECHANICAL DAMAGE.

- C. FLEXIBLE METALLIC CONDUIT SHALL BE USED ONLY FOR CONNECTION FROM JUNCTION BOX, CONDUIT OR MOTOR CONTROLLERS TO EQUIPMENT WHERE THE LOCATION OF THE CONNECTION IS SUCH THAT IT IS IMPRACTICAL TO MAKE A RIGID CONDUIT CONNECTION AND FROM JUNCTION BOXES TO RECESSED LIGHTING FIXTURES. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR EXTERIOR LOCATIONS AND LOCATIONS SUBJECT TO DAMPNESS.
- D. EXPOSED CONDUIT SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO BUILDING LINES, BEAMS, OR CEILINGS. SYMMETRICAL BENDS OR METAL BOXES SHALL BE PLACED AT CHANGES IN DIRECTION OR TAPS.
- LOCATION AND SIZING OF CONDUIT SLEEVES PASSING THROUGH FLOORS AND WALLS THAT ARE NOT SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SLEEVES, UNLESS OTHERWISE NOTED, SHALL BE RIGID GALVANIZED STEEL EXTENDED 6 INCHES ABOVE FLOOR AND CAPPED. SPACE BETWEEN CONDUITS AND SLEEVES SHALL BE CLOSED WITH DUCTSEAL AT A MINIMUM 2 INCHES DEEP AT TOP AND BOTTOM OF CONDUIT SLEEVE.
- F. CONDUIT PARALLEL TO, OR CROSSING, UNINSULATED HOT WATER PIPES SHALL BE SEPARATED 12 INCHES IF PARALLEL OR 7 INCHES IF CROSSING. WHERE HOT WATER PIPE LINES ARE INSULATED, PARALLEL OR CROSSING CONDUIT SHALL CLEAR THE INSULATED SURFACE BY 2 INCHES. CONDUIT SHALL NOT BE RUN DIRECTLY UNDER COLD WATER LINES AND SHALL BE SEPARATED IN OTHER DIRECTIONS BY AT LEAST 3 INCHES.
- G. CONDUIT SHALL NOT BE SECURED DIRECTLY TO OTHER PIPING. SUPPORT CONDUIT WITH SEPARATE SUPPORTS DIRECTLY FROM BUILDING STRUCTURE.
- H. CONDUIT BUSHINGS, WHERE REQUIRED, SHALL BE MADE OF THE INSULATING TYPE. EMPTY CONDUITS SHALL TERMINATE WITH SMOOTH INSULATING BUSHINGS OR BE CAPPED AS INDICATED.
- RACEWAY SHALL BE SUPPORTED AT INTERVALS OF NOT MORE THAN 8 FEET, WITH PIPE STRAPS, WALL BRACKETS, STRAP HANGERS, CEILING TRAPEZE, TOGGLE BOLTS THROUGH CONCRETE OR TIE BLOCKS, EXPANSION BOLTS IN CONCRETE OR BRICK AND MACHINE SCREWS OR WELDED STUDS ON STEEL WORK. WOODEN PLUGS IN CONCRETE AND MASONRY NOT ACCEPTABLE. RACEWAYS AND PIPE STRAPS SHALL NOT BE WELDED TO STEEL STRUCTURE MEMBERS.
- J. CONDUIT INSTALLATION SHALL FOLLOW LAYOUT SHOWN ON DRAWINGS. LAYOUT IS, HOWEVER, DIAGRAMMATIC ONLY AND WHERE CHANGES ARE NECESSARY DUE TO STRUCTURAL CONDITIONS, INTERFERENCE WITH OTHER APPARATUS OR OTHER CAUSES, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER. OFFSETS IN CONDUCTS ARE NOT INDICATED BUT SHALL BE INSTALLED AS REQUIRED BY THE CONDITIONS.
- K. PULL LINES SHALL BE INSTALLED IN EMPTY RACEWAYS.
- L. VERIFY EXACT STUB UP LOCATION AND TERMINATION REQUIREMENT FOR ALL NECESSARY POWER AND CONTROL FOR ALL ITEMS AND EQUIPMENT BEING SERVED.
- M. FOUR 3/4-INCH SPARE CONDUITS SHALL BE INSTALLED FROM THE TOP OF EACH FLUSH MOUNTED LIGHTING AND POWER PANEL. AND SHALL BE STUBBED INTO SUSPENDED CEILING SPACE (WHERE APPLICABLE).
- N. THERE SHALL BE NO MORE THAN THREE 90 DEGREE BENDS OR 100 FEET BETWEEN BRANCH WIRING PULLING POINTS. FOR ELECTRONIC CABLES OF COAXIAL TYPE AND OTHER SPECIAL CONSTRUCTION, PULL BOXES SHALL BE INSTALLED AFTER EACH TWO 90 DEGREE BENDS OR EQUIVALENT SUMMATION OF BENDING DEGREES. CONDUIT SYSTEM LAYOUT SHALL BE APPROVED AT THE SITE BY THE INSTALLER OF THE CABLES TO BE CONTAINED, WHETHER OR NOT THESE CABLES ARE INSTALLED UNDER THIS CONTRACT. THE INTENT IS TO REQUIRE RACEWAY LAYOUTS AND FITTINGS WHICH WILL PERMIT INSERTION OF THESE SPECIAL CABLES WITHOUT DEGRADATION OF THE ELECTRICAL PROPERTIES REQUIRED OF THESE CABLES. WHERE CONDUITS ARE INSTALLED RENDERING PROPER CABLE INSTALLATION IMPOSSIBLE, CONDUITS SHALL BE REPLACED WITH NEW CONDUITS AT NO ADDITIONAL COST TO THE OWNER.

SECTION 16130 - 600V CABLE, WIRE AND CONNECTIONS

- PART 1 GENERAL
- DESCRIPTION 1.1
 - A. THE WORK INCLUDES FURNISHINGS AND INSTALLING ALL WIRE, CABLE, AND CONNECTORS REQUIRED FOR THE POWER DISTRIBUTION SYSTEMS, LIGHTING, MECHANICAL EQUIPMENT, RECEPTACLES AND MISCELLANEOUS ITEMS REQUIRING ELECTRICAL POWER.
- PART 2 PRODUCTS
- CABLE AND WIRE 2.1

5

- A. EXCEPT AS OTHERWISE INDICATED. PROVIDE 600 VOLT RATING INSULATED COPPER CABLE, COPPER WIRE AND CONNECTORS OF MANUFACTURER'S STANDARD MATERIALS. AS INDICATED BY PUBLISHED PRODUCT INFORMATION, DESIGNED AND CONSTRUCTED AS RECOMMENDED BY THE MANUFACTURER. MEETING IPCEA-NEMA STANDARDS.
- B. UNLESS OTHERWISE NOTED, WIRE NO. 10 AWG AND SMALLER SHALL BE FACTORY COLOR CODED, WITH TYPE THW OR THWN INSULATION. MINIMUM WIRE SIZE SHALL BE NO. 12 AWG EXCEPT CONTROL WIRING MAY BE NO. 14.

Z	
\cup	

C. USE FOLLOWING COLORS FOR CODING: 208/120 VOLT SYSTEM NEUTRAL- WHITE PHASE A- BLACK PHASE B– RED PHASE C- BLUE GROUNDING CONDUCTOR- GREEN GROUNDING CONDUCTOR- GREEN CONNECTOR JOINTS AND CONNECTIONS 2.2 A. CONNECTORS FOR SPLICING OF NO. 10 AWG AND SMALLER CONDUCTORS SHALL BE 3-M SCOTCHLOK, SPRING TYPE PRESSURE CONNECTORS, OR APPROVED EQUAL. B. SPLICES FOR NO. 8 AWG AND LARGER SHALL BE O.Z., TYPE PMX AND PMXC COVER, OR APPROVED EQUAL. C. TERMINATIONS FOR MOTORS WITH NO. 10 AWG OR SMALLER CONDUCTORS SHALL BE A SPRING TYPE PRESSURE CONNECTOR. TERMINATIONS FOR MOTORS REQUIRING NO. 8 AWG AND LARGER TERMINATIONS SHALL Eng Engineering Inc. PROVIDE TAPED CONNECTIONS OF SPADE LUGS OF MOTOR LEADS TO LOPED INPUT CONDUCTORS, USING MACHINE BOLT AND NUT ARRANGEMENT. D. LUG TERMINATIONS FOR NO. 8 AWG AND LARGER CABLE SHALL BE WITH O.Z., TYPE XL LUGS, OR APPROVED EQUAL. E. ELECTRICAL INSULATING TAPE SHALL BE SCOTCH NO. 88 OR 99, OR APPROVED EQUAL. F. ALL WIRE CONNECTIONS TO VIBRATING EQUIPMENT SUCH AS MOTORS AND TRANSFORMERS SHALL BE MADE WITH COPPER CONDUCTORS ONLY. PART 3 - EXECUTION 3.1 WIRE INSTALLATION A. NO WIRE SHALL BE PULLED UNTIL THE CONDUIT SYSTEM IS COMPLETE FROM PULL-POINT TO PULL-POINT AND MAJOR EQUIPMENT TERMINATION CONDUITS HAVE BEEN FIXED IN POSITION. B. BENDING RADIUS OF INSULATED WIRE OR CABLE SHALL NOT BE LESS THAN THE MINIMUM RECOMMENDED BY MANUFACTURER. EDWARD J. ENG C. MAXIMUM PULLING TENSION OF ANY WIRE OR CABLE SHALL NOT L. REG. P.E. #36785 C.O.A.: #4925 EXCEED MANUFACTURER'S RECOMMENDED VALUES. D. SPLICES SHALL NOT BE MADE EXCEPT IN JUNCTION BOXES, OUTLET BOXES. OR OTHER PERMANENTLY ACCESSIBLE LOCATIONS. E. INSTALLED SPLICES SHALL HAVE EQUAL-TO OR BETTER MECHANICAL STRENGTH AND INSULATION THAN THE FACTORY APPLIED INSULATION. moo 3.2 COORDINATION Ň A. BEFORE INSTALLING RACEWAYS AND PULLING WIRE TO ANY MECHANICAL EQUIPMENT, VERIFY ELECTRICAL CHARACTERISTICS WITH Break FINAL SUBMITTAL ON EQUIPMENT TO ASSURE PROPER NUMBER AND AWG OF CONDUCTORS. 3.3 FIELD QUALITY CONTROL atch A. PRIOR TO ENERGIZATION, CHECK CABLE AND WIRE FOR CIRCUIT CONTINUITY, SHORT CIRCUITS AND PROPER PHASING OF CONDUCTORS. SECTION 16135 - GROUNDING - SECONDARY VOLTAGE SYSTEMS sp \Box PART 1 – GENERAL \mathbf{O} 1.1 DESCRIPTION Ŭ O A. THE WORK INCLUDES ALL GROUNDING FOR THE ELECTRICAL SYSTEMS, EXTENDING TO ALL ELECTRICAL ITEMS CONNECTED WITH A Ñ SOURCE OF POWER, INCLUDING ALL GROUNDING REQUIRED BY NEC (NATIONAL ELECTRICAL CODE). GROUNDING SPECIFIED OR SHOWN, WHICH 4 EXCEEDS NEC MINIMUM SHALL BE INSTALLED. Ц PART 2 – PRODUCTS 2.1 GROUNDING CONDUCTORS A. ALL GROUNDING CONDUCTORS SHALL BE COPPER CONDUCTOR MATERIAL ONLY. MATERIALS SHALL BE IN CONFORMITY WITH THOSE SPECIFIED ELSEWHERE HEREIN FOR ELECTRICAL SYSTEMS. CONDUCTORS PROJECT No. WITHIN THE RACEWAY SYSTEMS SHALL HAVE SAME TYPE OF INSULATION AS 2019-008 PHASE CONDUCTORS AND SHALL BE IDENTIFIED AS SPECIFIED HEREIN.EACH DATE: RACEWAY SHALL HAVE GROUNDING CONDUCTOR. 5-9-19 2.1 GROUNDING CONNECTORS AND DEVICES SCALE: AS NOTED A. CONNECTORS AND DEVICES USED IN THE GROUNDING SYSTEMS DRAWN BY: SHALL BE OF COPPER OR BRONZE MATERIALS. EE/JJ CHECKED BY: SEE SHEET E-5 FOR CONTINUATION SHEET **E-4**

		9		8			7	
CONT	TINUE	ED FROM SHEET E-4						
	3	- EXECUTION					3 - EXECUTION	
3.1	A.	INSTALLATION EXCEPT AS OTHERWISE	NDICATED, EACH FEE	DER RACEWAY ON TH	E	3.1 A	SUPPORTING, . BOXES AND S	
		LOAD SIDE OF THE SER CONDUCTOR SIZED AS I IN ACCORDANCE WITH TA	VICE ENTRANCE SHAL NDICATED AND WHER ABLE 250—95 OF TH	L CONTAIN A GROUN E NOT SHOWN SHALL E NEC.	DING BE SIZED		SCREWS OR S AND EXPANSIO HOLLOW MASO STEEL WORK.	ON SHIELDS ONRY UNITS THREADED
	Β.	PROVIDE GREEN INSULAT AND EQUIPMENT OF ALL CONNECTION TO METALL WIRE AND SCREW EQUAL RECEPTACLE GROUND TE	VOLTAGES. IN ADDIT C OUTLET BOXES, A TO RACO NO. 983	ION TO GROUNDING S SUPPLEMENTAL GROU SHALL BE PROVIDED	STRAP JNDING	3.2	PROVIDED WIT ANCHORS MAY MACHINE SCRI	Y BE USED
	C.	GROUNDING FOR LIGHTIN					INSTALLATION	S FOR COM
		1. ALL FIXTURES SHAL CONDUCTOR. INDIVI	L BE PROVIDED WITH DUAL FIXTURE GROUN	H GREEN GROUNDING IDS SHALL BE WITH I		E	EXTENSION RI	ICE, EXCEP [.]
		TO THE FIXTURE U 2. ALL SUSPENDED FI	NIT. XTURES AND THOSE			C	ARCHITECT-EN BOXES BE INS	STALLED BA
		OUTLET BOX TO FIX		E GREEN GROUND CO CTED FIXTURES SHALI			. LOCATE BOXE	KS HAVE BE
	D.	MOTORS AND EQUIPMEN AND EQUIPMENT REQUIR	-				WIRING.	
		GROUNDING CONDUCTOR EXTENDING CONTINUOUSI APPROVED CONNECTORS	Y TO THE SUPPLY S	SOURCE GROUNDING E	BUS WITH	3.3	LOCATION	
<u>SE(</u>	CTIC	<u> 200 16140 - ELE</u>	CTRICAL BOXE	<u>S AND FITTING</u>	S		. THE APPROXIMA	
PART	1	– GENERAL					DRAWINGS. THE SITE. THE RIGH ADDITIONAL COS	T IS RESEF
1.1		DESCRIPTION			NI		SWITCH, CEILING PERMANENTLY I	G OR OTHE
	Α.	FURNISH AND INSTALL C BOXES, INCLUDING FITTIN ELECTRICAL SYSTEM.				<u>SEC1</u>	<u>- 16150</u>	<u> </u>
1.3		QUALITY ASSURANCE				PART	– GENERAL	
	A.	MATERIALS SHALL BE MA IN THE MANUFACTURE O				1.1	DESCRIPTION	
		REQUIRED, WHOSE PROD SERVICE FOR NOT LESS	UCTS HAVE BEEN IN			А.	WIRING DEVICES AND BY REQUIR	
PART	2	- PRODUCTS				1.2	QUALITY ASSURA	NCE
2.1		CONCEALED OUTLET BOX	ES			А.	WIRING DEVICES DEVICES, GENER	
	A.	EXCEPT WHERE CAST TY PROVIDE STANDARD GAL OUTLET FOR LIGHTS, SW DEVICES. BOXES AND CO	/ANIZED STEEL OUTLE ITCHES, WALL RECEP	ET BOXES AT EACH C TACLES, AND SIMILAR			RECEPTACLE SH 5, WIRING DEVIC LABELS.	
		THICKNESS STEEL. BOX SPECIFIC USE, LOCATION ARRANGEMENT OF COND	SHAPE AND DIMENSI , KIND OF FIXTURES UITS CONNECTION TH	ONS SHALL BE ADAPT , NUMBER, SIZE AND	ED TO	1.3 A.	SUBMITTALS SHOP DRAWINGS SWITCHES.	: INCLUDE
	Β.	REQUIRED BY NATIONAL CEILING OUTLET BOXES OCTAGONAL BY 2 INCHE	SHALL BE NOT LESS	THAN 4 INCHES		PART 2	- PRODUCTS	
	C.	SWITCH AND RECEPTACL	E OUTLET BOXES SH			2.1	GENERAL	
		4 INCHES SQUARE BY 1 BOXES IN EXPOSED MAS BOXES SHALL NOT BE I			CE COVERS. THRU-WALL	Α.	PROVIDE FACTOF AND ELECTRICAL HEREINAFTER. W PROPER SELECT	RATING FOR
	D.	RINGS AND COVERS:					FULFILL THE WIF STANDARDS FOR	RING REQUI
		2. PROVIDE 1-INCH-DE FOR OUTLET BOXES	CEALED WIRING BOXE EP PLASTER EXTENS TO BE INSTALLED IN	'S. IONS RING AND COVE I AREAS WHERE CON(R	В.	COLORS OF DEV BY THE ARCHITE	
2.2		WEATHERPROOF AND WA	NSTRUCTION IS COMF	LLIE.		2.2	SWITCHES FOR	
	A.	FOR EXTERIOR LOCATION WATER PROVIDE CORROS APPLICABLE. BOXES SHA	S AND AREAS SUBJE SION—RESISTANT CAS	ST METAL WATERPROO	F BOXES AS	Α.	SWITCHES SHALL VOLTS, AND SHA AS REQUIRED F SPACE.	ALL BE SIN
		SHALL BE GASKETED AN ACCESSORY MATERIALS S	D HAVE THREADED H	IUBS FOR CONDUIT. E	BOX	2.3	RECEPTACLES, S	TANDARD D
2.3		APPLICATION. JUNCTION AND PULL BO	XES			A. 2.4	RECEPTACLES SI RATED FOR THIS MISCELLANEOUS	S SERVICE.
	Α.	PROVIDE GALVANIZED SH WITH SCREW SECURED (SHAPE AND SIZE, TO SU INSTALLATION; WITH WELL SCREWS AND WASHERS	COVERS UNLESS OTH JIT EACH RESPECTIVE DED SEAMS AND EQU	ERWISE NOTED OF TH LOCATION AND IIPPED WITH NUTS, B	OLTS,	Α.	SPECIAL PURPOS CONFORM TO TH DEVICES, SPECIE SHOWN ON MAN FOR EACH SPEC WITH A CORD G STANDARD COLC	HE REQUIRE FIC PURPOS IUFACTURER CIAL PURPO GRIP. SPECI

8

7

NG AND FASTENING

- S SHALL BE FASTENED TO WOOD WITH WOOD YPE NAILS OF EQUAL HOLDING STRENGTH; WITH BOLTS _DS ON CONCRETE OR BRICK; WITH TOGGLE BOLTS ON ITS, AND WITH MACHINE SCREWS OR WELDED STUDS ON ED STUDS DRIVEN IN BY POWDER CHARGE AND R LOCK WASHERS AND NUTS OR NAIL TYPE NYLON ED IN LIEU OF WOOD SCREWS, EXPANSION SHIELDS, OR CEPT WHERE OTHERWISE SPECIFICALLY PROHIBITED.
- CONCEALED WIRING WITH SUITABLE PLASTER COVER, AS REQUIRED.
- CEPT AS SPECIFICALLY APPROVED BY THE IN CASES OF SPECIAL APPLICATION, SHALL OUTLET BACK TO BACK.
- CLOSURES TO CAP UNUSED KNOCKOUT HOLES BEEN REMOVED.
- S TO ENSURE ACCESSIBILITY OF ELECTRIC
- LY TO THE SUBSTRATE UPON WHICH THEY ARE SOLIDLY EMBED BOXES IN CONCRETE OR MASONRY.
- TLET LOCATIONS ARE SHOWN ON THE LOCATIONS SHALL BE DETERMINED AT THE BUILDING ESERVED BY THE OWNER TO CHANGE, WITHOUT THE TO THE OWNER, THE EXACT LOCATION OF ANY THER OUTLET IN ANY SPACE BEFORE IT IS ED.
- <u>/IRING DEVICES</u>
- BE PROVIDED AS INDICATED BY DRAWINGS OF THIS SECTION.
- MEET NEMA STANDARD WD-1, WIRING POSE FOR HEAVY DUTY DEVICES. SPECIAL PURPOSE NFORM TO THE REQUIREMENTS OF NEMA STANDARD WD-ECIFIC PURPOSE. WIRING DEVICES SHALL BEAR UL
- DE CATALOG CUTS OF RECEPTACLES AND
- KAGED WIRING DEVICES, IN TYPE, COLOR G FOR THE SERVICE REQUIRED AND AS INDICATED YPE AND GRADE ARE NOT INDICATED, PROVIDE REQUIRED BY THE EQUIPMENT TO BE SERVED TO EQUIREMENTS, AND TO COMPLY WITH NEC AND NEMA G DEVICES.
- OR GENERAL USE SHALL BE AS DESIGNATED GINEER FOR SPECIFIC AREAS.
- PURPOSES
- EAVY DUTY AC RATED 20 AMPERES, 120/277 SINGLE-POLE, DOUBLE-POLE, THREE-AND-FOUR-WAY SPECIFIC SWITCHING ARRANGEMENTS IN EACH
- DUPLEX
- E THREE-WIRE GROUNDING TYPE, 120 VOLT DE.
- EPTACLES FOR SPECIFIC EQUIPMENT SHALL JIREMENTS OF NEMA STANDARD WD-5, WIRING POSE AND SHALL BE OF THE NEMA STYLE NUMBER RER'S NUMBER INDICATED. PROVIDE A MATCHING CAP RPOSE OUTLET SUPPLIED, EACH CAP BEING EQUIPPED ECIAL PURPOSE OUTLETS SHALL BE MANUFACTURER'S

- 2.5 DEVICE PLATES
- A. PLATES SHALL BE PROVIDED FOR ALL WIRING DEVICES AND TELEPHONE OUTLET BOXES. PLATES SHALL BE OF SUITABLE CONFIGURATION FOR THE NUMBER AND TYPE OF DEVICE FOR WHICH IT IS THE COVER.
- PART 3 EXECUTION
- 3.1 GENERAL
- A. ALL STANDARD RECEPTACLES SHALL BEE GROUNDED BY MEANS OF A GROUND WIRE. STRAP ALONE WILL NOT CONSTITUTE AN ACCEPTABLE GROUND.
- B. DEVICES AND COVER PLATES SHALL BE SECURELY INSTALLED, WITH COVER PLATES IN TRUE VERTICAL OR HORIZONTAL ALIGNMENT, AS APPLICABLE. PLATES SHALL PROPERLY CONTACT SURFACES TO WHICH ATTACHED.
- SECTION 16152 PANELBOARDS, CIRCUIT BREAKER TYPE
- PART 1 GENERAL
- 1.1 DESCRIPTION
 - A. THE WORK INCLUDES FURNISHING AND INSTALLING CIRCUIT BREAKER TYPE PANELBOARDS AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.
- 1.2 QUALITY ASSURANCE
- A. NEMA STANDARD PB1-PANELBOARDS AND NATIONAL ELECTRIC CODE.
- 1.3 SUBMITTALS
- A. SHOP DRAWINGS.
- PART 2 PRODUCTS
- 2.1 PANELBOARDS
 - A. PANELBOARDS SHALL BE PROVIDED AS SCHEDULED. VOLTAGE, BUS CAPACITY, PHASE AND FREQUENCY SHALL BE AS SHOWN. PANELBOARDS SHALL CONFORM TO THE REQUIREMENTS OF NEMA STANDARD PB1-PANELBOARDS AND BEAR UL LABEL.
 - B. PANELBOARD BOX: SHALL BE FABRICATED FROM GALVANIZED SHEET STEEL WITH GAUGES IN ACCORDANCE WITH UNDERWRITER'S STANDARD FOR PANELBOARD BOXES. A CIRCUIT DIRECTORY, NEATLY TYPED SHALL BE PROVIDED ON THE INSIDE DOOR.
 - C. CIRCUIT BREAKERS: CIRCUIT BREAKERS SHALL HAVE QUICK-MAKE AND QUICK-BREAK TOGGLE MECHANISMS, INVERSE-TIME TRIP CHARACTERISTICS, AND SHALL BE SECURED BY BIMETALLIC THERMAL ELEMENT RELEASING THE MECHANISM LATCH.IN ADDITION, AN INSTANTANEOUS MAGNETIC TRIP SHALL BE PROVIDED FOR SHORT CIRCUIT CURRENTS ABOVE THE OVERLOAD RANGE. RATED INTERRUPTING CURRENT FOR CIRCUIT BREAKERS SHALL BE AS SHOWN.
 - D. NEUTRAL BUS: PANELBOARDS DESIGNATED AS THREE PHASE, FOUR WIRE AND SINGLE PHASE, THREE WIRE, SHALL BE PROVIDED WITH AN INSULATED NEUTRAL BUS WITH NUMBERED POINTS FOR CIRCUIT CONNECTIONS.
 - E. GROUND BUS: GROUND BUS SHALL BE PROVIDED IN EACH PANELBOARD BOX. BUS SHALL BE USED FOR ALL PROTECTIVE GROUND CONDUCTOR CONNECTORS.
 - F. LUG SIZES SHALL BE COMPATIBLE WITH CONDUCTOR SIZES.
- PART 3 EXECUTION
- 3.1 MOUNTING
 - A. PANELBOARDS SHALL BE MOUNTED WITH CENTER LINES APPROXIMATELY 5 FEET-6 INCHES ABOVE THE FINISHED FLOOR, EXCEPT THAT THE HIGHEST BREAKER SHALL IN NO CASE BE MORE THAN 6 FEET-6 INCHES ABOVE THE FINISHED FLOOR.
 - B. PANEL DIRECTORY, AS A MINIMUM SHALL INDICATE BREAKER POSITION NUMBER, EQUIPMENT SERVED, ROOM NAME, AND NUMBER.
 - C. ALL CONDUCTORS SHALL HAVE LABEL TAGS AFFIXED PRIOR TO TRIM INSTALLATION.
 - D. ALL BREAKER POSITIONS SHALL BE NUMBERED.
 - E. ALL BREAKER TRIP RATINGS SHALL BE READABLE WITHOUT REMOVING PANEL FRONT COVER.

<u>SECTION 16154 - SAFETY SWITCHES</u>

- PART 1 GENERAL
- 1.1 DESCRIPTION
 - A. THE WORK INCLUDES PROVIDING SAFETY SWITCHES AS INDICATED OR REQUIRED.
- 1.2 SUBMITTALS
 - A. SHOP DRAWING: SHOWING FUSES, NUMBER OF POLES, ENCLOSURES AND RATINGS.

5

\neg
- 5
\cup

1.3		COMPATIBILITY
	Α.	INSURE THAT RATINGS OF INSTALLED SWITCH AND MOTOR ARE COMPATIBLE WHEN SWITCH IS SERVING AS MOTOR-DISCONNECT.
PART	2 -	- PRODUCTS
2.1		MANUFACTURER
	Α.	SWITCHES SHALL BE MANUFACTURED BY GENERAL ELECTRIC, SQUARE D, OR SIEMENS.

2

- 2.2 SAFETY SWITCHES
 - A. SWITCHES SHALL BE HEAVY DUTY, FUSED OR NON-FUSED, WITH RATING AND NUMBER OF POLES AS INDICATED OR REQUIRED.
 - B. ENCLOSURES SHALL BE NEMA 1 INDOOR, NEMA 3R OUTDOOR, EXCEPT AS OTHERWISE INDICATED.
 - C. DOORS TO SAFETY SHALL INTERLOCK SO THAT COVER CANNOT BE OPENED WHEN SWITCH IS CLOSED BUT SHALL BE PROVIDED WITH A DEFEAT MECHANISM TO ALLOW AUTHORIZED PERSONNEL TO OPEN ENCLOSURE WITHOUT OPENING SWITCH.
 - D. SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK TYPE, CONSTRUCTED SO SWITCH BLADES ARE VISIBLE IN "OFF" POSITION WITH DOOR OPEN; EQUIPPED WITH OPERATING HANDLE WHICH IS AN INTEGRAL PART OF THE ENCLOSURE BASE AND WHOSE POSITION IS EASILY RECOGNIZABLE AND IS PADLOCKABLE IN THE "OFF" POSITION. CURRENT-CARRYING PARTS SHALL BE CONSTRUCTED OF HIGH-CONDUCTIVITY COPPER, AND SILVER-TUNGSTEN TYPE SWITCH CONTACTS WITH POSITIVE PRESSURE TYPE REINFORCED FUSE CLIPS IN FUSIBLE SWITCHES.
 - E. EXTERIOR UNITS SHALL HAVE NEMA 3R ENCLOSURES. ENCLOSURES OF TYPES OTHER THAN NEMA 1 FOR INTERIOR LOCATIONS SHALL BE PROVIDED TO SUIT INSTALLATION CONDITIONS.
 - F. PROVIDE FUSES, FOR FUSIBLE SWITCHES, OF CLASS, TYPE AND RATING NEEDED TO MEET ELECTRICAL REQUIREMENTS.
 - G. PROVIDE GROUND BAR. PROVIDE NEUTRAL BAR IF NEUTRAL CONDUCTOR PRESENT.

PART 3 – EXECUTION

- 3.1 INSTALLATION
 - A. SWITCHES SHALL BE PLUMB AND SECURELY MOUNTED.
 - B. INSTALL SAFETY SWITCHES IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, THE APPLICABLE REQUIREMENTS OF NEC AND THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION'S "STANDARD OF INSTALLATION", AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS SERVE THE INTENDED FUNCTION.

2

- C. INSTALL DISCONNECT SWITCHES USED WITH MOTOR-DRIVEN APPLIANCES, AND MOTORS AND CONTROLLERS WITHIN SIGHT OF THE CONTROLLER POSITION UNLESS OTHERWISE INDICATED.
- D. SWITCHES SHALL BE INDEPENDENT OF ANY BUILDING EQUIPMENT SUCH AS AC OR AHU UNITS.

END OF ELECTRICAL SPECIFICATIONS

REV REVISION/ISSUE DESCRIPTION DATE	G
ALSO BAYDONY ROAL, RACKOMILLA, TANILA 2235/744 THE 944-7242323 FM2 944-7242323 FM2 944-7242323 WENNING FOR THE PROFECTION INFERTION ALCOLUTION LITERATION INFERTION INFERTION	F
EDWARD J. ENG FL. REG. P.E. #36785 C.O.A.: #4925	E
OCC Dispatch Break Room 7720 RAMONA BOULEVARD WEST JACKSONVILLE, FLORIDA 32221 ELECTRICAL SPECIFICATIONS	D
JEA SOCC Dispatch Break Roo 7720 RAMONA BOULEVARD WEST JACKSONVILLE, FLORIDA 32221 ELECTRICAL SPECIFICATIONS	C
PROJECT No. 2019–008 DATE: 5–9–19 SCALE: AS NOTED DRAWN BY: EE/JJ CHECKED BY: EJE	Β
SHEET E-5	A

LIFE SAFETY	LEGEND
	= EXISTING PARTITION TO REMAIN
● FEB	FIRE EXTINGUISHER IN BRACKET, EXISTING TO REMAIN IN ORIGINAL LOCATION UNLESS NOTED OTHERWISE
D FA	EXISTING FIREALARM

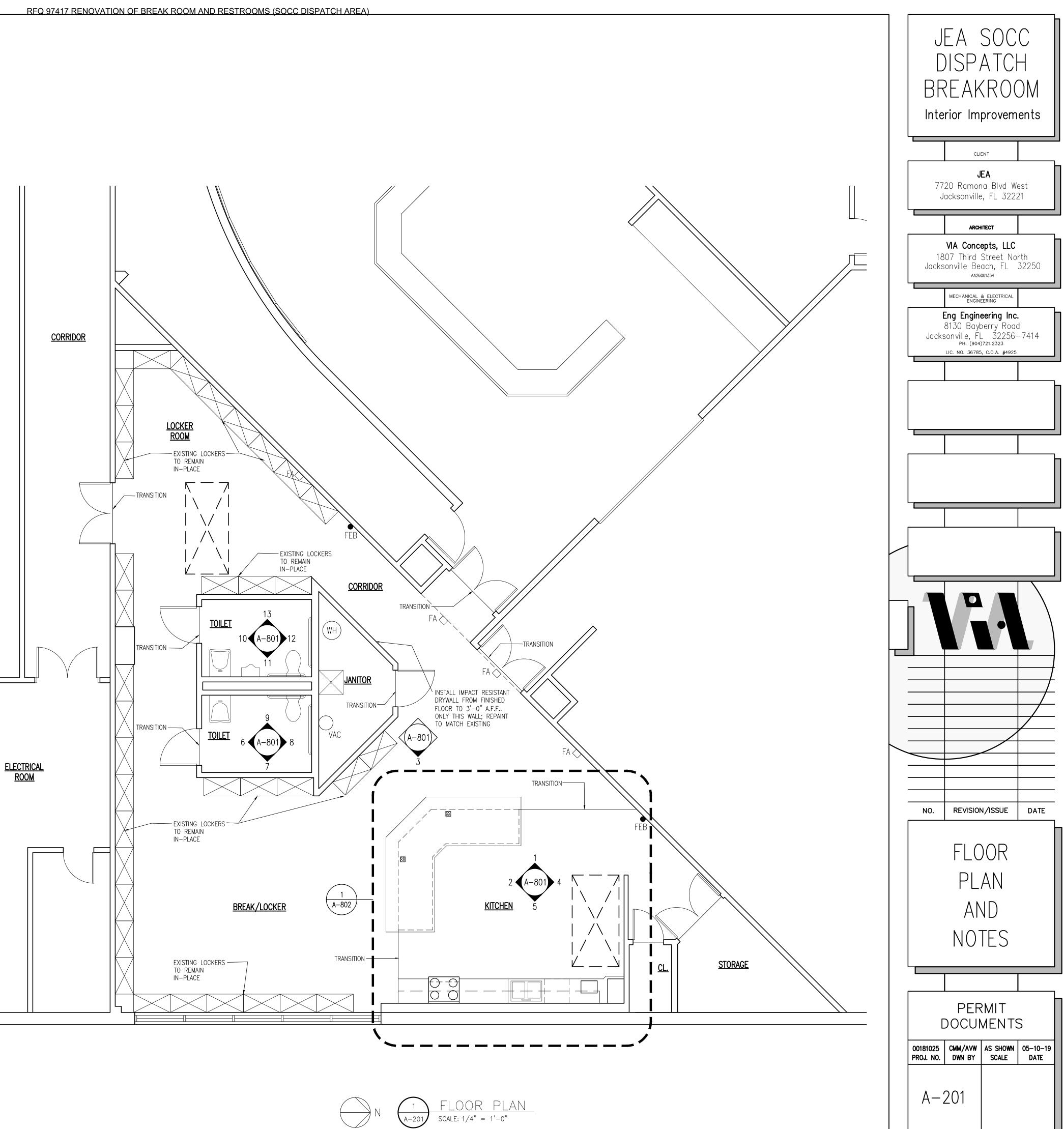
LIFE SAFETY NOTES:

1. RATED ASSEMBLIES ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED

2. NO CHANGES ARE TO BE MADE TO EXISTING EGRESS PATTERNS. ALL CHANGES IN RENOVATION AREA ARE NEW FINISHES AND CABINETRY. ALL WALLS WILL REMAIN THE SAME.

FLOOR PLAN NOTES:

- PREPARE FLOOR AFTER REMOVING EXISTING CARPET TO RECEIVE NEW CARPET
 PREPARE FLOOR AFTER REMOVING EXISTING VINYL TILE IN KITCHEN TO RECEIVE NEW LUXURY VINYL TILE.
- 3. ALL CARPETED AND LUXURY VINYL TILE AREAS TO RECEIVE NEW VINYL BASE.
- PREP AND PRIME DOORS AND FRAMES FOR NEW PAINT. . KITCHEN LAYOUT TO REMAIN THE SAME, REPLACE WITH NEW CABINETS, HARDWARE AND NEW SOLID SURFACE COUNTERTOPS. REFER TO INTERIOR ELEVATIONS SHEET A-801
- 6. NEW ELECTRICAL OUTLETS TO BE PLACED AT THE TOP OF THE CABINETS ON ISLAND IN KITCHEN. REFER TO INTERIOR ELEVATIONS SHEET A-801 AND ENLARGED PLAN ON
- A-802 7. NEW FIRE SUPPRESSION HOOD TO REPLACE EXISTING HOOD; REFER TO MECHANICAL.
- 8. NEW SINK, FAUCET AND $\frac{3}{4}$ HP GARBAGE DISPOSAL; REFER TO PLUMBING 9. CONTRACTOR TO PROVIDE WATER SUPPLY LINES FOR ICE MACHINE. SEE SHEET A-801 FOR EQUIPMENT LOCATIONS.
- 10. CONTRACTOR TO INSPECT CEILING GRID FOR DAMAGE AND REPAIR/REPLACE AS NEEDED.
- 11. CONTRACTOR TO INSPECT EXISTING HVAC DIFFUSERS FOR DAMAGE AND REPLACE AS NEEDED. REFER TO MECHANICAL. UNDAMAGED DIFFUSERS WHICH WILL REMAIN SHALL BE REMOVED, CLEANED THOROUGHLY, PAINTED AS NECESSARY AND RE-INSTALLED.
- 12. CONTRACTOR TO INSPECT CONDITION OF GYPSUM BOARD WALLS. CONTRACTOR TO PATCH AND REPAIR ANY DAMAGED AREAS AND/OR HOLES IN GYPSUM BOARD, SMOOTH
- AREA AND PREPARE TO RECEIVE NEW PAINT FINISH. 13. AFTER ALL EXISTING WALLPAPER IS REMOVED PATCH, PREP AND PRIME WALLS FOR PAINTING.
- 14. ALL EXISTING TILE IN RESTROOMS TO REMAIN, SHALL BE STEAMED CLEANED AND READY FOR PROTECTIVE FINISH.
- 15. PATCH AND REPAIR HOLES IN TILED AREAS IN RESTROOMS.
- 16. CLEAN AND POLISH GRAB BARS IN RESTROOMS. 17. CLEAN AND POLISH ALL REMAINING FIXTURES IN RESTROOMS CONFIRM ADA STANDARD CODE MOUNTING HEIGHTS. MOVE TO ACCURATE PLACEMENT IF NOT IN THE PROPER
- POSITION FOR ADA STANDARD CODE. 18. REMOVE ALL EXISTING WALL BUMPERS, PATCH AND REPAIR FOR PAINTING. 19. CONTRACTOR TO CONFIRM ALL NEW AND/OR EXISTING FIXTURES IN RESTROOMS ARE
- TO THE LATEST FLORIDA BUILDING ADA CODES. PLEASE REFER TO SHEET G-001





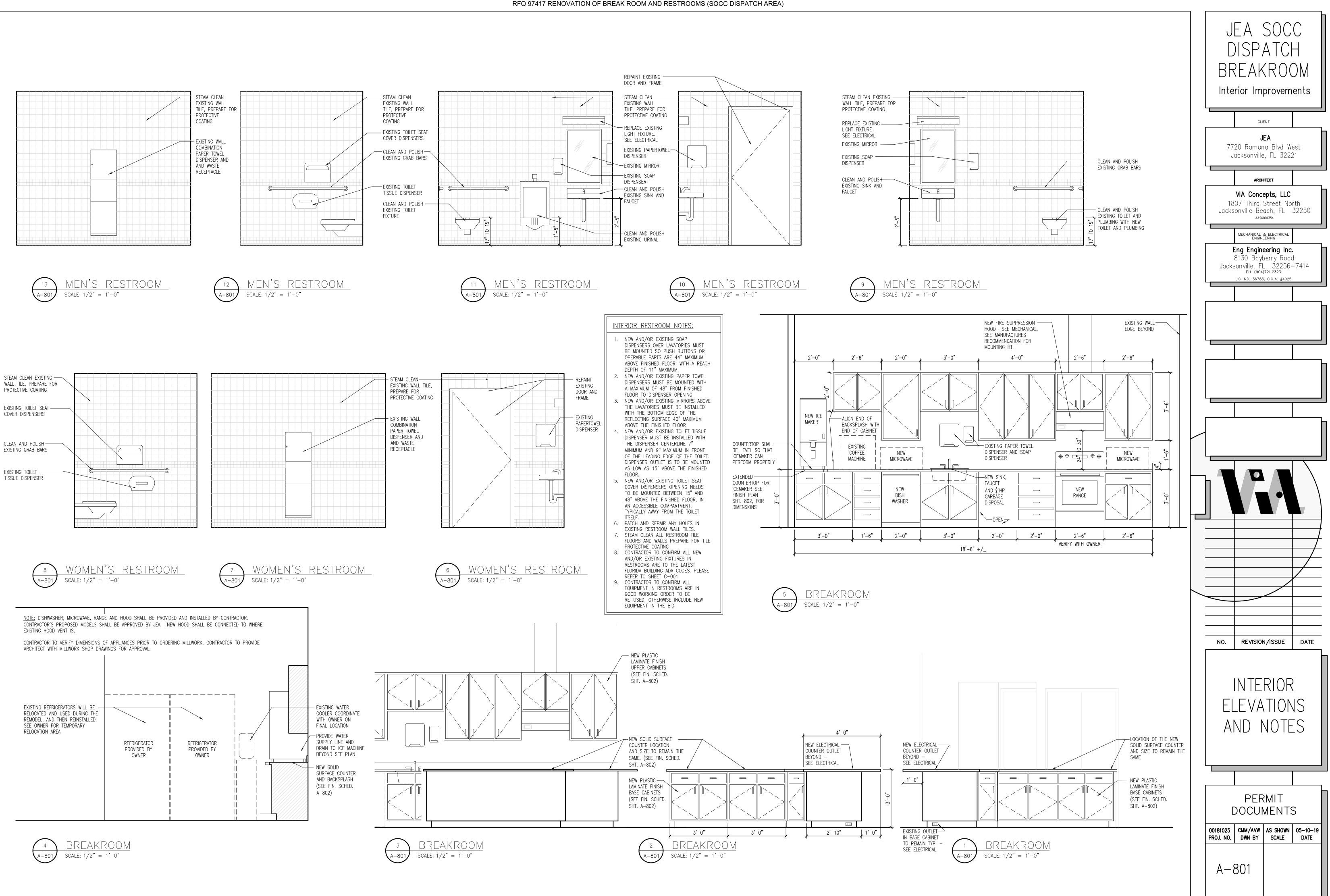
REFLECTED CEILING	PLAN LEGEND:		
	EXISTING GYP BD CEILING OR SOFFIT		
	EXISTING LAY-IN CEILING GRID		
	NEW 2X2 CEILING TILE ARMSTRONG "CORTEGA" COLOR "WHITE"		
	NEW RECESSED 2X2 LED LIGHT FIXTURE "COLUMBIA" LCAT22-40MLG-EDU		
	NEW RECESSED 2X4 LED LIGHT FIXTURE "COLUMBIA" LCAT24—40MLG—EDU		
	NEW SURFACE MOUNTED LED LIGHT FIXTURE		
*	EXISTING CEILING MOUNTED SPRINKLER		
CAM.	EXISTING CEILING MOUNTED CAMERA		
$\bigotimes \overrightarrow{\bigotimes}$	EXISTING EXIT SIGN (WITH DIRECTION)		
	EXISTING HVAC SUPPLY DIFFUSER – SEE MECHANICAL		
	EXISTING HVAC RETURN, TRANSFER, OR EXHAUST DIFFUSER – SEE MECHANICAL		

NOTES:

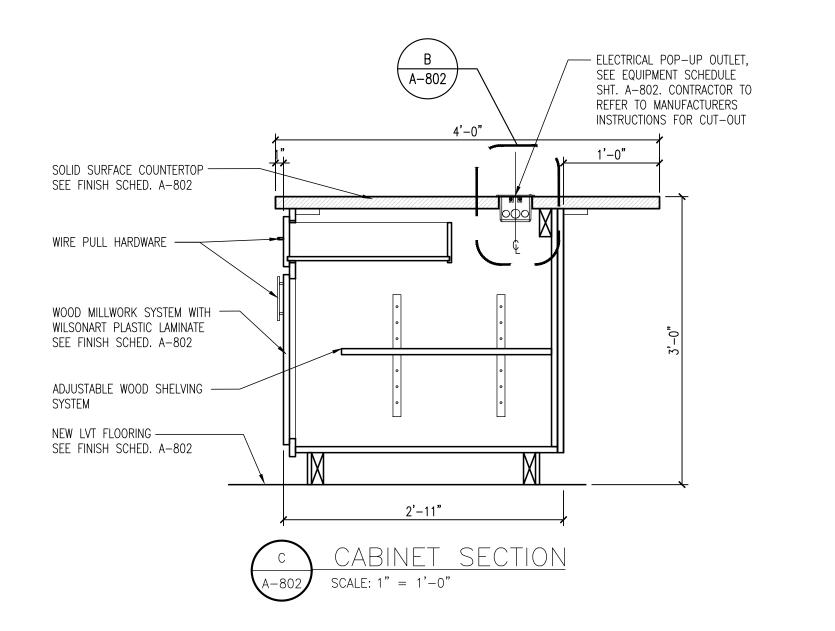
REMOVE ALL EXISTING ACOUSTICAL CEILING TILES AND REPLACE WITH ALL NEW ACOUSTICAL CEILING TILES IN ALLOCATED AREAS. THE EXISTING CEILING GRID IS TO REMAIN. REPAIR ANY CEILING GRID DAMAGES AND CLEAN ALL CEILING GRID AREAS.

CONTRACTOR TO INSPECT LOUVERS/METAL PANELS ON WALLS AND CEILING AND REPLACE THOSE THAT ARE DAMAGED OR DISCOLORED. COORDINATE WITH ARCHITECT AND OWNER.





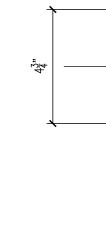
EQUIPMENT SCHEDULE										
	QTY.	EQUIPMENT NAME	MAKE	MODEL #	SIZE	OTHER REQUIREMENT				
	1	Countertop Nugget ICE Maker & Dispenser	MANITOWOC	RNS-20AT	42"Hx16.25"Wx24"D	WILL REQUIRE A WATER SUPPLY LINE AND DRAIN. COORDINATE WITH MEP SHEETS.				
						EXTENDED COUNTERTOP FOR FU DEPTH OF MACHINE AND ACCESSORIES. SEE 1-802 FOR SIZE.				
						REQUIRES A LEVEL COUNTERTOF SURFACE TO PERFORM PROPERI				
	1	EXISTING COFFEE MAKER	BUNN	-	16W"x8"Dx21H"	_				
	2	COUNTERTOP MICROWAVE	REFER TO OWNER	-	_	-				
	2	REFRIGERATOR	REFER TO OWNER	-	-	EXISTING REFRIGERATORS WILL BE RELOCATED AND USED DURING THE REMODEL, AND THEN REINSTALLED. SEE OWNER FOR TEMPORARY RELOCATION AREA.				
	1	DISHWASHER	REFER TO OWNER	-	_	Coordinate with mep shee				
	1	EXHAUST HOOD	refer to owner	-	30" WIDE	Coordinate with mep shee				
	1	STOVE	refer to owner	-	-	coordinate with mep shee				
	1	Countertop Pop-up Electrical outlet box	Lew electical	PUFP-CT	4-7/8"D x 4-11/16"W X 3-5/16"H	CONFIRM WITH OWNER FOR CHOICE OF FINISH AND RECESSED MOUNTED OR SURFACE MOUNTED COORDINATE WITH ELECTRICAL				



- SS COUNTERTOP-CABINET BELOW -COUNTER

Α

A-802



4-802

ROOM FINIS	SH SC	CHEDU	JLE -	- S0	CC D	ISPA	ICH E	BREAK	<rol>ROO</rol>	M			
SPACE		FLOOR					WA	ALLS				CEILING	OTHER REQUIREMENTS
	MAT.	FINISH	BASE	NORTH		SOU	TH	EAS	Т	WEST			
	W/~\ .	TINIST	DASL	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.		
KITCHEN	LVT	-	VB	GWB	PT	GWB	PT	GWB	PT	GWB	PT	NOTE #2	NOTE #3
BREAKROOM/LOCKER	CPT	-	VB	GWB	PT	GWB	PT	GWB	PT	GWB	PT	NOTE #2	NOTE #3
WOMENS RESTROOM	EXIST	-	EXIST	EXIST	-	EXIST	-	EXIST	-	EXIST	-	NOTE #2	NOTE #4
MENS RESTROOM	EXIST	-	EXIST	EXIST	-	EXIST	-	EXIST	-	EXIST	-	NOTE #2	NOTE #4
JANITOR	EXIST	-	EXIST	GWB	PT	GWB	PT	GWB	PT	GWB	PT	NOTE #2	NOTE #3
LOCKER ROOM	CPT	-	VB	GWB	PT	GWB	PT	GWB	PT	GWB	PT	NOTE #2	NOTE #3
CORRIDOR	CPT	-	VB	GWB	PT	GWB	PT	GWB	PT	GWB	PT	NOTE #2	NOTE #3

MATERIAL SECLECTIONS AND ABBREVIATIONS:

EXIST - EXISTING FLOOR TO REMAIN GWB - GYPSUM WALL BOARD

- CPT CARPET: PHILADELPHIA COMMERCIAL COLLECTION BY SHAW, "CITY HALL" #80402
- LVT LUXURY VINYL PLANK TILE: ARMSTRONG WEATHERED ARBOR DIAMOND 10 IN "LIGHT DOE" #N235
- PT PAINT: "ACCESSIBLE BEIGE", SHERWIN WILLIAMS, COLOR #7036 VB VINYL BASE: JOHNSONITE "MOON ROCK" #29

PL - PLASTIC LAMINATE: WILSONART "DOVE GREY" #D92-60

SS - SOLID SURFACE COUNTERTOP - COLOR TBD BY OWNER

ROOM FINISH SCHEDULE GENERAL NOTES: 1. CONTRACTOR SHALL SUBMIT COLOR & MATERIAL SAMPLES TO OWNER & ARCHITECT FOR FINAL

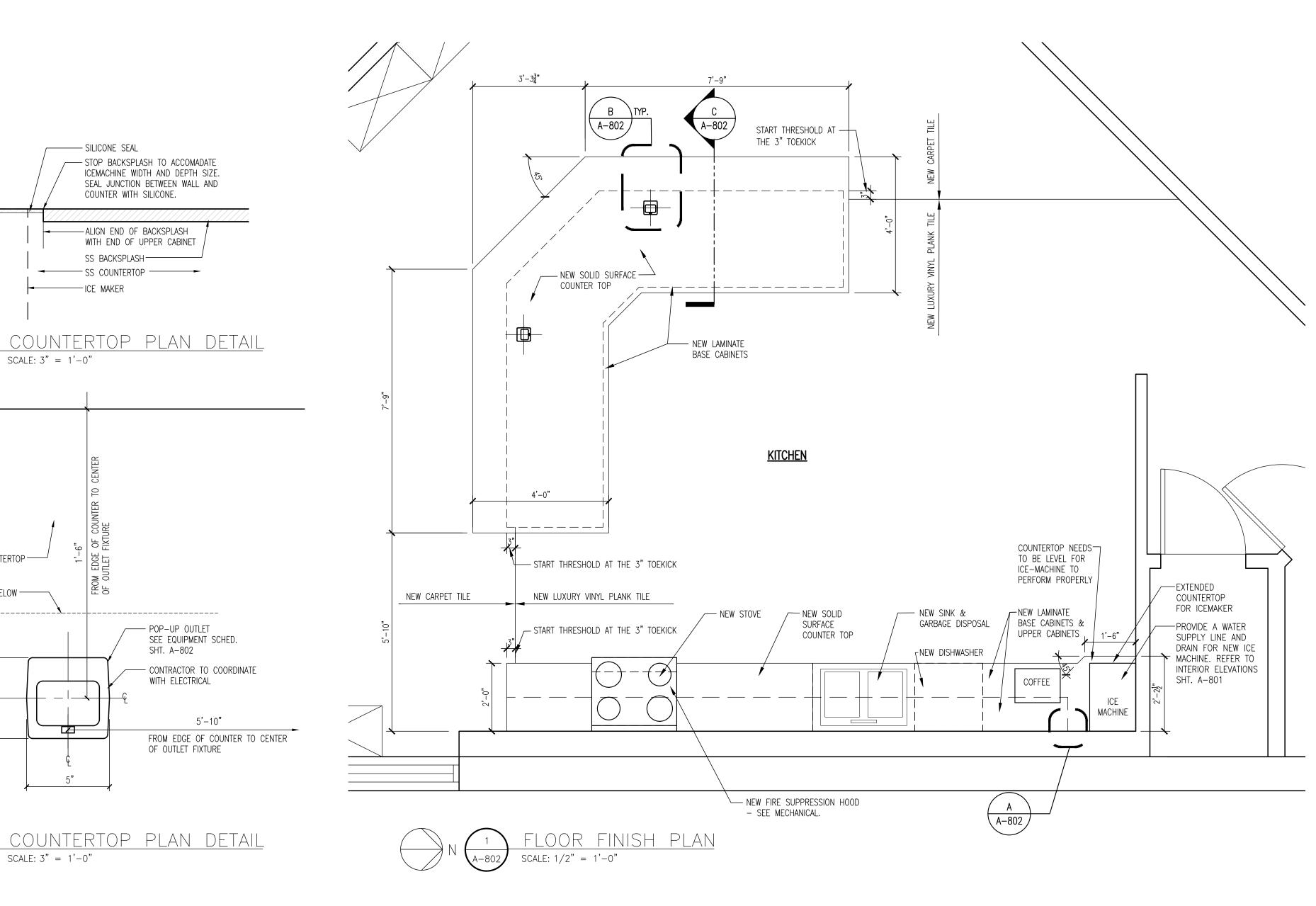
APPROVAL / VERIFICATION.

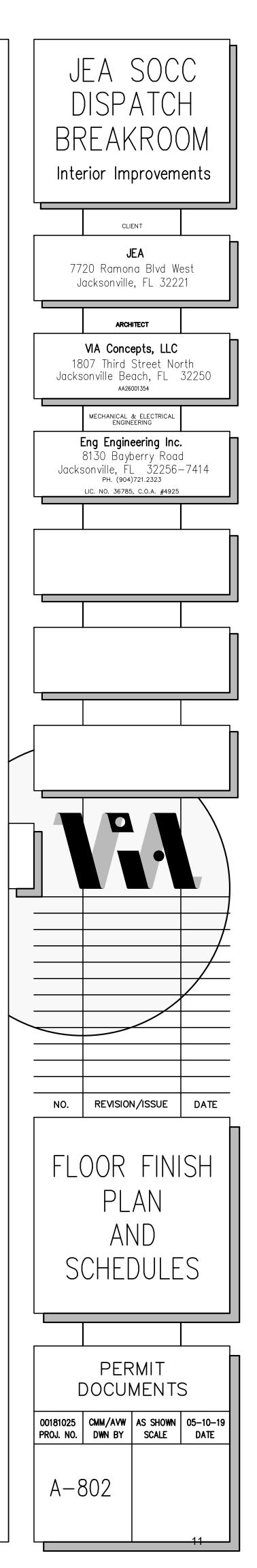
2. INSTALL NEW ACOUSTICAL CEILING TILE. EXISTING CEILING GRID IS TO REMAIN, REPAIR AND CLEAN BEFORE NEW ACOUSTICAL TILE INSTALLATION.

3. REMOVE ALL WALLPAPER, REMOVE WALLPAPER BEHIND LOCKERS AS FAR AS POSSIBLE. PATCH AND REPAIR WALLS FOR NEW PAINT

4. EXISTING TILE WALLS AND FLOORS TO BE STEAMED CLEANED AND PREPARED FOR A PROTECTIVE TILE FINISH.

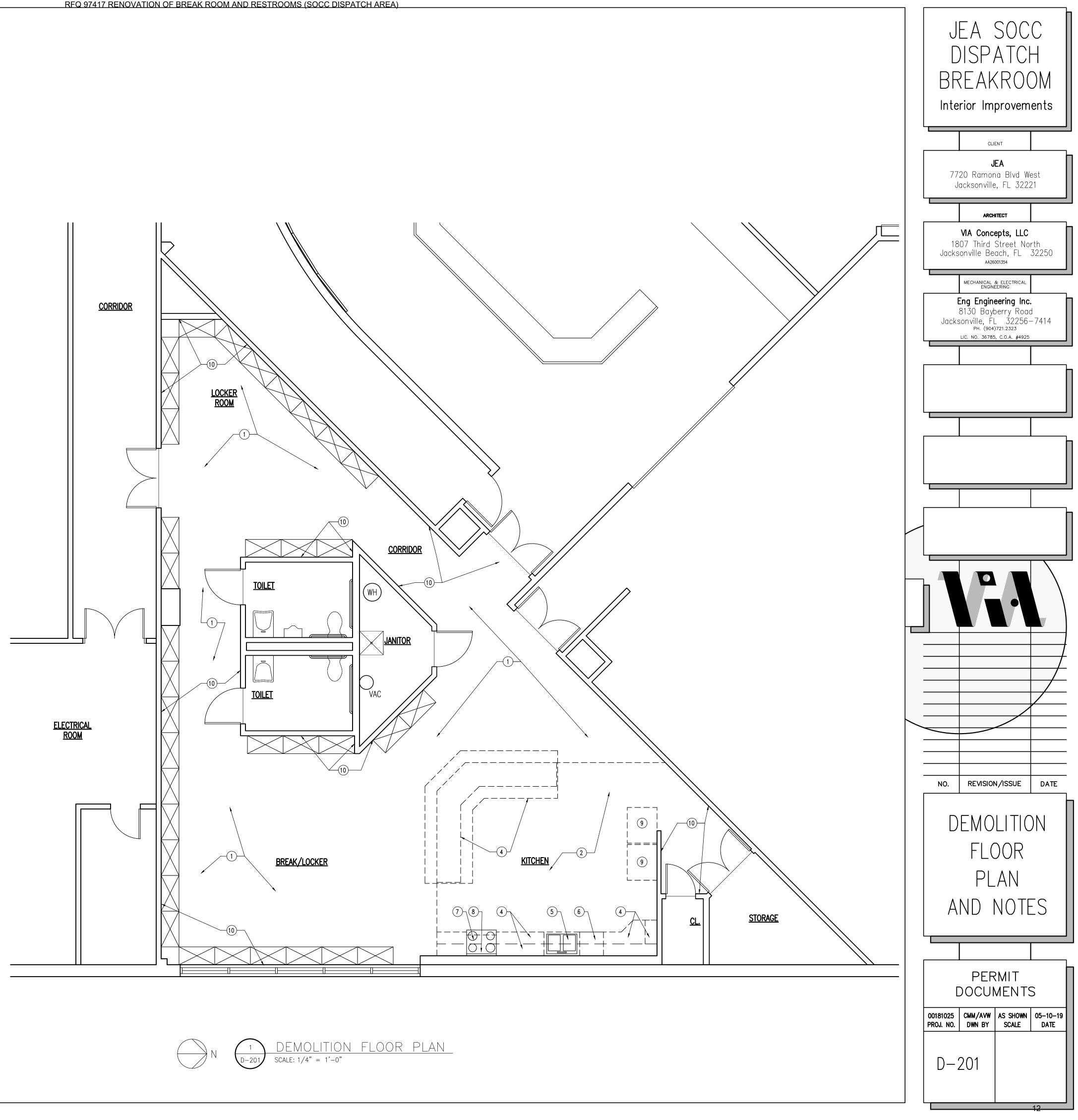
5. PAINT ALL WALLS AND TRIM WITHIN ROOMS AFFECTED BY WORK. PAINT COLOR(S) TO BE SELECTED BY OWNER.





DEMOLITION FLOOR PLAN NOTE LEGEND:

- 1 REMOVE EXISTING CARPET AND VINYL BASE IN THESE AREAS. PREPARE AREAS FOR NEW CARPET AND VINYL BASE.
- (2) REMOVE EXISTING VINYL TILE FLOORING AND VINYL BASE. PREPARE FLOORING FOR NEW LUXURY VINYL TILE AND VINYL BASE
- 3 REMOVE EXISTING RUBBER BUMPERS ON DOOR FRAMES PREPARE FRAMES FOR PAINTING
- (4) REMOVE EXISTING KITCHEN CABINETS AND COUNTER TOPS. PREPARE AREA FOR NEW CABINETS AND COUNTERTOPS.
- (5) REMOVE EXISTING KITCHEN SINK, FAUCET AND GARBAGE DISPOSAL. PREPARE PLUMBING FOR NEW SINK, FAUCETS AND GARBAGE DISPOSAL.
- (6) REMOVE EXISTING DISHWASHER. PREPARE AREA FOR NEW DISHWASHER.
- 7 REMOVE EXISTING STOVE, PREPARE AREA FOR NEW
- STOVE. (8) REMOVE EXISTING HOOD, PREPARE AREA FOR NEW
- HOOD. SEE MECHANICAL
- (9) REMOVE EXISTING REFRIGERATORS TO TEMPORARY LOCATION, SEE OWNER FOR LOCATION
- (10) REMOVE WALLPAPER THROUGH OUT ALLOCATED AREAS. REMOVE WALLPAPER WHERE THERE ARE LOCKERS AGAINST THE WALL AS FAR AS POSSIBLE. PREPARE ALL WALLS FOR PAINTING
- (11) CONTRACTOR TO INSPECT WALL AND CEILING LOUVERS/METAL PANELS AND REPLACE THOSE THAT ARE DAMAGED OR DISCOLORED COORDINATE WITH ARCHITECT AND OWNER
- (12) CONTRACTOR TO REPAIR, PREP AND PRIME ALL WALLS THAT ARE TO BE PAINTED.



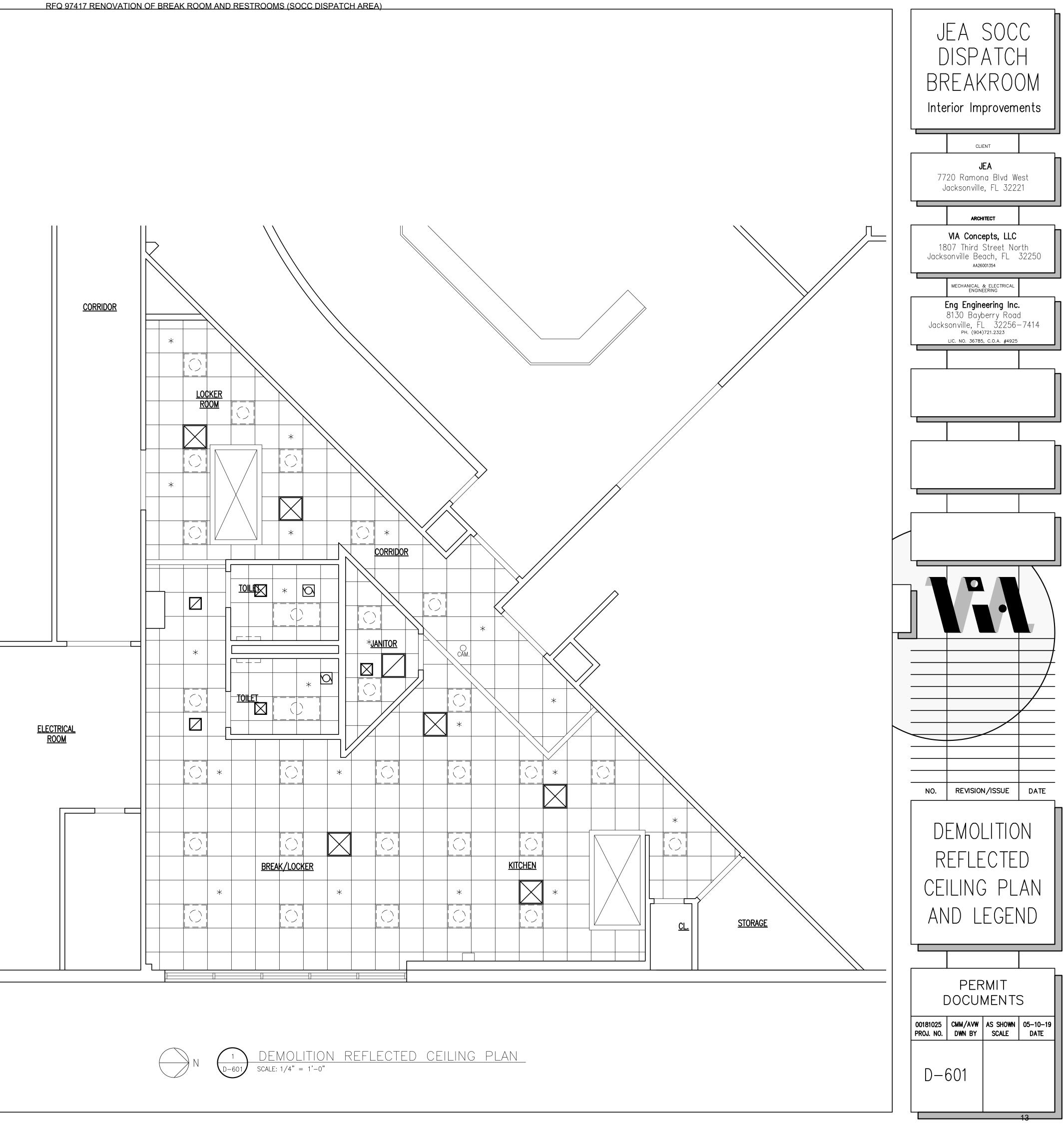


DEMOLITION REFLECT	ED CEILING PLAN LEGEND:
	EXISTING GYP BD CEILING OR SOFFIT
	EXISTING LAY-IN CEILING GRID
	EXISTING 2X4 RECESSED FLUORESCENT FIXTURE TO BE REMOVED AND REPLACED WITH NEW FIXTURE – SEE SHT. A-601
	EXISTING 2X2 RECESSED FLUORESCENT FIXTURE TO BE REMOVED AND REPLACED WITH NEW FIXTURE – SEE SHT. A-601
	EXISTING SURFACE MOUNTED LIGHT FIXTURE TO BE REMOVED AND REPLACED WITH NEW FIXTURE – SEE SHT. A–601
*	EXISTING CEILING MOUNTED SPRINKLER TO REMAIN
CAM.	EXISTING CEILING MOUNTED CAMERA TO REMAIN
$\bigotimes \overleftrightarrow$	EXIT SIGN (WITH DIRECTION)
	EXISTING HVAC SUPPLY DIFFUSER TO REMAIN – SEE MECHANICAL
	EXISTING HVAC RETURN, TRANSFER, OR EXHAUST DIFFUSER TO REMAIN – SEE MECHANICAL

NOTES:

REMOVE ALL EXISTING ACOUSTICAL CEILING TILES IN ALLOCATED AREAS. THE EXISTING CEILING GRID IS TO REMAIN. REPAIR ANY CEILING GRID DAMAGES AND CLEAN ALL CEILING GRID AREAS, TO PREPARE FOR NEW LAY-IN CEILING TILES

CONTRACTOR TO INSPECT WALLS AND CEILING LOUVERS/METAL PANELS AND REPLACE THOSE THAT ARE DAMAGED OR DISCOLORED. COORDINATE WITH ARCHITECT AND OWNER.





JEA SOCC **DISPATCH BREAKROOM**

7720 Romona Blvd. West

Jacksonville, FL 32221

PERMIT DOCUMENTS

INTERIOR IMPROVEMENTS

May 10th, 2019



ARCHITECT

VIA Concepts, LLC 1807 Third Street North Jacksonville Beach, FL 32250 FL NO. AA26001354

ABI	BREVIATIONS WHEN	USED	IN COMPOSITION MA	Y INCLUE	DE PERIODS FOR CL	ARIFICA	TION	NOTE: THIS FACILI COMPLIANT AS PE
AB ACOUS ACT AD ADH ADJ AFF AGG A/C ALUM ALT ANOD ANCH ANNUNC AP APPROX ASPH ASST AUTO B/ BB BD BITUM BLDG BLKG BMK. BOT BRG BSMT B.T.B. B.U.R. CAB CB C.BD. CEM PLAS CCK CK. BD. CIRC CCNC CONC CONF CONST CONST CONST CONT CONT CONT CONT CONT CONT CONT CON	ANCHOR BOLT ACOUSTICAL CEILING TILE AREA DRAIN ADHUSTABLE ABOVE FINISHED FLOOR AGGREGATE AR CONDITIONING ALUMINUM ALTERNATE ANCOND ANCHOR ANUNCIATOR ACCESS PANEL APPROXIMATE ANCHITECTURAL ASSISTANT AUTOMATIC BOTTOM OF BASEBOARD BOARD BITUMINOUS BULDING BLOCK BLOCK BLOCKING BLOCK BLOCKING BLOCK BLOCKING BLOCK BLOCK BLOCKING BLOCK	E AA ELAS ELEV ENCL ENCL ENCL ENCL ENCL ENCL ENCL ENCL	EAST EACH ELEVATION ELECTRICAL ELEVATOR EMERCENCY ENCLOSURE ENGINEER ENTRANCE EXPANSION JOINT ELECTRIC OUTLET ELECTRIC OUTLET ELECTRIC WATER COOLER EXAVATION EXHAUST EXISTING EXPANSION EXPANSION EXPOSED EXTERIOR FACE OF FIRE ALARM FABRIC FOOT CONTROL FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE ALARM FABRIC FOOT CONTROL FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER CABINET FIRE HOSE VALVE CABINET FIRE HOSE CACK FINISH FULTIVE FLOOR FLEXIBLE FLUORESCENT FIRE FEATDANT TREATED WOOD FOOT (FEET) FACE TO FACE FOOTING FIN TUBE RADIATION FURNISH FURNISH FURNISH FURNISH FURNISH FURNING FUTURE GAUGE GALVANIZED GENERAL GLASS FIBER REINFORCED GYPSUM GLASS GROUND GYPSUM PLASTER GRADE GRADE GRADE GRADE GRADE GRADE GRADE GRADE GRADE GRADE GRADE GRADE GRADE GRADE GRADE HOLLOW CORE HARDWOOD HARDWARE HOLLOW CORE HARDWOOT HORIZONTAL HIGH POINT HOUR HEATING HEATIN	M MACH MAINT MAS MATL MAS MECH MEMB MEZZ MFR MIN MISC MIN MIN MIN MIN MIN MIN MIN MIN MIN MIN	METER MACHINE MACHINE MASURIV MASURIV MASURIV MASURIV MASURIV CONER BEAD MECHANICAL MEMBRANE MECLANICAL MEMBRANE MECLANICAL MEDAL MASURIV OPENING MAUTACTURER MANUFACTURER MANUFACTURER MANUFACTURER MOUNTED MOUNTING METAL MULIWER MOUNTED MOUNTING METAL MULIUN MEDUM DENSITY FIBERBOARD NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE OVERALL ON CENTER OUTSIDE DIAMETER OVERFLOW DRAIN OFFICE OVERFLOW DRAIN OFFICE OVERFLOW DRAIN OFFICE PLASTER PAVING OPPOSITE HAND PUBLIC ADDRESS PAVING OPPOSITE HAND PUBLIC ADDRESS PAVING OPPOSITE HAND PUBLIC ADDRESS PAVING PLASTER PLASTIC LAMINATE PLASTIC LAMINATE PLASTER PLASTER PLUMBING PLYWOOD PARTITON PAREL POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PAINTED PANITED PARTITON PAREL POUNDS PER SQUARE INCH PAINTED PARTITON PAREL POUNDS PER SQUARE INCH PAINTED PARTITON PARTITON PAREL POUNDS PER SQUARE INCH PAINTED PARTITON PAREL POUNDS PER SQUARE INCH PARTITON PARTITON PAREL POUNDS PER SQUARE INCH PARTITON PARTITON PAREL POUNDS PER SQUARE INCH PARTITON PARTITON SOUTH SANITAPY SOLID CORE SCOUTH SANITAPY SOLID CORE SCOUTH SANITAPY SOLI	T T/ T&B T&G T.BD. TEL TEMP THK TLT TL TOPO T. STAT. TV TYP TRTD TERR UC UCL UNEXC UNF U.N.O. UR UTIL VAC VB VCT VERT VEST V.I.F. VOL VWC W W/ W/O WB WC WD WF W/O WB WC WD WF W/O WB WC WD WF WNN WPFG WSCT WT WWF YD ZN. SYMBO & * C [· Ø ~ d # ~ C [· Ø *	TREAD TOP & BOTTOM TONGUE & GROOVE TACK BOARD TELEPHONE TEMPORARY THICK TOILET TASKLIGHT TOPOGRAPHY THERMOSTAT TELEVISION TYPICAL TREATED TERRAZZO UNDER CABINET UNECRAVITED UNERCABINET UNECAVITED UNERCABINET UNECRAVITED UNERCABINET UNECRAVITED UNERCABINET UNECRAVITED UNECRAVITED UNECRAVITED UNECRAVITED UNECRAVITED UNECRAVITED UNECRAVITED UNECRAVITED UNECRAVITED UNECRAVITED VERTICAL VESTIBULE VERTY IN FIELD VOLUME VINT FILE VINTL COMPOSITION TILE VERTY IN FIELD VOLUME VERTICAL VEST WITH WITHOUT WOOD BASE WATER CLOSET WOOD WIDE FLANGE WATER HEATER WROUGHT IRON WINDOW WIRE MESH WORK POINT WATERPROFING WAINSCOT WEIGHT WELDED WIRE FABRIC TARD ZINC. DUELS AND ANGLE AT BY (LOWERCASE) CENTER DIAMETER DUBLE ANGLE NUMBER PLATE PLUS OR MINUS SQUARE FEET	CLEAR WATE CL

PROJECT NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE CODES. ENGINEERING SHALL CONFORM WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS HAVING JURISDICTION INCLUDING ACCESSIBILITY STANDARDS AND ADA REQUIREMENTS.

I. GENERAL NOTES

PERTINENT TO THEIR WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS, REFER TO CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS, ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING COMPONENTS. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON ANY ONE SHEET ARE TO BE APPLIED ON RELATED DRAWINGS AND DETAILS.

SUBCONTRACTORS FOR EACH TRADE ARE ADVISED THAT INFORMATION

THE STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS ARE OF EQUAL IMPORTANCE WITH THE ARCHITECTURAL DRAWINGS IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF STRUCTURAL, MECHANICAL AND ELECTRICAL WORK. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS THAT WOULD CAUSE AN AWKWARD OR IMPROPER INSTALLATION. IT SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF WALLS IN THE SPACE.

4. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING STRUCTURE TO ENSURE THAT THE DEMOLITION OF EXISTING INTERIOR WALLS WILL NOT AFFECT ANY OF THE EXISTING AREA STRUCTURALLY PRIOR TO DEMOLISHING. THE CONTRACTOR SHALL CONTACT THE DESIGN PROFESSIONAL IF HE OR SHE HAS ANY QUESTIONS OR CONCERNS ON ANY OF THE DEMOLITIONS ITEMS SHOWN ON THE DOCUMENTS.

5. DO NOT SCALE THE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND. THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE COMMENCING THE WORK. EXPLICIT DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALE.

DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. FINISH FLOOR ELEVATIONS ARE TO TOP OF CONCRETE, UNLESS OTHERWISE

NOTED. ANY DETAILS, SYSTEMS, MATERIALS, (I.E. ARCHITECTURAL, STRUCTURAL, MECHANICAL, ETC.) WHICH ARE PROPOSED TO BE CHANGED MUST FIRST BE

REVIEWED BY THE OWNER, ARCHITECT AND GENERAL CONTRACTOR PRIOR TO THE PREPARATION OF SHOP DRAWINGS.

II. DIMENSIONING

PARTITIONS ARE DIMENSIONED TO THE EDGE OF THE WALL FRAMING UNLESS NOTED OTHERWISE.

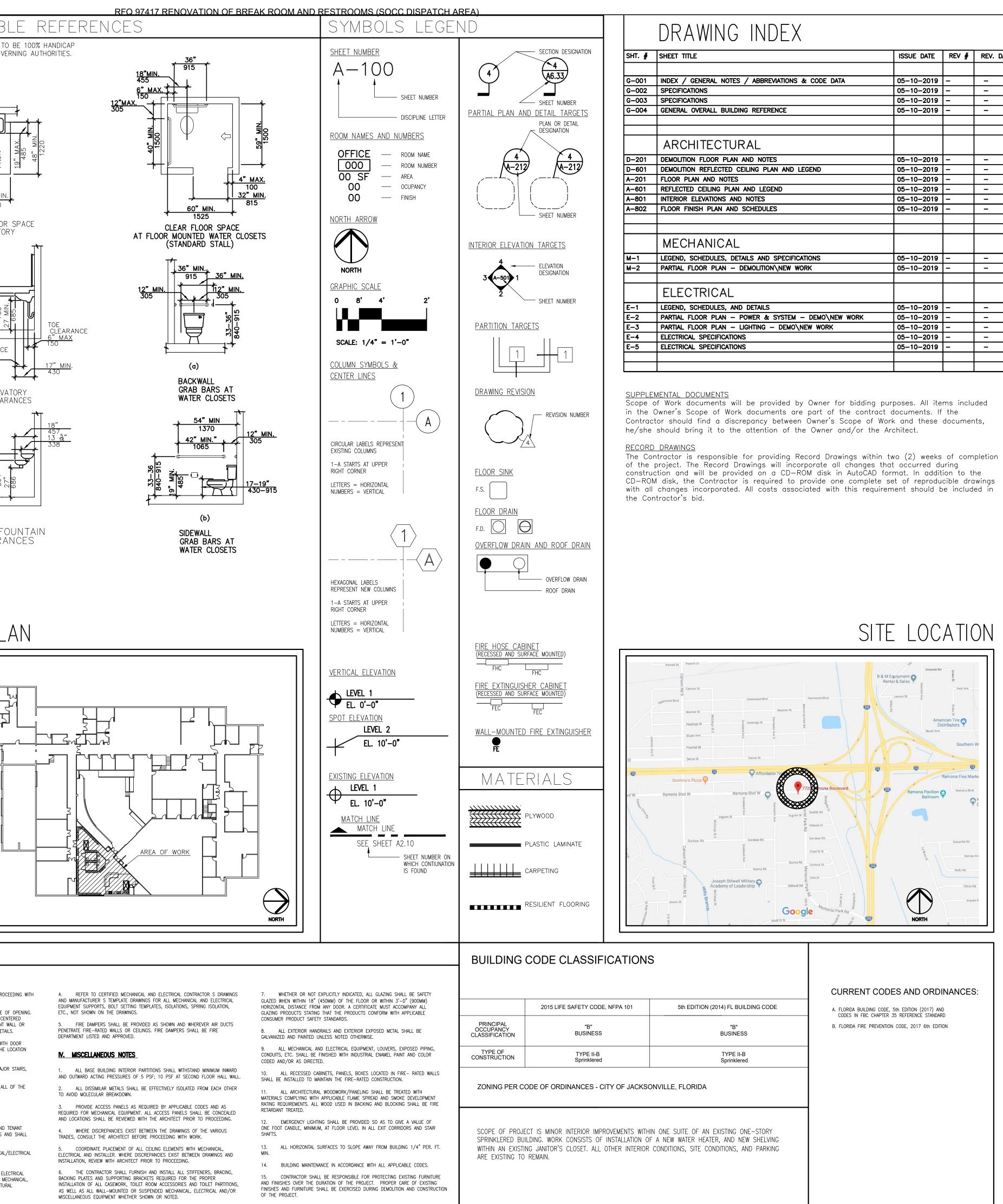
ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH THE WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY CORRECTION. 3. DOOR OPENINGS ARE GENERALLY DIMENSIONED TO CENTERLINE OF OPENING. DOOR OPENINGS THAT ARE NOT DIMENSIONALLY LOCATED ARE TO BE CENTERED BETWEEN WALLS OR POSITIONED WITH ONE JAMB AGAINST AN ADJACENT WALL OR COLUMN AS SHOWN ON THE PLANS AND/OR DETERMINED FOR THE DETAILS. WHEN UNDIMENSIONED PARTITIONS APPEAR IN CONJUNCTION WITH DOOR OPENINGS, THE DOOR WIDTH AND DOOR FRAME DETAILS DETERMINE THE LOCATION OF ADJACENT WALLS AND FRAMES. REFER TO 1/4" (1:50) SCALE PLANS FOR DIMENSIONS OF MAJOR STAIRS, TOILETS AND ELEVATOR SHAFTS UNLESS OTHERWISE SHOWN. ALL DIMENSIONS SHALL BE VERIFIED AND COORDINATED WITH ALL OF THE WORK OF ALL TRADES.

III. MECHANICAL AND ELECTRICAL AREAS

AREAS UNLESS NOTED OTHERWISE.

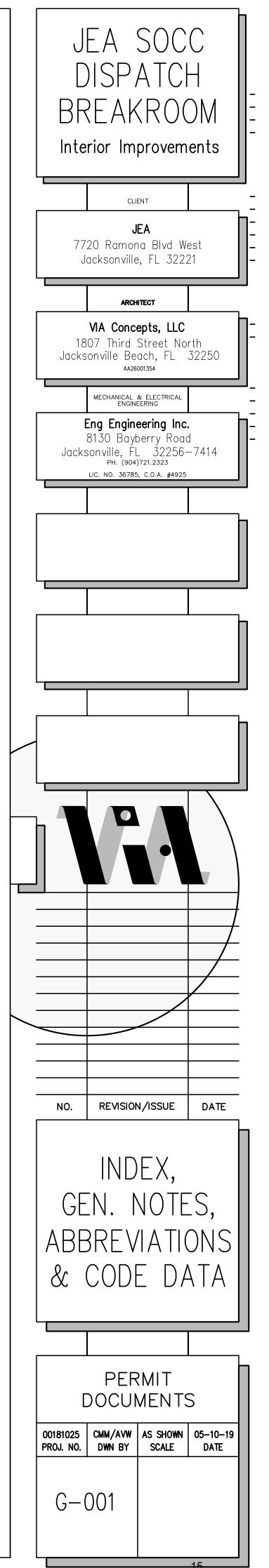
ALL WALLS BETWEEN MECHANICAL OR ELECTRICAL SPACES AND TENANT SPACES SHALL BE ACOUSTICALLY ISOLATED FROM THE TENANT SPACES AND SHALL MAINTAIN A MINIMUM STC RATING OF 52. PROVIDE A 4" (MIN.) CONCRETE SLAB AT EXTERIOR MECHANICAL/ELECTRICAL

GENERAL CONTRACTOR TO COORDINATE ALL MECHANICAL AND ELECTRICAL FLOOR, ROOF AND WALL SLEEVES AND ALL MECHANICAL SHAFTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS



DRAWING INDEX			
SHEET TITLE	ISSUE DATE	REV #	REV. DATE
INDEX / GENERAL NOTES / ABBREVIATIONS & CODE DATA	05-10-2019	-	-
SPECIFICATIONS	05-10-2019	-	-
SPECIFICATIONS	05-10-2019	-	-
GENERAL OVERALL BUILDING REFERENCE	05-10-2019	-	-
ARCHITECTURAL			
DEMOLITION FLOOR PLAN AND NOTES	05-10-2019	-	-
DEMOLITION REFLECTED CEILING PLAN AND LEGEND	05-10-2019	-	-
FLOOR PLAN AND NOTES	05-10-2019	-	-
REFLECTED CEILING PLAN AND LEGEND	05-10-2019	-	-
INTERIOR ELEVATIONS AND NOTES	05-10-2019	-	-
FLOOR FINISH PLAN AND SCHEDULES	05-10-2019	-	-
MECHANICAL			
LEGEND, SCHEDULES, DETAILS AND SPECIFICATIONS	05-10-2019	-	-
PARTIAL FLOOR PLAN - DEMOLITION\NEW WORK	05-10-2019	-	-
ELECTRICAL			
LEGEND, SCHEDULES, AND DETAILS	05-10-2019	-	-
PARTIAL FLOOR PLAN - POWER & SYSTEM - DEMO\NEW WORK	05-10-2019	-	-
PARTIAL FLOOR PLAN - LIGHTING - DEMO\NEW WORK	05-10-2019	-	-
ELECTRICAL SPECIFICATIONS	05-10-2019	-	-
ELECTRICAL SPECIFICATIONS	05-10-2019	-	_

SITE LOCATION



00100 - Bidding Requirements

1.1 A Prebid Meeting will be held at the Project Site on ___ Date ___ Time. Attendance by all Bidders is mandatory.

1.2 Submit Bids to Owner prior to ____ Date ___ Time. The location for receipt of bids is ____. Late bids will be rejected.

1.3 Consult Owner for bid form, with any variations from the requirements of the Contract Documents clearly identified.

1.4 For the Bid to be considered valid, it must be signed by an Officer of the Company submitting the Bid.

1.5 The Owner reserves the right to accept any Bid in whole, or with conditions mutually agreeable to the Owner and Bidder. The Owner also reserves the right to reject Bids in their entirety for budgetary reasons or irregularities in the Bidding process.

00700 - Contract

1.1 The Conditions of the Contract for Construction are the American Institute of Architects (AIA) Document A107-1997 Edition, as amended by Section 00800, the Supplementary Conditions of the Contract for Construction. AIA Document A107 is hereby incorporated by reference. In the event that the Owner and the Contractor execute a contract not in this form, all the terms contained in the AIA Documents A107, and in Section 00800 remain in full effect, unless specifically modified or nullified by the alternative agreement.

00800 - Supplemental Conditions

1.1 Add as Provision 4.1.4: Provide lien waivers covering Work identified in the Application for Payment for the previous month. Submit with each Application for Payment, starting with the second Pay Application.

1.2 Add as Provision 4.1.5: Provide a lien waiver for the total value of the Contract upon approval of the final Payment Application. The final payment will be made after work is complete and waiver is executed, including items on lists prepared by the Contractor and Architect.

1.3 Add as Provision 4.1.6: Consult owner on retainage for this project. Retainage will be released upon Substantial Completion.

1.4 Add to Provision 6.1: Addenda are defined as Changes prior to the execution of the Contract for Construction. Modifications are defined as Changes subsequent to the execution of the Contract for Construction. Minor Modifications are interpretations and clarifications not involving a change in time or cost.

1.5 Add to Provision 6.5: The Contractor may purchase electronic drawing files. Files will be released upon execution of an Electronic File Transfer Agreement. The cost per Electronic Sheet File is \$980.

1.6 Add as Provision 8.1.3: Provide construction layout prior to the start of Work. Identify areas that appear to be inconsistent with the Documents, or which appear to preclude installation of items as indicated. Refer those areas to the Architect and/or Owner for resolution prior to proceeding with the Work.

1.7 Add as Provision 8.3.5: Provide materials and equipment consistent with the requirements of the Documents. Submit requests for substitution of materials and equipment to the Architect in writing with sufficient time for review, response, coordination and procurement prior to the scheduled installation and project completion date.

1.8 Add as Provision 8.3.6: Where materials are applied to, or are in direct contact with Work installed by another Subcontractor, commencement of Work implies acceptance of the substrate as suitable for the application intended.

1.9 Add as Provision 8.7.3: Submit Shop Drawings as required by the Specifications, the Architect, or as necessary to provide an integrated installation of items or systems.

1.10 Add as Provision 8.8.1: Obtain permission from, and coordinate Work with the Building Owner and Property Manager before start of Work.

1.11 Add as Provision 8.8.2: Comply with Building Owner's or Property Manager's construction guidelines and procedures.

1.12 Add as Provision 8.12.1: Allow access to the Project Site by the Owner, Architect, the Owner's Testing Agency and any of the Owner's Separate Contractors.

1.13 Add as Provision 13.4: Provide a Construction schedule prior to the start of Work. Update the schedule on a regular basis.

1.14 Add as Provision 15.4.5: Obtain the "Certificate of Occupancy" for the tenant, prior to tenant move-in. Provide copies of the Certificate to the Owner and Building Manager.

1.15 Add as Provision 20.1: In the event that concealed or unforeseen conditions are encountered, notify the Architect in writing before proceeding with Work.

1.16 Add as Provision 20.2: Provide a Performance and Payment Bond covering the full value of the Work. Submit Bond with Bid.

01000 - General Requirements

1.1 The Project consists of: Interior improvements within an existing two-story sprinklered building. Work is limited to two restrooms and a break room with kitchenette. Work includes updating finishes (including paint, carpet, base, ceiling tiles, and countertops), replacing existing plumbing fixtures, replacing existing millwork, and providing new appliances. Project also includes minor electrical work and cleaning of existing HVAC ducts/grilles. Fire protection system is existing to remain.

1.2 Contractor shall consult and coordinate with Owner on the following items 1.2 through 1.9, and verify requirements for Sequence of Work, Phasing, and Occupancy.

1.3 Prior or Concurrent Work by Owner or Others: none.

1.4 Existing Site Conditions and Restrictions: Refer to demolition plan. Contractors to attend mandatory pre-bid meeting to familiarize themselves with existing site conditions. For site restrictions, coordinate with JEA.

1.5 Contractor's Use of Premises and Adjacent Facilities: Coordinate with JEA.

1.6 Owner's Building Standards: Coordinate with JEA.

1.7 Field verify existing conditions prior to submission of Bids. Inspect all readily visible areas. Readily visible areas include spaces above accessible ceilings.

1.8 Verify product availability prior to submission of Bids.

1.9 Unless scheduled at the end of this Section, materials to be supplied by the Building Owner, but purchased and installed as Work of this package, are to be verified by the Contractor prior to the submission of bids. This may include items similar to doors, frames, light fixtures, etc.

1.10 Schedule of Items not Supplied by the Contractor: Pre-purchased and Preordered Items: Coordinate with Owner. Owner-Furnished and Owner-Installed Items: Coordinate with Owner. Owner-Furnished and Contractor-Installed Items: Coordinate with Owner.

RFQ 97417 RENOVATION OF BREAK ROOM AND RESTROOMS (SOCC DISPATCH AREA) 06100 - Rough Carpentry 07920 - Joint Sealants 1.1 Provide Rough Carpentry: 1.1 Provide joint sealers at vertical and horizontal joints. Wood grounds, nailers, and blocking. Wood furring. 1.2 Submit product data, mockup of each joint type, adhesion test results for each joint type. Backing panels. - Remodel existing rough carpentry. 2.1 Silicone Elastomeric Joint Sealants: - Type and Application: One-part mildew-resistant silicone sealant, ASTM C 920, for sanitary applications, interior 1.2 Submit product data use. 1.3 Lumber Standards and Grade Stamps: PS 20, American Softwood Lumber Standard and inspection agency 2.2 Latex Joint Sealants: - Acrylic Type: Acrylic-emulsion, ASTM C 834. grade stamps. - Application: Interior joints in vertical and overhead surfaces with limited movement. 1.4 Construction Panel Standards: PS 1, U.S. Product Standard for Construction and Industrial Plywood; APA PRP-108. 2.3 Fire-Resistive Joint Sealers: - Type: One part fire-stopping sealant. 1.5 Fire-Retardant Treatment: AWPA C20 for lumber and AWPA C27 for plywood; noncorrosive type. - Application: Penetrations in fire-rated floor and wall assemblies. 2.1 Miscellaneous Lumber, Blocking and Nailers: 2.4 Specialty Sealants: - Type and Application: Synthetic rubber for acoustical sealant for concealed joints. - Moisture Content: 19 percent. Grade: Standard grade light framing; Stud, No. 3 or Standard grade. - Type and Application: Butyl-polyisobutylene sealant and tape sealant for concealed joints. - Treatment: Fire-retardant treated. 3.1 Test sealant adhesion for each substrate required. 2.2 Construction Panels: - Plywood Backing Panels: APA C-D Plugged Exposure 1 with exterior glue, fire-retardant treated. 3.2 Install in proper relation with adjacent work. 3.1 Comply with NFPA Manual for House Framing, NFPA Recommended Nailing Schedule, and NFPA National Design 3.3 Clean adjacent surfaces soiled with sealant immediately. Specifications for Wood Construction. 3.2 Comply with APA Design and Construction Guide, Residential and Commercial Construction. 3.3 Provide nailers, blocking and grounds where required. Set work plumb, level and accurately cut. 09260 – Gypsum Board Assemblies 3.4 Comply with manufacturer's requirements for treated materials. 1.1 Provide Gypsum Board Assemblies: - Interior walls, partitions, and ceilings for tape and joint compound finish. 06402 – Interior Arch. Woodwork Exterior soffits. Insulation and vapor barrier systems in gypsum drywall systems. Cementitious backer units for application of tile. Glass-reinforced gypsum fabrications. 1.1 Provide Interior Architectural Woodwork: Remodeling gypsum drywall systems at areas of new construction. - Standing and running trim and rails. Casework and countertops. 1.2 Submit product data, 4 foot by 4 foot mockup showing joint treatment. - Flush wood paneling and wainscots. Ornamental items. 2.1 Products: As selected by Architect complying with the following, unless otherwise indicated on drawings. Stairwork and rails. - Door frames, glazed frames and framed openings. 2.2 Gypsum Wallboard: ASTM C 36, regular, foil-backed, and fire-rated types, 1/2 inch typical thickness. - Shelving. Remodel existing interior architectural woodwork. 2.3 Water-Resistant Gypsum Backing Board: ASTM C 630, regular and fire-rated types, 5/8 inch typical - Refinish existing interior architectural woodwork. thickness. 1.2 Submit product data, samples, mockup of each type. 2.4 Exterior Gypsum Soffit Board: ASTM C 931, regular and fire-rated types, 1/2 inch typical thickness. - Joint Treatment: ASTM C 475 and ASTM C 840, 3-coat system. 1.3 AWI Standards: Architectural Woodwork Institute (AWI) "Architectural Woodwork Quality Standards." Perform all – Installation Standard: ASTM C 840. work in accordance with AWI premium quality. 2.5 Glass-Mat Water-Resistant Gypsum Backing Board: 1.3 WIC Standards: Woodwork Institute of California (WIC) "Manual of Millwork." - Type: ASTM C 1178, Type X, 5/8 inch thick type. 1.4 Fire-Retardant Treatment: 2.6 Cementitious Backer Units: - Lumber: AWPA C20, non-corrosive interior type. - Type: ANSI A 118.9, cement-coated Portland cement panels. - Plywood: AWPA C27, non-corrosive interior type. - Thickness: 1/2 inch nominal. - Particleboard: ASTM E 84, flame spread 20 or less. 2.1 Interior Standing and Running Trim and Rails: 2.7 Trim Accessories: Species for Transparent Finish: Match existing. - Material: Metal or plastic trim. Species for Opaque Finish: White pine or sugar pine - Types: Cornerbead, edge trim, and control joints. - Grade: Premium. - Decorative Profiles: Aluminum reveals and channels. 2.2 Interior Wood Casework: 2.8 Steel Framing for Walls and Partitions: - Species for Transparent Finish: Rift sawn/cut oak. - Steel Studs and Runners: ASTM C 645, 22 gage (.0276 inch) steel studs, 3-5/8 inch typical depth unless Species for Opaque Finish: Closed grain hardwood. otherwise indicated. - Grade: Premium. - Furring Channels: ASTM C 645, 20 gage (.0329 inch). - Face Style: Flush overlay. - Auxiliary Framing Components: Furring brackets, resilient furring channels, Z-furring members, and - Frame Fabrication: Face frame. non-corrosive fasteners. - Grain Matching: Vertical. – Installation Standard: ASTM C 754. 2.3 Interior Plastic Laminate Clad Casework: 2.9 Steel Framing for Suspended and Furred Ceilings: - Laminate: High pressure decorative laminate, NEMA LD-3. - Furring Channels: ASTM C 645, 20 gage (.0329 inch) resilient channels. - Grade: Premium. - Steel Studs: Match steel studs used for walls. - Face Style: Flush overlay. - Accessories: Hangers and inserts. - Frame Fabrication: Face frame. – Installation Standard: ASTM C 754. 2.4 Casework Hardware and Auxiliary Materials: 2.10 Glass-Reinforced Gypsum Fabrications: Hardware Standard: ANSI/BHMA A156.9 - Gypsum: ASTM C 22. Hardware Finish and Base Metal: Satin stainless steel. - Glass Fibers: ASTM D 578, Type E glass. - Glass: Clear float glass, ASTM C 1036. - Finish: Surface suitable for high-gloss paint. 2.5 Interior Plastic Laminate Clad Countertops: 2.11 Auxiliary Materials: - Laminate: High pressure decorative laminate, NEMA LD-3. - Gypsum board screws, ASTM C 1002. - Grade: Premium. - Gypsum board nails, ASTM C 514. - Core: Plywood. - Fastening adhesive. – Edge: Laminate. Concealed acoustical sealant. - Mineral fiber sound attenuation blankets. 3.1 Comply with standards referenced. - Mineral fiber thermal insulation. - Polyethylene vapor retarder, 6 mils. 3.2 Backprime work before installation. - Polystyrene aggregated finish for ceilings. 3.3 Provide trim for scribing and site cutting. 3.1 Comply with standards referenced above and ASTM C 840 and GA 216. 3.4 Install work plumb, level and in proper alignment. 3.2 Install joints only over framing members. Do not allow butt-to-butt joints. 3.5 Provide work free from tool marks and blemishes. 3.3 Provide blocking for items such as railings, grab bars, casework, toilet accessories, and similar items. 3.6 Securely fasten to substrates 3.4 Provide acoustical sealant at runner tracks, wall perimeters, openings, expansion, and control joints. 3.7 Install in lengths to minimize joints and seams. 3.5 Install gypsum board assemblies true, plumb, level and in proper relation to adjacent surfaces. 3.8 Color match wood for transparent finish at joints for uniform appearance. 3.6 Where new partitions meet existing construction, remove existing cornerbeads to provide smooth transition. 3.9 Coordinate mounting heights and clearances of casework with electrical devices and mechanical services such 3.7 Provide control joints in gypsum board ceilings at locations shown, or if not shown, so as not to exceed a as water supply and drain lines. Notify the Architect of any discrepancies. 30 foot length of unbroken gypsum board in any direction. Submit layout of control joints for review prior to installation. 3.10 Provide finished end panels on casework with ends not abutting a wall or adjoining case. End panel is to be faced with the same material as the exterior face of the case to which it is applied. 3.8 Provide 3-coat joint treatment such that, after finishing, joints are not visible. 3.11 At sink locations, provide continuous sealant at the top of base cabinet backsplashes to seal the backsplash 3.9 Sand and leave ready for finish painting and wall treatment. to the walls. 3.12 Touch-up damaged or abraded finishes.

submittal process.

the completion of demolition operations.

application.

submittals, 3 copies.

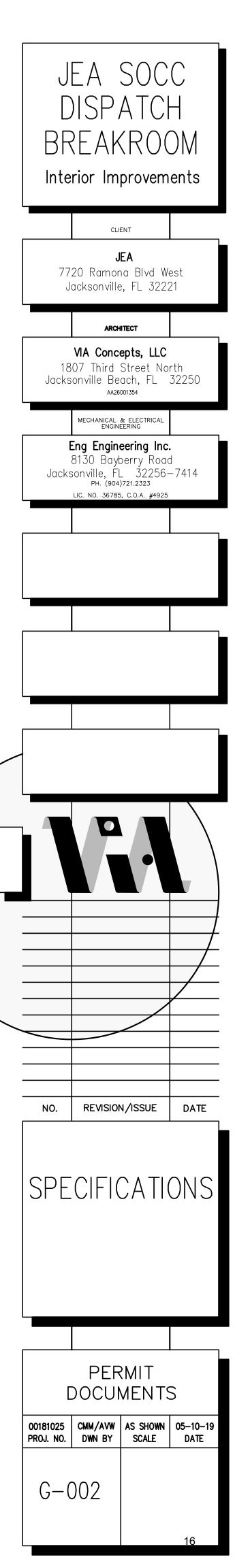
shop drawings only.

01330 - Submittal Procedures 1.1 Submit proposed revisions to details, systems, and/or materials prior to, and separate from the Shop Drawing 1.2 Submit photos documenting existing conditions where Work is to be undertaken prior to the start of, and at 1.3 Submit a project schedule, update in accordance with Section 00800, and submit schedule with each pay 1.4 Submit samples and shop drawings allowing adequate time for review, approval, and procurement. 1.5 Submit for approval all submittals listed in individual sections with the following number of copies: Shop drawings, reviewed and annotated by the Contractor, 3 copies plus reproducible sepia; product data, 3 copies; samples, 3 sets plus range samples where applicable; test reports, 3 copies; warranties, 3 copies; other 1.6 Include details of construction and adjacent construction in shop drawings. Fabricate materials from approved 01500 – Temp. Facilities & Controls 1.1 If temporary facilities and connections are required for the proper completion of the project, Contractor shall provide written request to owner for a possible temporary office set-up inside the building. 1.2 Building utility services, and designated sanitary facilities will be available for Contractor's use. 1.3 Owner will pay for utility services consumed. 1.4 All building and site facilities used shall be returned to original condition at completion of Work. 01600 - Product Requirements 1.1 Inspect existing conditions and report potentially problematic conditions in writing. 1.2 Do not proceed until unsatisfactory conditions have been corrected. 1.3 Take field measurements prior to fabrication where practical. Form to required shapes and sizes with true edges, lines and angles. Provide inserts and templates as needed for work of other trades. 1.4 Install manufactured items, materials and equipment in accordance with the approved submittals and manufacturer's recommendations, unless superceded by installation requirements contained within the individual Specification Sections. In the event of a conflict, the more stringent requirement shall apply. 1.5 Install materials in proper relation with adjacent construction and with proper appearance. 1.6 Restore units damaged during installation. Replace units which cannot be restored at no additional expense to the Owner. 1.7 Refer to additional installation requirements and tolerances specified under individual specification sections. 01732 - Selective Demolition 1.1 Cut, remove, and cap all utilities at the boundary of demolition. Verify that utilities have been cut and capped 1.2 Perform demolition operations in an orderly manner, minimizing disturbances to existing tenants and public spaces. 1.3 Construct dust barriers at all adjacent construction. Seal dust barriers to prevent the migration of dust into adjacent spaces. 1.4 At areas of the existing building exposed as a result of demolition operations, provide thermal and moisture protection, until such time as the permanent construction is installed. 1.5 Perform demolition operations that create excessive noise, such as structural demolition, after normal business hours. 1.6 Do not perform structural demolition unless the Owner and Architect have been notified in writing, and demolition has been authorized. 1.7 Retain a Consulting Engineer to review structural demolition procedures and to verify the integrity of the building during structural demolition Work. 1.8 Distribute debris in order to avoid excessive loads on the supporting structure. 1.9 Remove debris from the building after hours. 1.10 Coordinate procedures related to debris removal with the Building Owner/Manager. 1.11 Provide at least [72] hours notice to Owner if shutdown of utility service is required during Selective 1.12 Verify that existing mechanical and electrical items identified to remain are supported in a Code Compliant 1.13 Remove and Reinstall the following items: Consult Owner 1.14 Remove and Salvage the following items: Consult Owner

prior to the start of demolition operations.

Demolition.

fashion.



09310 — Ceramic Tile	09650 - Resilier
 1.1 Provide tile for the following applications: Wall tile over gypsum wallboard. Wall tile over tile backer board at wet areas. Wall tile over concrete and concrete masonry units. Floor tile over concrete slab. Floor tile over plywood and wood decking. 1.2 Submit product data, samples, 4 foot by 4 foot mockup. 2.1 Products: As selected by Architect complying with the following, and to match existing adjacent tile. 	 1.1 Provide resilient flooring. 1.1 Remodel existing resilient flooring. 1.2 Submit product data, samples, 4 foot by 4 foot moc 2.1 Products: Armstrong Natural Creations Luxury Vinyl T 2.2 Tile Flooring: LVT, Luxury Vinyl Tile: ASTM F1700 (Class III, Type B,
 2.2 Tile Materials: ANSI A 118 series standard specifications. 2.3 UCM, Unglazed Ceramic Mosaic Tile: Type: Porcelain factory-mounted flat tile. Size: to match existing tile. Thickness: 1/4 inch nominal. Face: Plain face with cushion edges. 2.4 GCM, Glazed Ceramic Mosaic Tile: 	 2.3 Auxiliary Materials: 2.3 Auxiliary Materials: Edge strips and terminations. Feature strips and inlaid borders. 3.1 Prepare surfaces by cleaning, leveling and priming. 3.2 Level to 1/8 inch in 10 feet tolerance.
 Type: Porcelain factory-mounted flat tile. Size: to match existing tile. Thickness: 1/4 inch nominal. Face: Plain face with cushion edges. 2.5 GWT, Glazed Wall Tile: Type: Interior type body, flat tile. Face: to match existing tile. Thickness: 5/16 inch nominal thickness. Face: Plain face with modified square edge. 	3.3 Install tile with tight joints and required patterns. 3.4 Install vinyl tile in accordance with the Manufacturer's installation methods. Use clear non-water-soluble adhes
 2.6 Tile Accessories: Matching trim units. Marble thresholds. Slate thresholds. Ceramic toilet accessories. 	09653 - Resilient
 2.7 Setting Materials: Portland cement mortar, ANSI A108.1. Dry-set Portland cement mortar, ANSI A118.1. Latex-Portland cement mortar, ANSI A118.4. Conductive dry-set mortar, ANSI A118.2. Chemical-resistant epoxy adhesive, ANSI A118.3. Chemical-resistant furan mortar, ANSI A118.5. Modified epoxy emulsion mortar, ANSI A118.8. Organic adhesive, ANSI A136.1, Type 1. 2.8 Grout: 	 1.1 Provide resilient wall base, resilient stair accessories, 1.1 Remodel existing resilient wall base and accessories. 1.2 Submit product data, samples, mockup. 2.1 Products: As selected by Architect complying with th 2.2 Resilient Wall Base: VB, Vinyl Wall Base: FS SS-W-40, Type II, 0.125 inche Height: 4 inches. Type: Cove type.
 Sand-Portland cement grout, ANSI A108.10. Commercial Portland cement grout, ANSI A118.6. Dry-set grout, ANSI A118.6. Latex-Portland cement grout, ANSI A118.6. Chemical-resistant epoxy grout, ANSI A118.3. 	 2.3 Resilient Accessories: RA, Rubber accessories. VA, Vinyl accessories. 2.4 Installation Accessories:
 Chemical-resistant furan resin grout, ANSI A118.5. Elastomeric grout for pregrouted sheets: Silicone rubber. 2.9 Setting Accessories: Membrane waterproofing under tile. Cementitious tile backer board. 	 Concrete Slab Primer: Nonstaining type. Trowelable Underlayments and Patching Compounds: L Stair Tread Nose Filler: Two-part epoxy compound. Adhesives: Water-resistant type.
 2.10 Elastomeric Sealants: One-part mildew-resistant silicone sealant for non-traffic areas. Multi-part pourable urethane sealant for traffic areas. Chemical-resistant sealant at chemical-resistant flooring. 	3.1 Install vinyl base in accordance with manufacturer's r3.2 Joints in vinyl base shall not occur closer than 6" frminimum measurement of 24" between joints.
3.1 Comply with ANSI 108 series standard specifications and Tile Council of America, Handbook for Ceramic Tile Installation.	
3.2 Layout tile in grid pattern with alignment of grids, to provide uniform joint width, and to minimize cutting. 3.3 Grout, cure, clean and protect tile surfaces.	09681 - Carpet
09510 - Acoustic Ceilings	 1.1 Provide carpet tile and floor preparation. 1.2 Remodel existing carpet tile. 1.2 Submit product data, samples, mockup, warranty, main 2.1 CT, Products: Shaw Quick-Ship carpet tile with 20 oz
 1.1 Provide acoustical lay-in ceilings, trim, and metal suspension system. 1.1 Provide acoustical tile ceilings, trim, and concealed metal suspension system. 1.1 Remodel existing acoustical lay-in ceilings, trim, and metal suspension system. 1.2 Submit product data, samples. 	 and/or pattern. 2.2 Auxiliary Materials: Edge guards. Adhesives, cements and fasteners. 2.3 Carpet Tile Installation Method: Glue-down installation. 3.1 Install with tight seams and carpet tile grain running
 2.1 Products: As selected by Architect complying with the following, unless otherwise indicated on drawings. 2.2 ATC, Acoustical Tile Ceilings: Size: 12 by 24 inches by 5/8" thick. Edge Detail: Square joints. Pattern: Lightly textured pattern. Type and Finish: Scrubbable finish, ASTM E 1264. 2.3 Suspension Systems: Exposed grid suspension system, ASTM C 635 intermediate duty classification, standard profile. 	3.2 Provide cutouts for floor outlets and similar penetrati3.3 Provide edge guards at change of flooring materials.3.4 Provide 10% extra stock for Owner's future use.
 Concealed grid suspension system, ASTM C 635 intermediate duty classification. Fire-Rating: Non-fire-resistance rated suspension system. Suspension System Accessories: Attachment devices and hangers, ASTM C 635. Cap Material: Painted steel finish. Edge molding and trim. 3.1 Measure and layout acoustical ceilings to avoid less than 1/2 panel units whenever practical. 	
3.2 Install suspension systems in accordance with ASTM C 636. 3.3 Install panels with pattern or grain running one-way.	

silient Flooring

4 foot mockup, maintenance data.

Luxury Vinyl Tile, pattern/color to be selected by Owner/Architect.

III, Type B, Embossed Surface) and Manufacturing Facility: ISO 14001 36"-48" lengths), 0.125 in. (3.2 mm) thickness with 0.020 in. (0.5 ient Warranty.

Manufacturer's recommendations. Use suggested adhesive and soluble adhesive.

lient Wall Base & Acc.

accessories, resilient flooring accessories, resilient carpet accessories. accessories.

plying with the following.

0.125 inches thick.

ompounds: Latex-modified, Portland-cement-based formulation. compound.

anufacturer's recommendations. ser than 6" from corner and shall be butted tightly together. Maintain

pet lile

warranty, maintenance data. tile with 20 oz. minimum tufted weight. Owner/Architect to select color

wn installation.

grain running in same direction.

imilar penetrations.

09910 - Painting

- 1.1 Provide painting and surface preparation for interior and exterior unfinished surfaces as indicated on schedules and as follows: - Provide repainting and surface preparation at areas of remodeling.
- Provide painting of entire surface where patch painting is required.

- Paint exposed whether or not colors are designated. Painting includes exposed bare and covered pipes and ducts, hangars, exposed steel and iron work, primed metal surfaces of exposed mechanical and electrical equipment, and grilles and diffusers. Do not paint surfaces or materials specifically indicated not to be painted or to remain neutral. Painting is not required on prefinished items (with the exception of grilles and diffusers), operating parts and labels.

1.2 Submit drawdowns, product data, and a 4 foot by 4 foot mockup of each color, prior to paint application.

1.3 Provide extra stock consisting of 1 unopened gallon of each type of paint used.

- 2.1 Manufacturer: Sherwin Williams. Any other manufacturer must be approved by Owner.
- 2.2 Regulations: Compliance with VOC and environmental regulations.
- 2.3 First-line commercial-quality products for all coating systems.

3.1 Prior to submission of Bids, verify that the condition of existing wall surfaces receiving new finishes are acceptable for the wall finish Work indicated, provided they are properly prepared. Proper preparation may include any of the following, skim-coating, spackling, sanding, etc. Notify Architect if conditions are observed which would preclude installation of the finish material indicated, or which would require measures in addition to those noted above.

- 3.2 Provide field-applied mock-ups of each color and finish selected on actual surfaces to be painted.
- 3.2 Test sample area for adhesion for each type of paint.
- 3.3 Remove cover plates and protect hardware and adjacent surfaces.
- 3.4 Sand before painting until smooth and flat and sand between coats.
- 3.5 Apply paint to achieve manufacturer's recommended dry film thicknesses.
- 3.6 Paint entire surface where patch painting is required.
- 3.7 Recoat areas which show bleed-through or defects.
- 3.8 Clean paint spatter from adjacent surfaces and glass.
- 3.9 Touch-up damaged surfaces at completion of construction.

3.10 Schedule: Provide paint systems complying with the following schedule.

INTERIOR PAINT SCHEDULE

- Gypsum Drywall Walls LES, Eggshell 1 coat latex primer

2 coats latex finish - Gypsum Drywall Walls

LSG, Semi Gloss 1 coat latex primer 2 coats latex finish

- Gypsum Drywall Ceilings FL, Flat
- 1 coat latex primer 2 coats latex finish
- Gypsum Drywall Walls and Ceilings in Bathrooms LSG, Semi Gloss
- 1 coat latex primer 2 coats latex finish
- Kitchens and Wet Areas
- Gypsum Drywall to Receive Wallcovering 1 coat latex primer

— Plaster LES, Eggshell 1 coat latex primer 2 coats latex finish

— Plaster LSG, Semi Gloss 1 coat latex primer 2 coats latex finish

- Wood for Painted Finish OSG, Semi Gloss 1 coat interior alkyd enamel undercoat
- 2 coats alkyd enamel - Wood for Transparent Finish
- [Satin] [High] Gloss 1 coat oil base sealer 2 coats oil base varnish finish

- 1.01 SECTION INCLUDES B. Grab bars.

- - 1.04 SUBMITTALS
 - methods.
- PART 2 PRODUCTS 2.01 MANUFACTURERS

 - 2.02 MATERIALS

 - substrate.
 - 2.03 FINISHES
 - enamel.

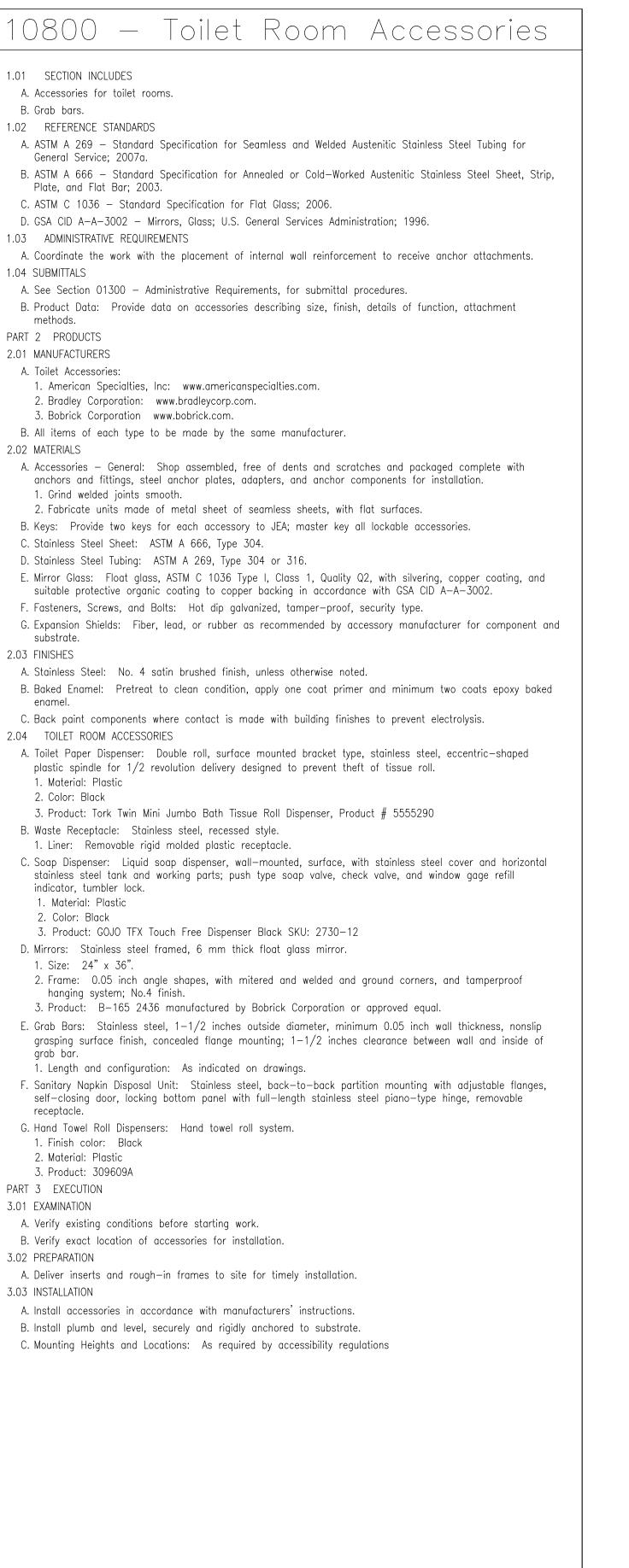
 - 1. Material: Plastic 2. Color: Black

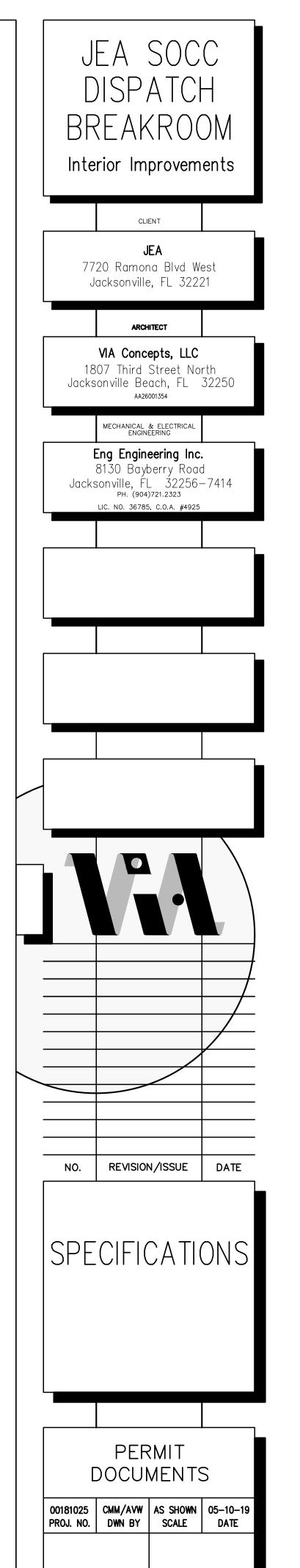
 - 2. Color: Black

 - grab bar.
 - receptacle.

 - PART 3 EXECUTION
 - 3.01 EXAMINATION

 - 3.02 PREPARATION





G-003

