
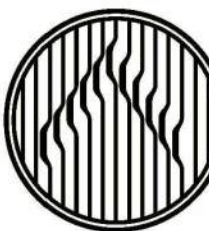


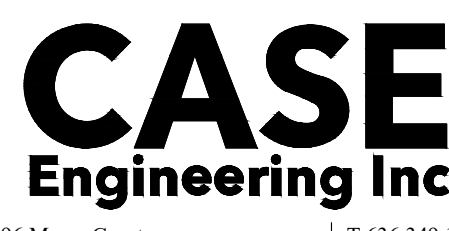
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<p>SUMMARY</p> <p>A. GENERAL AND SUPPLEMENTARY CONDITIONS WITHIN THE SPECIFICATIONS ARE HEREBY INCORPORATED AND BECOME PART OF THESE SPECIFICATIONS AND AS SUCH SHALL BE APPLICABLE TO THE WORK OF THE ELECTRICAL CONTRACT.</p> <p>B. PRIOR TO SUBMISSION OF A BID PROPOSAL, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL CONDITIONS AND LIMITATIONS THAT IMPACT THE WORK OF THIS CONTRACT. NO ADDITIONAL COSTS TO THE OWNER SHALL BE PERMITTED FOR CHANGES TO THE WORK AS A RESULT OF THE CONTRACTORS FAILURE TO VISIT THE SITE PRIOR TO BIDDING AND IDENTIFY ITEMS THAT WERE ABLE TO BE VERIFIED DURING A SITE VISIT PRIOR TO THE SUBMISSION OF A BID PROPOSAL.</p> <p>C. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, RIGGING, AND MISCELLANEOUS ITEMS AS REQUIRED FOR A COMPLETE, OPERATIONAL AND FUNCTIONAL ELECTRICAL INSTALLATION AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THESE SPECIFICATIONS.</p> <p>LANDLORDS REQUIREMENTS</p> <p>A. ALL WORK OF THIS CONTRACT SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE LANDLORD'S CONSTRUCTION CRITERIA AND/OR THE TENANT/LANDLORD AGREEMENT. THIS CONTRACTOR SHALL EXAMINE THE LANDLORD CRITERIA AND THE TENANT/LANDLORD AGREEMENT.</p> <p>B. ALL APPLICABLE REQUIREMENTS OF THE LANDLORDS CONSTRUCTION CRITERIA AND/OR THE TENANT/LANDLORD AGREEMENT DOCUMENTS SHALL BE CONSIDERED PART OF THESE SPECIFICATIONS.</p> <p>EXISTING CONDITIONS</p> <p>A. THE CONTRACT DOCUMENTS ARE BASED ON INFORMATION PROVIDED TO THE CONSULTANT AT THE TIME OF DESIGN. THIS CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.</p> <p>BIDS AND SUBSTITUTIONS</p> <p>A. PRIOR TO SUBMISSION OF A BID PROPOSAL, CONTRACTOR SHALL THOROUGHLY REVIEW THE BID INSTRUCTIONS AND ALL CIVIL, ARCHITECTURAL, STRUCTURAL, AND MEPPF CONSTRUCTION DOCUMENTS.</p> <p>B. SHOULD THE CONTRACTOR WISH TO SUBMIT AN ALTERNATE PRODUCT TO THE MANUFACTURERS NAMED IN THESE SPECIFICATIONS OR ON THE DRAWINGS FOR ANY EQUIPMENT, THE CONTRACTOR SHALL SUBMIT A VOLUNTARY ALTERNATIVE A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO BID, STATING THE MANUFACTURER'S NAME, MODEL NUMBER, WRITTEN, DETAILED PRODUCT DATA.</p> <p>C. WORK PERFORMED OR CONSTRUCTED WITH UNAPPROVED EQUALS IS AT CONTRACTOR'S RISK AND ANY REQUIRED CORRECTION OF WORK INCORPORATING UNAPPROVED EQUALS SHALL BE AT CONTRACTOR'S SOLE COST AND EXPENSE.</p> <p>D. NO SUBSTITUTIONS PERMITTED FOR LIGHTING FIXTURES.</p> <p>QUALITY ASSURANCE</p> <p>A. ALL MATERIALS AND EQUIPMENT SHALL BE NEW.</p> <p>B. PROVIDE PERMITS, INSPECTIONS, FINAL CERTIFICATES OF INSPECTION BY THE AUTHORITY HAVING JURISDICTION, PERMIT AND INSPECTION FEES AND ALL MATERIALS, EQUIPMENT AND LABOR AS REQUIRED FOR A COMPLETE, FUNCTIONAL AND FULLY OPERATIONAL ELECTRICAL SYSTEM.</p> <p>C. THIS CONTRACTOR SHALL PROVIDE ALL MATERIALS AND ACCESSORIES FOR CODE COMPLIANT SUPPORT OF THE ELECTRICAL WORK, WHETHER OR NOT SHOWN ON THE DRAWINGS OR SPECIFIED IN THESE SPECIFICATIONS.</p> <p>D. REQUIREMENTS OF REGULATORY AGENCIES:</p> <ol style="list-style-type: none">PERMITS: ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS AND UTILITY CONNECTIONS REQUIRED.PROVIDE ALL TESTS AND INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.PROVIDE A SIGNED CERTIFICATE OF INSPECTION AT THE COMPLETION OF THE PROJECT. INCLUDE IN OPERATION AND MAINTENANCE MANUALS. <p>E. CODES AND STANDARDS</p> <ol style="list-style-type: none">COMPLY WITH SPECIFIED CODES AND STANDARDS. IF CONFLICT EXISTS BETWEEN CODES OR STANDARDS AND DRAWINGS, PROJECT MANUAL OR ADDENDA REQUIREMENTS, REQUEST CLARIFICATION FROM ARCHITECT/ENGINEER.CONFORM TO THE INSTALLATION RULES AND REGULATIONS OF THE CODES AND STANDARDS LISTED INCLUDING ALL SUBSEQUENTLY PUBLISHED AMENDMENTS THERETO ISSUED PRIOR TO THE DATE OF THE BIDDING DOCUMENTS.CONFORM TO THE REQUIREMENTS OF ALL LOCAL, STATE AND FEDERAL AGENCIES WHICH HAVE AUTHORITY OVER THIS PROJECT.COMPLY WITH THE APPLICABLE EDITION OF THE FOLLOWING CODES AND STANDARDS THAT HAVE BEEN ADOPTED BY AND ARE ENFORCED BY THE AUTHORITY HAVING JURISDICTION:<ol style="list-style-type: none">INTERNATIONAL BUILDING CODE.INTERNATIONAL ENERGY CONSERVATION CODEINTERNATIONAL MECHANICAL CODENATIONAL ELECTRICAL CODEINTERNATIONAL FIRE CODELIFE SAFETY CODE, NFPA 101AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINESALL LOCAL CODES AND ORDINANCES ADOPTED AND ENFORCED BY THE AUTHORITY HAVING JURISDICTION. <p>F. UNDERWRITERS LABORATORIES, INC. (UL) REFERENCED STANDARDS:</p> <ol style="list-style-type: none">ALL EQUIPMENT, APPARATUS, MATERIALS AND SYSTEMS SHALL BE RATED, TESTED, FABRICATED AND INSTALLED WITH THE APPLICABLE INDUSTRY STANDARDS.ALL EQUIPMENT, APPARATUS, MATERIALS AND SYSTEMS SHALL BE UL LISTED AND LABELED. <p>ELECTRICAL CONTRACT DOCUMENTS</p> <p>A. THE ELECTRICAL DRAWINGS (DRAWINGS) AND THE SPECIFICATIONS SHALL TOGETHER FORM A SET OF CONTRACT DOCUMENTS FOR THE ELECTRICAL WORK. NEITHER THE DRAWINGS OR THE SPECIFICATIONS SHALL BE COMPLETE WITHOUT THE OTHER. ANY ITEM SHOWN ON THE DRAWINGS OR SPECIFIED IN THE SPECIFICATIONS SHALL BE CONSIDERED AS IF SHOWN AND SPECIFIED IN BOTH.</p> <p>B. ELECTRICAL DRAWINGS AND SPECIFICATIONS: COMPLY WITH THE FOLLOWING REQUIREMENTS:</p> <ol style="list-style-type: none">CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL DRAWINGS AND SPECIFICATIONS WITHIN THE CONTRACT DOCUMENTS, INCLUDING, BUT NOT NECESSARILY LIMITED TO, GEOTECHNICAL, LANDSCAPE, CIVIL, ARCHITECTURAL, STRUCTURAL, FOOD SERVICE, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS.THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO INDICATE APPROXIMATE LOCATION ONLY OF ELECTRICAL WORK. THE ACTUAL LOCATION OF ANY ELECTRICAL WORK SHALL NOT INTERFERE WITH THE LOCATION, CLEARANCES, ETC. REQUIRED BY THE WORK OF OTHER TRADES.PRIOR TO ROUGH-IN, CONTRACTOR SHALL COORDINATE ALL DEVICE LOCATIONS WITH THE ARCHITECTURAL WALL ELEVATIONS AND THE FINAL, APPROVED FOOD SERVICE SHOP DRAWINGS. <p>C. DEFINITIONS: THE FOLLOWING TERMS ARE USED ON THE ELECTRICAL DRAWINGS AND IN THE SPECIFICATIONS AND SHALL BE DEFINED AS FOLLOWS:</p> <ol style="list-style-type: none">CONTRACTOR - THE ELECTRICAL CONTRACTOR OR ANY OF THEIR SUB-CONTRACTORS.WORK - ALL MATERIAL, LABOR, TRANSPORTATION OF THE ELECTRICAL CONTRACTOR OR ANY OF THEIR SUB-CONTRACTORS.FURNISH - PURCHASE, SUBMIT FOR REVIEW AND APPROVAL, COORDINATE WITH THE CONTRACT DOCUMENTS AND DELIVER TO THE PROJECT SITE IN NEW, UNDAMAGED CONDITION.INSTALL - TO STORE AS DIRECTED, PROTECT FROM DAMAGE, INSTALL IN PLACE, MAKE READY FOR CONNECTION TO THE REQUIRED SERVICE.				<ol style="list-style-type: none">CONNECT - CONNECT TO THE REQUIRED SERVICE AS REQUIRED FOR PROPER OPERATION, TEST FOR PROPER OPERATION AND FUNCTIONALITY IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND REQUIREMENTS SPECIFIED WITHIN THESE SPECIFICATIONS AND TURN OVER TO THE OWNER IN FULL OPERATING CONDITION.PROVIDE - FURNISH, INSTALL AND CONNECT AS DEFINED ABOVE FOR A COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION READY FOR INTENDED USE.FINISHED SPACE - SPACES HAVING WALLS PAINTED OR FINISHED WITH WALL COVERING, LAY-IN OR DRYWALL CEILINGS, AND FINISHED FLOORING MATERIALS. EXAMPLES OF FINISHED SPACES INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, ALL SPACES IN A DWELLING UNIT, OFFICES, LOBBIES, CORRIDORS, TOILET ROOMS, ETC.UNFINISHED SPACES - SPACES WITH UNFINISHED WALLS AND FLOORS AND TYPICALLY ARE NOT EQUIPPED WITH A CEILING. EXAMPLES INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, MECHANICAL ROOMS, ELECTRICAL ROOMS, SERVICE AREAS, ETC.SHALL - ACTION THAT IS REQUIRED WITHOUT OPTION OR QUALIFICATION. <p>SUBMITTALS</p> <p>A. REVIEW OF THE SHOP DRAWINGS IS RENDERED AS A SERVICE ONLY AND SHALL NOT BE CONSIDERED AS A GUARANTEE OF MEASUREMENTS OR OF BUILDING CONDITIONS; NOR SHALL IT BE CONSTRUED AS RELIEVING THE CONTRACTOR'S OF BASIC RESPONSIBILITIES UNDER HIS CONTRACT. ARCHITECT/ENGINEER WILL REVIEW SHOP DRAWINGS ONLY FOR CONFORMANCE WITH DESIGN CONCEPT OF THE PROJECT. REVIEW BY THE ARCHITECT/ENGINEER SHALL NOT BE CONSTRUED:</p> <ol style="list-style-type: none">AS PERMITTING ANY DEPARTURE FROM THE CONTRACT REQUIREMENTS.AS RELIEVING THE CONTRACTOR OF THE RESPONSIBILITY FOR ANY ERROR IN DETAILS, DIMENSIONS OR OTHERWISE THAT MAY EXIST.AS APPROVED DEPARTURES FROM ADDITIONAL DETAILS OR INSTRUCTIONS PREVIOUSLY FURNISHED BY THE ARCHITECT/ENGINEER. <p>B. SHOP DRAWINGS:</p> <ol style="list-style-type: none">THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND DESCRIPTIVE LITERATURE OF EQUIPMENT TO BE FURNISHED UNDER THIS CONTRACT. DRAWINGS SHALL STATE CAPACITIES, SIZES, ETC., OF ALL EQUIPMENT AND SHALL BE CERTIFIED. SEE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS FOR ADDITIONAL REQUIREMENTS.PROVIDE SUBMITTALS FOR LIGHTING FIXTURES, PANELBOARDS, LIGHTING CONTROL DEVICES, CONTACTORS, WIRING DEVICES, POWER SYSTEM STUDY. <p>C. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK REQUIRING SUBMITTAL AND REVIEW OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNTIL THE RESPECTIVE SUBMITTALS HAS BEEN APPROVED BY THE ENGINEER.</p> <p>ELECTRICAL COORDINATION DRAWINGS</p> <p>N. PREPARE ELECTRICAL COORDINATION DRAWINGS AS REQUIRED BY THE WORK AND AS DIRECTED BY THE GENERAL CONTRACTOR.</p> <p>O. MEET WITH REPRESENTATIVES OF THE OTHER DISCIPLINES/TRADES TO COORDINATE THE ELECTRICAL WORK WITH THE WORK OF EACH DISCIPLINE AND TO OBTAIN INFORMATION REGARDING THEIR WORK THAT IS TO BE INDICATED ON THE COORDINATION DRAWINGS.</p> <p>POWER SYSTEM STUDIES - GENERAL</p> <p>A. PROVIDE COMPUTER-BASED, POWER SYSTEM STUDIES THAT INCLUDES:</p> <ol style="list-style-type: none">A SHORT CIRCUIT STUDY TO DETERMINE THE MINIMUM INTERRUPTING CAPACITY OF CIRCUIT PROTECTIVE DEVICES;AN ARC-FLASH STUDY TO DETERMINE THE ARC-FLASH HAZARD DISTANCE AND THE INCIDENT ENERGY TO WHICH PERSONNEL COULD BE EXPOSED DURING WORK ON OR NEAR ELECTRICAL EQUIPMENT. <p>B. STUDIES SHALL BE PERFORMED UTILIZING COMPUTER PROGRAMS THAT ARE DISTRIBUTED NATIONALLY AND ARE IN WIDE USE. SOFTWARE ALGORITHMS SHALL COMPLY WITH REQUIREMENTS OF STANDARDS AND GUIDES SPECIFIED IN THIS SECTION. MANUAL CALCULATIONS ARE UNACCEPTABLE.</p> <p>C. SOFTWARE DEVELOPERS: SUBJECT TO COMPLIANCE WITH SPECIFIED REQUIREMENTS, PERFORM STUDIES UTILIZING SOFTWARE PRODUCTS BY ONE OF THE FOLLOWING:</p> <ol style="list-style-type: none">EASY POWERPOWER ANALYTICS CORPORATIONSKM SYSTEMS ANALYSIS <p>D. ALL STUDIES SHALL BE BASED ON THE DEVICE CHARACTERISTICS OF ACTUAL EXISTING COMPONENTS AND THE NEW COMPONENTS BEING INSTALLED.</p> <p>E. PROVIDE ALL FIELD LABOR AS REQUIRED TO OBTAIN ALL DATA NECESSARY TO CONDUCT THE STUDIES SPECIFIED HEREIN.</p> <p>F. SUBMIT STUDIES FOR REVIEW BEFORE SUBMITTING THE SYSTEM OVERCURRENT PROTECTIVE DEVICE AND POWER DISTRIBUTION EQUIPMENT SUBMITTALS. SUBMIT STUDY REPORT FOR REVIEW PRIOR TO RECEIVING FINAL APPROVAL OF THE OVERCURRENT ROTECTIVE DEVICE AND DISTRIBUTION EQUIPMENT SUBMITTALS.</p> <p>G. WHERE FORMAL COMPLETION OF STUDIES WILL CAUSE A DELAY IN THE ORDERING AND MANUFACTURING OF OVERCURRENT PROTECTIVE DEVICES AND POWER DISTRIBUTION EQUIPMENT, OBTAIN APPROVAL FROM ENGINEER FOR PRELIMINARY SUBMITTAL OF SUFFICIENT STUDY DATA TO ENSURE THAT THE SELECTION OF DEVICES AND ASSOCIATED CHARACTERISTICS IS SATISFACTORY AND IN COMPLIANCE WITH THE RESULTS OF THE STUDIES BEING PERFORMED.</p> <p>SHORT CIRCUIT STUDY</p> <p>A. PROVIDE A COMPUTER-BASED, SHORT CIRCUIT STUDY TO DETERMINE THE MINIMUM INTERRUPTING CAPACITY OF CIRCUIT PROTECTIVE DEVICES.</p> <p>B. FOR NEW EQUIPMENT, USE CHARACTERISTICS SUBMITTED UNDER THE PROVISIONS OF ACTION SUBMITTALS AND INFORMATION SUBMITTALS FOR THIS PROJECT.</p> <p>C. FOR EXISTING RELOCATED EQUIPMENT AND EXISTING EQUIPMENT THAT IS EXISTING TO REMAIN, OBTAIN REQUIRED ELECTRICAL DISTRIBUTION SYSTEM DATA BY FIELD INVESTIGATION AND SURVEYS, CONDUCTED BY QUALIFIED TECHNICIANS AND ENGINEERS. THE QUALIFICATIONS OF TECHNICIANS AND ENGINEERS SHALL BE QUALIFIED AS DEFINED BY NFPA 70E.</p> <p>D. GATHER AND TABULATE ALL REQUIRED DATA TO SUPPORT THE SHORT-CIRCUIT STUDY. COMPLY WITH RECOMMENDATIONS IN IEEE 551 AS TO THE AMOUNT OF DETAIL THAT IS REQUIRED TO BE ACQUIRED IN THE FIELD.</p> <p>E. BEGIN SHORT-CIRCUIT CURRENT ANALYSIS AT THE SERVICE, EXTENDING DOWN TO THE SYSTEM OVERCURRENT PROTECTIVE DEVICES AS FOLLOWS:</p> <ol style="list-style-type: none">TO NORMAL SYSTEM LOW-VOLTAGE LOAD BUSES WHERE FAULT CURRENT IS 10 KA OR LESS. <p>ARC FLASH HAZARD STUDY</p> <p>A. PROVIDE A COMPUTER-BASED, ARC-FLASH HAZARD STUDY TO DETERMINE THE ARC-FLASH HAZARD DISTANCE AND THE INCIDENT ENERGY TO WHICH PERSONNEL COULD BE EXPOSED DURING WORK ON OR NEAR EXISTING AND NEW ELECTRICAL EQUIPMENT.</p> <p>B. ELECTRICAL SURVEY DATA: GATHER AND TABULATE ALL REQUIRED INPUT DATA TO SUPPORT STUDY. COMPLY WITH RECOMMENDATIONS IN IEEE 1584 AND NFPA 70E AS TO THE AMOUNT OF DETAIL THAT IS REQUIRED TO BE ACQUIRED IN THE FIELD.</p> <p>C. FOR NEW EQUIPMENT, USE CHARACTERISTICS SUBMITTED UNDER THE PROVISIONS OF ACTION SUBMITTALS AND INFORMATION SUBMITTALS FOR THIS PROJECT.</p> <p>D. FOR EXISTING EQUIPMENT, WHETHER OR NOT RELOCATED, OBTAIN REQUIRED ELECTRICAL DISTRIBUTION SYSTEM DATA BY FIELD INVESTIGATION AND SURVEYS, CONDUCTED BY QUALIFIED TECHNICIANS AND ENGINEERS.</p> <p>E. HAZARD LABELS SHALL HAVE AN ORANGE HEADER WITH THE WORDING, "WARNING, ARC-FLASH HAZARD," AND SHALL INCLUDE THE FOLLOWING INFORMATION TAKEN DIRECTLY FROM THE ARC-FLASH HAZARD ANALYSIS:</p>				<ol style="list-style-type: none">LOCATION DESIGNATION.NOMINAL VOLTAGE.FLASH PROTECTION BOUNDARY.HAZARD RISK CATEGORY.INCIDENT ENERGY.WORKING DISTANCE.ENGINEERING REPORT NUMBER, REVISION NUMBER, AND ISSUE DATE. <p>F. ARC FLASH HAZARD WARNING LABELS SHALL BE A 3.5-BY-5-INCH THERMAL TRANSFER LABEL OF HIGH-ADHESION POLYESTER FOR EACH WORK LOCATION INCLUDED IN THE ANALYSIS.</p> <p>G. LABELS SHALL BE MACHINE PRINTED, WITH NO FIELD-APPLIED MARKINGS.</p> <p>RECORD DOCUMENTS</p> <p>A. DURING THE PROGRESS OF THE WORK, CONTRACTOR SHALL MAINTAIN A CURRENT (DAILY) AS-BUILT SET OF THE DRAWINGS AND SPECIFICATIONS, INDICATING THEREON ALL WORK INSTALLED AT VARIANCE WITH SUCH CONTRACT DOCUMENTS INCLUDING, WITHOUT LIMITATION, WORK COVERED BY ADDENDA, FIELD WORK ORDERS, CHANGE ORDERS, AND ENGINEERS</p> <p>B. CONTRACTOR SHALL PROVIDE THE TENANT WITH THE FINAL AS-BUILT SET OF DRAWINGS AT THE COMPLETION OF THE WORK.</p> <p>COORDINATION WITH LANDLORD AND UTILITY COMPANIES</p> <p>A. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL COORDINATE THE WORK OF THIS CONTRACT WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE AND AUTHORIZED REPRESENTATIVES OF EACH SERVING UTILITY THAT WILL PROVIDE SERVICE TO THIS SITE, INCLUDING BUT NOT NECESSARILY LIMITED TO, ELECTRIC, TELEPHONE AND CABLE/SATELLITE TV SERVICE PROVIDERS.</p> <p>B. CONTRACTOR SHALL MEET WITH AUTHORIZED REPRESENTATIVES OF THE LANDLORD AND EACH UTILITY TO DISCUSS UTILITY COMPANY SCOPE OF WORK, CONTRACTOR SCOPE OF WORK, POINT OF SERVICE PICK-UP, DETAILS REGARDING SYSTEM INTERFACE, UTILITY COMPANY STANDARDS TO BE COMPLIED WITH, ETC.</p> <p>COORDINATION WITH OTHER TRADES</p> <p>A. ELECTRICAL WORK SHALL BE INSTALLED SO AS TO NOT CONFLICT WIH THE WORK OF OTHER TRADES.</p> <p>B. SET ALL SLEEVES AND CUT AND PATCH ALL MISCELLANEOUS HOLES NECESSARY FOR THE CONVENIENT AND PROPER INSTALLATION OF THE WORK.</p> <p>C. CONFER WITH THE OTHER CONTRACTORS REGARDING THE LOCATION AND SIZE OF PIPES, EQUIPMENT, DUCTS, OPENINGS AND SPECIAL ARCHITECTURAL TREATMENTS IN ORDER THAT THERE MAY BE NO INTERFERENCES BETWEEN THE INSTALLATION OR THE PROGRESS OF THE WORK OF ANY CONTRACTOR ON THE PROJECT.</p> <p>D. ALL LINE VOLTAGE WIRING AND FINAL CONNECTIONS TO COMPLETE MECHANICAL SYSTEMS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.</p> <p>E. PROVIDE FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT FURNISHED/PROVIDED BY OTHERS, (HVAC EQUIPMENT, PLUMBING EQUIPMENT, COMMERCIAL KITCHEN EQUIPMENT, ETC.</p> <p>F. COORDINATE THE NEMA CONFIGURATION OF THE RECEPTACLE TO BE PROVIDED WITH THE NEMA PLUG CONFIGURATION OF THE CORD/PLUG ASSEMBLY FURNISHED WITH THE EQUIPMENT TO BE INSTALLED. PROVIDE RECEPTACLES HAVING A NEMA CONFIGURATION THAT MATCHES THE NEMA CONFIGURATION OF THE PLUG ON THE EQUIPMENT.</p> <p>G. PROVIDE FINAL COORDINATION OF AVAILABLE POWER (VOLTAGE/PHASE) WITH OTHER TRADES PRIOR TO THEIR ORDERING OF EQUIPMENT.</p> <p>TEMPORARY POWER</p> <p>A. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY POWER AND LIGHTING TO ALLOW ALL CONTRACTORS AND SUB-CONTRACTORS TO PERFORM THE WORK OF THEIR CONTRACTS.</p> <p>B. PRIOR TO THE SUBMISSION OF A BID PROPOSAL, THE CONTRACTOR SHALL CONTACT THE GENERAL CONTRACTOR TO COORDINATE THE TYPE OF EQUIPMENT TO BE UTILIZED DURING THE WORK OF THIS CONTRACT</p> <p>SEQUENCING AND SCHEDULING</p> <p>A. COORDINATE ELECTRICAL EQUIPMENT INSTALLATION WITH OTHER BUILDING COMPONENTS AND THE PROJECT PHASING PLAN.</p> <p>UTILITY COMPANY METERING EQUIPMENT</p> <p>A. PROVIDE ALL EQUIPMENT REQUIRED FOR ELECTRICITY METERING BY UTILITY COMPANY.</p> <p>B. ELECTRICAL SERVICE CONNECTIONS: COORDINATE WITH UTILITY COMPANIES AND COMPONENTS THEY FURNISH AS FOLLOWS:</p> <ol style="list-style-type: none">COMPLY WITH REQUIREMENTS OF UTILITIES PROVIDING ELECTRICAL POWER SERVICES.COORDINATE INSTALLATION AND CONNECTION OF UTILITIES AND SERVICES, INCLUDING PROVISION FOR ELECTRICITY-METERING COMPONENTS. <p>C. METERS SHALL BE FURNISHED BY UTILITY COMPANY; INSTALLED BY ELECTRICAL CONTRACTOR.</p> <p>D. METER SOCKETS: COMPLY WITH REQUIREMENTS OF ELECTRICAL-POWER UTILITY COMPANY.</p> <p>E. INSTALL ALL CONDUITS AND EQUIPMENT ACCORDING TO UTILITY COMPANY'S WRITTEN REQUIREMENTS. PROVIDE EMPTY CONDUITS FOR METERING LEADS AND EXTEND GROUNDING CONNECTIONS AS REQUIRED BY UTILITY COMPANY.</p> <p>FIRE STOPPING</p> <p>A. PROVIDE FIRE STOPPING FOR PENETRATIONS BY CONDUIT OR CABLES AND OTHER EQUIPMENT THROUGH FIRE-RATED VERTICAL BARRIERS (WALLS AND PARTITIONS), HORIZONTAL BARRIERS (FLOOR/CEILING ASSEMBLIES) AND VERTICAL SHAFT WALLS AND PARTITIONS.</p> <p>B. FIRESTOP SYSTEM INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF ASTM E 814 OR UL 1479 TESTED ASSEMBLIES THAT PROVIDE A FIRE RATING EQUAL TO OR GREATER THAN THAT OF THE CONSTRUCTION BEING PENETRATED.</p> <p>SEISMIC RESTRAINT</p> <p>A. PROVIDE SEISMIC RESTRAINT FOR ELECTRICAL WORK AND SYSTEMS AND EQUIPMENT IN STRICT ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.</p> <p>B. SUBMIT ALL REQUIRED DETAILS TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL.</p> <p>CUTTING & PATCHING</p> <p>A. CORE-DRILL OR SAW-CUT EXISTING FLOORS, WALLS, ROOF, ETC., AS REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL WORK. STRUCTURAL COMPONENTS, INCLUDING BUT NOT NECESSARILY LIMITED TO, COLUMNS, BEAMS, GIRDIRS, PLATES OR JOISTS SHALL NOT BE CUT.</p> <p>B. PATCH SURROUNDING AREAS FLUSH WITH ADJACENT SURFACES AND PREPARE TO RECEIVE SPECIFIED FINISHES. PATCH AND REPAIR ROOF TO MATCH EXISTING ROOFING SYSTEM. ALL ROOF WORK SHALL BE PERFORMED TO MEET THE WARRANTY REQUIREMENTS OF THE EXISTING ROOFING SYSTEM.</p> <p>GROUNDING</p> <p>A. PROVIDE ELECTRICAL SYSTEM AND EQUIPMENT GROUNDING IN ACCORDANCE WITH APPLICABLE N.E.C. REQUIREMENTS.</p> <p>B. PROVIDE AN INSULATED EQUIPMENT GROUND CONDUCTOR WITHIN ALL FEEDERS AND</p>				<p>BRANCH CIRCUITS.</p> <p>C. PROVIDE AN ISOLATED GROUND CONDUCTOR IN ADDITION TO THE EQUIPMENT GROUNDING CONDUCTOR IN SELECT BRANCH CIRCUITS AS NOTED ON THE DRAWINGS.</p> <p>D. PROVIDE A #6 AWG GREEN INSULATED GROUNDING CONDUCTOR FROM THE GROUND BAR AT TELEPHONE TERMINAL BOARD TO THE ELECTRICAL SERVICE GROUND.</p> <p>E. PROVIDE A COPPER GROUNDING BAR AT THE TELEPHONE TERMINAL BACKBOARD. GROUNDING BAR SHALL BE ¼ INCH X 4 INCHES X 12 INCHES, PRE-DRILLED FOR CONDUCTOR TERMINATIONS, WITH NON-METALLIC STAND-OFF BRACKETS WITH INSULATORS. CHATSWORTH PRODUCTS 10622-012 OR APPROVED EQUAL.</p> <p>EQUIPMENT IDENTIFICATION</p> <p>A. PROVIDE EQUIPMENT LABELS ON PANELBOARDS, DISCONNECT SWITCHES, CONTACTORS, CONTROLS, ETC. EQUIPMENT LABELS SHALL BE ENGRAVED PHENOLIC RESIN NAMEPLATES ATTACHED TO ENCLOSURE WITH MECHANICAL FASTENERS. SELF-ADHESIVE NAMEPLATES ARE NOT ACCEPTABLE. LETTERING SHALL BE 1/2" HIGH, BLACK TEXT ON WHITE BACKGROUND.</p> <p>B. THE COVERS OF ALL OUTLET AND JUNCTION BOXES INSTALLED ABOVE CEILINGS AND INSTALLED EXPOSED IN UNFINISHED SPACES SHALL BE LABELED TO IDENTIFY THE SERVING PANEL, VOLTAGE, PHASE AND CIRCUIT NUMBERS CONTAINED WITHIN THE BOX. LABEL SHALL BE LEGIBLY HANDWRITTEN WITH BLACK, FELT TIP PERMANENT MARKER.</p> <p>C. THE COVER PLATES OF ALL WIRING DEVICES SHALL BE LABELED TO IDENTIFY THE SERVING PANEL AND THE CIRCUITS SERVING THE DEVICE. LABELS SHALL BE MACHINE PRINTED, BLACK TEXT ON A CLEAR, SELF ADHESIVE LABEL.</p> <p>CONDUIT AND FITTINGS</p> <p>A. ALL INTERIOR AND EXTERIOR CONDUITS SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH N.E.C. REQUIREMENTS.</p> <p>B. MINIMUM CONDUIT SIZE SHALL BE ¾" TRADE SIZE. SWITCH LEGS SHALL BE ½" TRADE SIZE.</p> <p>C. WITHIN INTERIOR FINISHED AREAS, ALL CONDUIT SHALL BE INSTALLED CONCEALED WITHIN NEW AND EXISTING WALLS AND ABOVE NEW AND EXISTING CEILINGS.</p> <p>D. CONDUIT INSTALLED WITHIN THE INTERIOR OF THE BUILDING SHALL BE GALVANIZED ELECTRICAL METALLIC TUBING (EMT). CONDUIT FITTINGS FOR INDOOR EMT CONDUITS SHALL BE CAST METAL, COMPRESSION TYPE.</p> <p>E. EMT SHALL BE USED FOR INTERIOR FEEDERS AND BRANCH CIRCUITS INSTALLED CONCEALED ABOVE CEILINGS OR CONCEALED WITHIN EXISTING AND NEW INTERIOR PARTITIONS.</p> <p>F. CONDUITS INSTALLED EXPOSED ON THE EXTERIOR OF THE BUILDING SHALL BE GALVANIZED RIGID STEEL. FITTINGS SHALL BE THREADED TYPE.</p> <p>G. CONDUITS INSTALLED UNDER SLAB ON GRADE CONSTRUCTION SHALL BE RIGID NON-METALLIC (RNC), SCHEDULE 40 PVC. RNC COMPLYING WITH NEMA TC 2 AND UL 651 UNLESS OTHERWISE INDICATED. FITTINGS FOR RIGID NON-METALLIC CONDUIT SHALL COMPLY WITH NEMA TC 3; MATCH TO CONDUIT TYPE AND MATERIAL.</p> <p>H. PROVIDE CONDUIT EXPANSION FITTINGS IN ALL CONDUIT RUNS THAT EXTEND ACROSS BUILDING EXPANSION JOINTS AND WHERE MOVEMENT MAY BE ENCOUNTERED.</p> <p>I. CONDUIT SHALL BE SUPPORTED FROM STRUCTURE ONLY.</p> <p>J. PVC CONDUIT SHALL ONLY BE USED BELOW GRADE.</p> <p>K. PROVIDE FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO VIBRATING EQUIPMENT. MAXIMUM CONDUIT LENGTH SHALL BE 36 INCHES.</p> <p>L. PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO VIBRATING EQUIPMENT IN WET OR OUTDOOR LOCATIONS. MAXIMUM CONDUIT LENGTH SHALL BE 36 INCHES.</p> <p>M. PROVIDE FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO RECESSED LIGHT FIXTURES (FIXTURE WHIPS). MAXIMUM CONDUIT LENGTH SHALL BE 72 INCHES.</p> <p>N. PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR FINAL ELECTRICAL CONNECTIONS TO FOOD SERVICE EQUIPMENT.</p> <p>O. CONDUITS THAT EXTEND UP TO THE ROOF LEVEL TO SERVE ROOF MOUNTED MECHANICAL EQUIPMENT INSTALLED ON A CURB SHALL BE ROUTED WITHIN THE EQUIPMENT CURB. COORDINATE ELECTRICAL WORK WITH MECHANICAL EQUIPMENT INSTALLER.</p> <p>P. PROVIDE CONDUIT SEALING FITTINGS IN ALL CONDUITS THAT EXTEND FROM NON-REFRIGERATED SPACES TO REFRIGERATED SPACES.</p> <p>Q. ALL CONDUITS INSTALLED IN ASSOCIATION WITH THE WALK-IN COOLER FREEZER SHALL BE INSTALLED IN ACCORDANCE WITH THE WALK-IN MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS. COORDINATE ALL CONDUIT INSTALLATION WITH WALK-IN EQUIPMENT INSTALLER.</p> <p>R. ACCEPTABLE MANUFACTURERS FOR GALVANIZED RIGID CONDUIT, EMT, FLEXIBLE METAL CONDUITS AND LIQUID-TIGHT FLEXIBLE METAL CONDUITS SHALL BE ALLIED, REPUBLIC, WHEATLAND, ELECTRI-FLEX AND ANACONDA.</p> <p>S. ACCEPTABLE MANUFACTURERS FOR CONDUIT FITTINGS SHALL BE THOMAS AND BETTS OR APPROVED EQUAL.</p>			



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JERSEY MIKES - KANSAS CITY

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KANSAS CITY, MO 64154

#	Description	Date
4	Client Comments	12/07/2023

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MATTHEW E. CASE
NUMBER
17-2017600282
PROFESSIONAL ENGINEER

12/07/2023

FOR PERMIT

Client Approval

ELECTRICAL SPECIFICATIONS

Project # 43423-M003

Issue Date 07/10/2023

Scale As indicated

Drawn by TS

Checked by MTJ

E1.1



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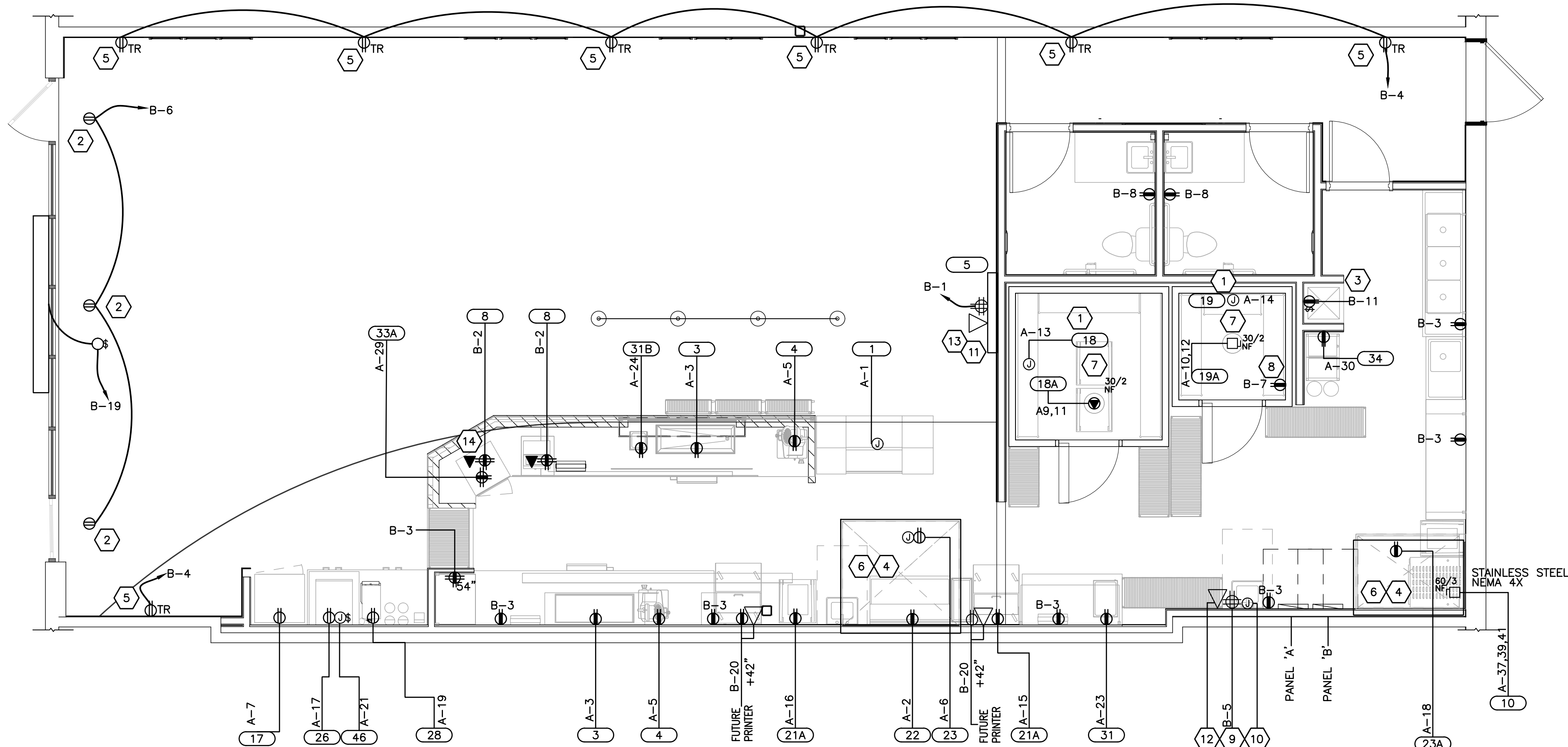
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1
E2.1

ELECTRICAL POWER PLAN

SCALE: 1/4" = 1'-0"

EQUIPMENT SCHEDULE

PLAN MARK	QTY	EQUIPMENT SERVED	LOAD	VOLT/ PHASE	FED BY	DISC BY	MCA	MOC PD	FEEDER	MANUFACTURER	MODEL	NEMA	ROUGH-IN	REMARKS
1	1	6' MEATCASE	1.04KVA	120/1	PANEL A	SWITCH	8.7A	20A	(2)#12,#12G 3/4"C	HOWARD MCCRAY	SC-CDS34N-6-JM			
3	2	4' DROP IN COLD UNIT	0.90KVA	120/1	PANEL A	SWITCH	7.5A	20A	(2)#12,#12G 3/4"C	DELFIELD	N8148-EFN		REC @ 18" A.F.F.	REC @ 18" A.F.F.
4	2	SLICER	0.42KVA	120/1	PANEL A	CKT	3.5A	20A	(2)#12,#12G 3/4"C	BIZBERA	GSP-H33 W/LIFT			
5	1	MENU BOARD	#VALUE!	120/1	PANEL A	BUILT IN	N/A	20A	(2)#12,#12G 3/4"C	JMFS	JMFS			
8	1	CASH REGISTER	0.60KVA	120/1	PANEL A	CKT	5.0A	20A	(2)#12,#12G 3/4"C	INFOSOFT	UP700		DEDICATED GROUND, REC @ 18" A.F.F.	DEDICATED GROUND, REC @ 18" A.F.F.
10	1	BREAD OVEN	10.45KVA	208/3	PANEL A	SWITCH	29.0A	40A	(3)#8,#10G 3/4"C	NUVU	QB 5/10 AUTOMIST			AUTOMIST REQUIRED
17	1	1 DOOR PEPSI COOLER	0.86KVA	120/1	PANEL A	CKT	7.2A	20A	(2)#12,#12G 3/4"C	PEPSI	1160			
18	1	WALK IN COOLER	1.80KVA	120/1	PANEL A	BUILT IN	15.0A	20A	(2)#12,#12G 3/4"C	NORLAKE	JM7S88-CR-J-36-CP			
18A	1	COOLER CAPSUL PACK	1.93KVA	208/1	PANEL A	BUILT IN	9.3A	20A	(2)#12,#12G 3/4"C	NORLAKE	CPB075JC-S-4-EV	6-15P		
19	1	STEP IN FREEZER	1.80KVA	120/1	PANEL A	BUILT IN	15.0A	20A	(2)#12,#12G 3/4"C	NORLAKE	JMF7766-CL-J-36-CP			
19A	1	FREEZER CAPSUL PACK	3.10KVA	208/1	PANEL A	BUILT IN	14.9A	15A	(2)#12,#12G 3/4"C	NORLAKE	CPF-100JC-S-4-EV	6-15P		CONFIRM WITH ARCH
21A	2	SANDWICH UNIT	0.86KVA	120/1	PANEL A	BUILT IN	7.2A	15A	(2)#12,#12G 3/4"C	ENTRÉE	JM-ST-27E-2DX	5-15P		3
22	1	GRILLE	0.72KVA	120/1	PANEL A	BUILT IN	6.0A	20A	(2)#12,#12G 3/4"C	IMPERIAL	IR-G48T-XB-JMII			CONFIRM NATURAL/LP GAS
23	1	EXHAUST HOOD/FIRE SYSTEM	0.60KVA	120/1	PANEL A	BUILT IN	5.0A	20A	(2)#12,#12G 3/4"C	CAPTIVE AIRE	ANSUL			3
23A	1	CONDENSATE HOOD	0.86KVA	120/1	PANEL A	SWITCH	7.2A	20A	(2)#12,#12G 3/4"C	CAPTIVE AIRE	5424VHB			1, 5
26	1	DRINK DISPENSER & ADAPTER KIT	1.12KVA	120/1	PANEL A	SWITCH	9.3A	20A	(2)#12,#12G 3/4"C	PEPSI	DISPENSER: IDC255 ADAPTOR: 80002957		REC @ 42" A.F.F.	
28	1	ICED TEA BREWER/DISPENSER	1.73KVA	120/1	PANEL A	CKT	14.4A	20A	(2)#12,#12G 3/4"C	BUNN	TB3Q		REC @ 42" A.F.F.	
31	1	RECESSED BACON WARMER	0.70KVA	120/1	PANEL A	BUILT IN	5.8A	20A	(2)#12,#12G 3/4"C	HOSHIZAKI	71001 MODEL 1001		REC @ 42" A.F.F.	
31B	1	RECESSED BACON WARMER	0.42KVA	120/1	PANEL A	CKT	3.5A	20A	(2)#12,#12G 3/4"C	MARSHALL	JM8001K	5-15P		
33A	1	UNDER-COUNTER REFRIDGERATOR	0.31KVA	120/1	PANEL A	CKT	2.6A	20A	(2)#12,#12G 3/4"C	HOSHIZAKI	CZ3N-1	5-15P		
34	1	BAG IN BOX SYSTEM	0.50KVA	120/1	PANEL A	CKT	4.2A	20A	(2)#12,#12G 3/4"C	PEPSI	PEPSI			REC @ 80" A.F.F.
46	1	ICE MAKER	1.27KVA	120/1	PANEL A	CKT	10.6A	20A	(2)#12,#12G 3/4"C	HOSHIZAKI	KM-520MAJ			REC @ 48" A.F.F.

POWER PLAN KEYED NOTES

- PROVIDE 120V. CONNECTION FOR LIGHTS, DOOR HEATER, FAN, AND/OR DRAIN LINE HEATER. PROVIDE CONNECTIONS PER MANUFACTURERS REQUIREMENTS AND N.E.C. ARTICLE 300-7.
- PROVIDE RECEPTACLE HORIZONTALLY MOUNTED WITHIN 18 INCHES OF THE TOP OF THE WINDOW AS REQUIRED TO MEET THE N.E.C. SHOW WINDOW REQUIREMENTS.
- PROVIDE A MOTOR RATED SWITCH AS DISCONNECTING MEANS FOR RE-CIRC PUMP LOCATED ABOVE CEILING. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. RE-CIRC PUMP SHALL BE CONTROLLED BY AUTOMATIC TIMER KIT PROVIDED BY MANUFACTURER. CIRCUIT PER MANUFACTURER RECOMMENDATIONS. EC TO COORDINATE LOCATION WITH PLUMBING CONTRACTOR
- EXHAUST FAN HOOD. CONTRACTOR SHALL PROVIDE "SHUNT-TRIP" CIRCUIT BREAKERS ON ALL ELECTRICAL EQUIPMENT UNDER THE HOOD. FAN(S) INTERLOCK AND SHUNT-TRIP SHALL BE WIRED THRU HOOD FIRE SUPPRESSION SYSTEM CONTROL. SEE MECHANICAL HOOD DRAWINGS FOR MORE INFORMATION AND ADDITIONAL REQUIREMENTS.
- FINAL LOCATION OF TAMPER-RESISTANT OUTLETS IN DINING SHALL BE DETERMINED BY OWNER.
- HOOD SYSTEM CONTROLLER. VERIFY EXACT LOCATION WITH EQUIPMENT SUPPLIER. COORDINATE ALL WIRING REQUIREMENTS AND UNIT INTERLOCKS WITH MECHANICAL HOOD DRAWINGS
- CIRCULATION OF AIR FROM WARMER TO COLDER SECTIONS OF INTERIOR RACEWAY SYSTEM EXPOSED TO WIDELY DIFFERENT TEMPERATURES SHALL BE PREVENTED. SEAL AS REQUIRED PER N.E.C. 300.7(A). PROVIDE EXPANSION JOINTS FOR CONDUIT AS REQUIRED TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION. .
- MOUNT WP, GFCI DUPLEX RECEPTACLE IN FREEZER BELOW EVAPORATOR FOR CORD & PLUG CONNECTION OF HEAT TRACE; PROVIDE "GARD-I-N #W51-24P" HEAT TRACE (24'-0"); WRAP FREEZER DRAINPIPE FROM EVAP IN FREEZER TO HUB DRAIN OR EXIT OF FREEZER AS REQUIRED.
- PROVIDE DEDICATED QUAD RECEPTACLE AT TELEPHONE/DATA/MODEM SHELF ON NEW SOFFIT. MOUNT 6" BELOW CEILING. COORDINATE EXACT LOCATION.
- FIELD VERIFY LOCATION OF EXISTING 1" CONDUIT WITH PULL-STRING TO LANDLORD TELEPHONE DEMARC.
- CAT6 DATA OUTLET. PROVIDE 1/2" CONDUIT WITH CAT6 CABLE TO TELEPHONE/DATA/TV SHELF.
- PROVIDE CAT6 DATA OUTLET AT TELEPHONE/DATA/TV/MODEM SHELF ON NEW SOFFIT. MOUNT 6" BELOW CEILING. COORDINATE EXACT LOCATION.
- EC TO COORDINATE MENUBOARD PLACEMENT AND POWER/DATA REQUIREMENTS WITH OWNER AND RELEVANT CONTRACTORS.
- EC TO PROVIDE GFI QUAD RECEPTACLE AND DATA FOR FUTURE POS LOCATION. COORDINATE EXACT LOCATION WITH GENERAL CONTRACTOR AND OWNER REPRESENTATIVE.

KITCHEN RECEPTACLE NOTES

- ALL KITCHEN SINGLE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER NEC SECTION 210.8 (B) (1)-(10).
- ALL GFCI RECEPTACLES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION OR A GFCI CIRCUIT BREAKER OR A DEAD FRONT GFI DEVICE INSTALLED IN A READILY ACCESSIBLE LOCATION SHALL USED TO FEED THE CIRCUIT NOTED.
- ALL 125V, 15A AND 20A CIRCUITS TO KITCHEN EQUIPMENT SHALL BE FED WITH A DEDICATED NEUTRAL WIRE.

POWER PLAN GENERAL ELECTRICAL NOTES

- EXACT LOCATION, CUT-OUTS AND MOUNTING HEIGHTS FOR WIRING DEVICES IN CASEWORK SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
- VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO BID. NOTIFY OWNER OF ANY DISCREPANCIES. IF ACCEPTABLE TO OWNER'S REPRESENTATIVE, EXISTING EQUIPMENT MAY BE RE-USED. IF NOT ACCEPTABLE, FURNISH AND INSTALL NEW.
- ALL RECEPTACLES, DATA AND TELEPHONE OUTLETS ARE TO BE MOUNTED AT +18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
- PRIOR TO CONNECTION EC SHALL VERIFY THE VOLTAGE AND AMPERAGE REQUIREMENTS OF ALL EQUIPMENT DELIVERED TO THE SITE. EC SHALL NOTIFY OWNER OF ANY DIFFERENCE.
- EC TO VERIFY PLUG TYPE, AMPERAGE, VOLTAGE, AND LOCATION PRIOR TO BID AND ROUGH IN.
- EC TO VERIFY ALL POWER REQUIREMENTS WITH EQUIPMENT MANUFACTURER. PROVIDE HACR BREAKERS AS REQUIRED.
- WHEN POSSIBLE, OUTLETS TO BE MOUNTED ABOVE BACKSPASH FOR COUNTER TOP EQUIPMENT AND BELOW COUNTER FOR UNDER COUNTER EQUIPMENT. PROVIDE POWER BELOW COUNTER FOR FRONT SERVING LINE COUNTER TOP EQUIPMENT. SEE ARCHITECTURAL DRAWINGS FOR COUNTER TOP HEIGHTS.



#	Description	Date
4	Client Comments	12/07/2023

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Client Approval

ELECTRICAL
POWER PLAN

Project #	43423-M003
Issue Date	07/10/2023
Scale	As indicated
Drawn by	TS
Checked by	MTJ

E2.1



LUMINAIRE SCHEDULE NOTES:

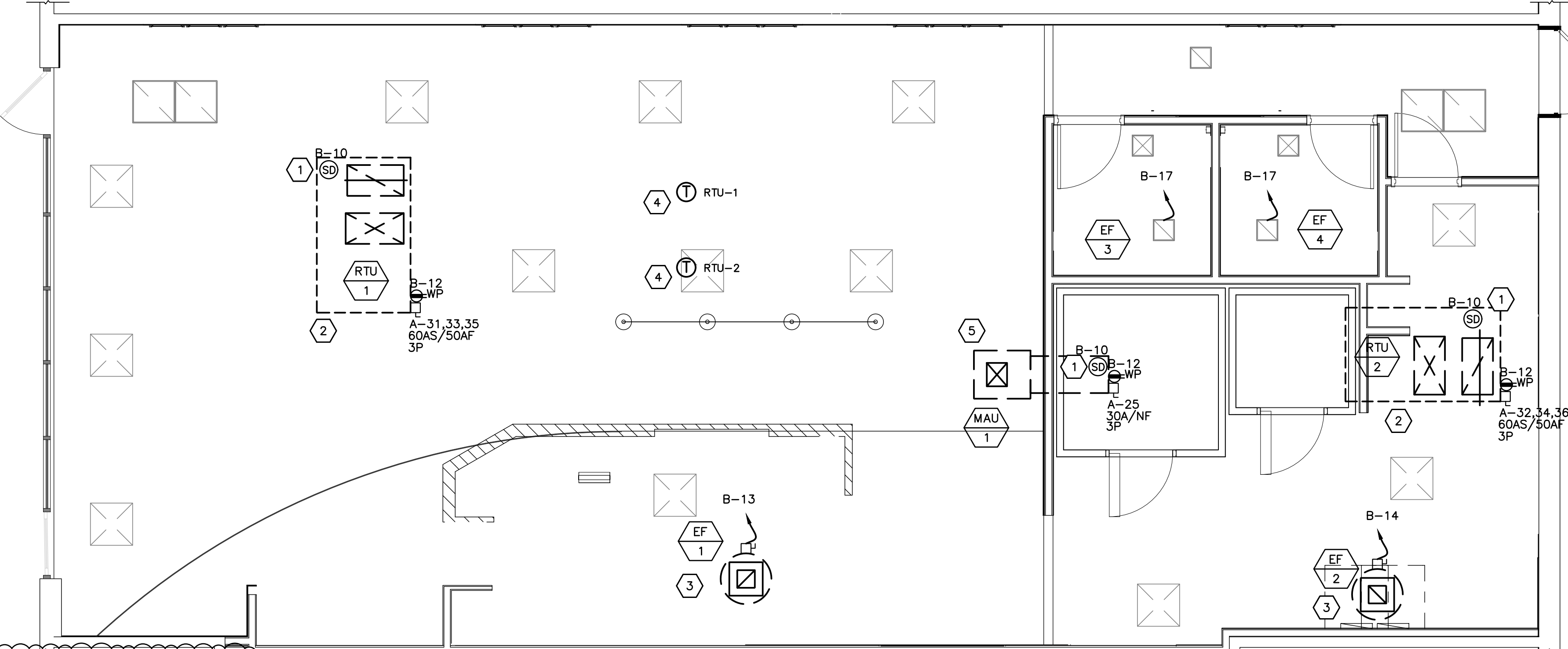
1. ALL LIGHTING FIXTURES AND LAMPS IN THE ABOVE SCHEDULE (UNLESS NOTED WITH **) ARE PROVIDED BY THE CONTRACTOR VIA A NATIONAL CONTRACT WITH FSG LIGHTING NATIONAL ACCOUNTS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE LIGHTING FIXTURES. ANY QUESTIONS REGARDING FIXTURE AND LAMP TYPES, INSTALLATION REQUIREMENTS, AND ORDERS SHALL BE WITH LEON MOWADA OF FSG AT (212) 776-7900 x21113, OR (848) 203-7175, OR BY EMAIL LEON.MOWADA@FSG.COM

2. **LIGHTING FIXTURES AND LAMPS IN THE ABOVE SCHEDULE INDICATED WITH (**) ARE PROVIDED BY THE CONTRACTOR VIA A NATIONAL CONTRACT WITH HERMITAGE LIGHTING NATIONAL ACCOUNTS. THE CONTRACTOR IS RESPONSIBLE FOR PURCHASING AND INSTALLING THE LIGHTING FIXTURES. ANY QUESTIONS REGARDING FIXTURE AND LAMP TYPES, INSTALLATION REQUIREMENTS, AND ORDERS SHALL BE WITH WYATT CULVER OF HERMITAGE LIGHTING AT (800) 264-3383, OR (615) 843-3379 OR LEE DANIELS AT (615) 843-3364.

- ## GENERAL ELECTRICAL NOTES
1. PLACEMENT OF LIGHT FIXTURES SHALL BE SET AS DIMENSIONED & AS SCHEDULED.
 2. LIGHT FIXTURES SHALL BE SUPPLIED AS SCHEDULED WITH NO EXCEPTIONS.
 3. ALL EMERGENCY AND EXIT LIGHTING SHALL BE WIRED AHEAD OF THE SWITCHING. EMERGENCY LIGHTING SHALL BE ON THE SAME CIRCUITRY AS THE GENERAL LIGHTING IN THE AREA THEY SERVE. EMERGENCY LIGHTING WIRING SHALL BE IDENTIFIED (MARKED) PER N.E.C. 700.9. PROVIDE GENERAL LIGHTING CIRCUITS, WHICH HAVE EMERGENCY LIGHTING CONNECTIONS, WITH LOCK-OUT ON BREAKER.
 4. EC TO TEST ALL LIGHTING SYSTEMS TO ENSURE PROPER CALIBRATIONS, ADJUSTMENT, PROGRAMING, AND OPERATION.
 5. ALL EMERGENCY, EXIT LIGHTS IN SUPPORT AREAS SHALL BE CIRCUITED TO LIGHTING CIRCUIT SERVING SAME AREA WITH A LOCK ON DEVICE AT THE BREAKER PER N.E.C. 700.12.

E2.2

- ELECTRICAL HVAC PLAN KEYED NOTES
- MECHANICAL CONTRACTOR SHALL VERIFY AND/OR PROVIDE DUCT MOUNTED SMOKE DETECTOR. ELECTRICAL SHALL INSTALL FIRE ALARM DUCT SMOKE DETECTOR IN RETURN AIR WITH REMOTE AUDIO/VISUAL INDICATOR MOUNTED AT LOCATION THAT CAN BE SEEN AND HEARD. DETECTOR TO SHUT OFF AIR HANDLING UNIT UPON ACTIVATION. EC TO VERIFY AND/OR PROVIDE DEDICATED 20AMP, 120V CIRCUIT FOR SERVICE TO SMOKE DETECTORS. PROVIDE ALL INTERLOCK WIRING IN CONDUIT BETWEEN DETECTOR AND UNIT FOR SHUT DOWN AND BETWEEN DETECTOR AND REMOTE AUDIO/VISUAL INDICATOR.
 - NEW RTU-1, RTU-2 UNIT TO BE PROVIDED BY MECHANICAL CONTRACTOR. EC TO VERIFY LOCATION OF NEW UNITS WITH MECHANICAL CONTRACTOR. EC TO PROVIDE UNITS WITH 60A NONFUSED SWITCH DISCONNECT, AND GFCI RECEPTACLES IN WATERPROOF COVER. PROVIDE (3) #8 CU, (1) #10 CU GND. IN 1-1/4" CONDUIT TO PROVIDED DISCONNECT SWITCHES. IF MOUNTED TO UNIT THE RECEPTACLE SHALL BE INSTALLED AWAY FROM SERVICE PANELS. PROVIDE INTERLOCK WIRING WITH EXHAUST FANS.
 - E.C. TO COORDINATE INSTALLATION OF EF-1, EF-2 WITH MECHANICAL CONTRACTOR. PROVIDE #12 CONDUCTORS TO MANUFACTURER PROVIDED DISCONNECT SWITCHES. PROVIDE INTERLOCK WIRING WITH RTU-1, RTU-2, ANSUL SYSTEM.
 - PROVIDE JUNCTION BOX AND CONDUIT WITH PULL STRING TO ABOVE CEILING FOR THERMOSTAT. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - NEW MAU-1 UNIT TO BE PROVIDED BY MECHANICAL CONTRACTOR. EX TO VERIFY LOCATION IN FIELD. EC TO PROVIDE NEW UNIT WITH 30A NON FUSED SWITCH DISCONNECT, AND GFCI RECEPTACLES IN WATERPROOF COVER. PROVIDE (3) #10 CU, (1) #8 CU GND. IN 3/4" CONDUIT TO PROVIDED SWITCH DISCONNECT. IF MOUNTED TO UNIT, THE RECEPTACLE SHALL BE INSTALLED AWAY FROM SERVICE PANELS. PROVIDE INTERLOCK WIRING WITH EXHAUST FANS.



NOTES	MOUNT: SURFACE					120/208	3-PHASE, 4W					PANEL A					CAPACITY: 200A					INT CAP: EXISTING					NOTES										
	LOCATION: BOH/KITCHEN										LUGS: 200A MLO					DEMAND LOAD: 180A					AV. FAULT: EXISTING																
	CKT	LTG	REC	HVAC	MISC	KIT	DESCRIPTION					AMP	POLE	AMP	POLE	DESCRIPTION					LTG	REC	HVAC	MISC	KIT	CKT											
	1					1.04	MEATCASE 6" [1]					20	1	A	20	1	GRILLE [22]										0.72	2	B								
	3					1.80	4" DROP-IN COLD UNIT [3]					20	1	B	20	1	SPARE											4									
	5					0.84	SLICERS [4]					20	1	C	20	1	HOOD [23]									0.60		6	B								
A	7					0.86	1 DOOR PEPSI COOLER [17]					20	1	A	20	1	SPARE											8									
	9			0.97			COOLER CAPSUL PAK [18A]					20	2	B	C	15	2	FREEZER CAPSUL PAK [19A]									1.55	10									
	11			0.97																												1.55	12				
	13			1.80			COOLER DOOR/LTG [18]					20	1	A	20	1	FREEZER DOOR/LTG [19]									1.80		14									
	15					0.86	SANDWICH UNIT [21A]					20	1	B	20	1	SANDWICH UNIT [19A]										0.86	16									
A	17					1.12	DRINK DISPENSER/ADAPTOR [26]					20	1	C	20	1	CONDENSATE HOOD [23A]										0.86	18									
A	19					1.73	ICE TEA BREWER [28]					20	1	A	20	1	SPARE											20									
	21					1.27	ICE MAKER [46]					20	1	B	20	1	SPARE											22									
	23					0.70	COUNTERTOP FOOD WARMER [31]					20	1	C	20	1	RECESSED BACON WARMER [31B]										0.42	24									
	25			1.91			MAU-1					20	1	A	20	1	SPARE											26									
	27						SPARE					20	1	B	20	1	SPARE											28									
	29					0.31	UNCERCOUNTER FRIDGE [33A]					20	1	C	20	1	BAG-IN-BOX [34]										0.50	30									
SPLIT BUS														SPLIT BUS																							
31				5.04			RTU-1					50	3	B	C	50	3	RTU-2										5.16		32							
33				5.04										5.16		34																					
35				5.04										5.16		36																					
37						3.48	BREAD OVEN [10]					20	1	A							1.7	1.0	0.6	1.0	0.0	38											
39						3.48									20	1	B	100	3					0.6	2.7	0.2	0.0	0.5	40								
41						3.48									20	1	C							1.2	1.3	0.0	0.5	0.0	42								
43							SPARE					20	1	A	20	1	SPARE											44									
45							SPARE					20	1	B	20	1	SPARE											46									
47							SPARE					20	1	C	20	1	SPARE											48									
49							SPARE					20	1	A	20	1	SPARE											50									
51							SPARE					20	1	B	20	1	SPARE											52									
53							SPARE					20	1	C	20	1	SPARE											54									
PHASE BALANCE					LOAD TYPE		CONNECTED					DEMAND					DEMAND FORMULA					TOTAL LOAD															
					LIGHTING		3.5 KVA					4.4 KVA					LOAD X 125% NEC 210.19 CONTINUOUS					CONNECTED					DEMAND										
⊖					RECEPTACLE		20.1 KVA					15.1 KVA					10KVA + 50% REMAINDER NEC 220.44					77.4 KVA					64.8KVA										
A					27.8 KVA 36%		HVAC					28.3 KVA					28.3 KVA					LOAD X 100% (USED MCA IN CALCULATION)					214.8A					179.9A					
B					25.0 KVA 32%		MISC					1.5 KVA					1.5 KVA					LOAD X 100% NEC 210.19 NON-CONT.															
C					24.6 KVA 32%		KIT					24.0 KVA					15.6 KVA					65% PER NEC TABLE 220.56															
CASE Engineering Inc.																																					
NOTES:																																					
A. CIRCUIT BREAKER GFCI - INDICATES 5mA TRIP GFCI TYPE CIRCUIT BREAKER.																																					
B. PROVIDE DEAD FRONT GFI DEVICE IN READILY ACCESSIBLE LOCATION																																					
C.																																					



COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: OCU-MO-5-23, KANSAS CITY JM
Project Type: Alteration

Construction Site: 5903 NW BARRY ROAD
KANSAS CITY, Missouri 64154
Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-FOH (Common Space Types:Dining Area - Cafeteria/Fast Food)	994	0.40	398
Allowance: Decorative Appearance in lobbies / Fix. ID: T1	100 (a)	0.90	90 (b)
2-BOH (Common Space Types:Food Preparation)	899	1.09	980
3-RESTROOMS (Common Space Types:Restrooms)	111	0.63	70
Total Allowed Watts = 1537			

(a) Area claimed must not exceed the illuminated area permitted for this allowance type.
(b) Allowance is (B x C) or the actual wattage of the fixtures given in Proposed Power section, whichever is less.

Proposed Interior Lighting Power

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	A Lamps/ Fixture	B Floor Area (ft2)	C # of Fixture	D Fixture Watt.	E (C X D)
FOH (Common Space Types: Dining Area - Cafeteria/Fast Food, 994 sq.ft.)					
Track Lighting: T1: TRACK: Wattage based on current limiting device capacity	0	0	120	120	
LED: W1: SCENCE: Other:	1	10	6	60	
LED: B1: 2X2 PARABOLIC: Other:	1	31	30	930	
BOH (Common Space Types: Food Preparation, 899 sq.ft.)					
LED: A: 2X4 PRISMATIC: Other:	1	8	45	360	
RESTROOMS (Common Space Types: Restrooms, 111 sq.ft.)					
LED: B1: 2X2 PARABOLIC: Other:	1	2	30	60	
Total Proposed Watts = 1530					

Interior Lighting PASSES

Interior Lighting Compliance

Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: OCU-MO-5-23, KANSAS CITY JM Report date: 07/31/23
Data filename: Page 1 of 5

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23] ¹	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight-responsive control function and section C405.2.3.2 Sidelit zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.5 [EL27] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.7 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.8 [EL27] ²	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.9.1, C405.9.2 [EL28] ²	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.10 [EL29] ²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.1.1 [EL30] ²	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.11, C405.11.1 [EL31] ²	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: OCU-MO-5-23, KANSAS CITY JM Report date: 07/31/23
Data filename: Page 4 of 5



COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 38.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: OCU-MO-5-23, KANSAS CITY JM Report date: 07/31/23
Data filename: Page 2 of 5

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [F117] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.1.1 [F157] ³	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5 [F116] ³	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.3 [F133] ³	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: OCU-MO-5-23, KANSAS CITY JM Report date: 07/31/23
Data filename: Page 5 of 5

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22] ¹	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1, C405.2.1.1 [EL18] ¹	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1, [EL19] ¹	Occupancy sensors control function in warehouses: In warehouses, the lighting in aiseways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleyway independently and do not control lighting beyond the aisleyway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1, [EL20] ¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.2, C405.2.2.1 [EL21] ²	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: OCU-MO-5-23, KANSAS CITY JM Report date: 07/31/23
Data filename: Page 3 of 5



FOR PERMIT

Client Approval

ELECTRICAL COMCHECK

Project # 43423-M003
Issue Date 07/10/2023
Scale As indicated
Drawn by TS
Checked by MTJ