	ELECTRICAL GENERAL NOTES
<u>A. SUP</u> 1.	PLEMENTAL GENERAL CONDITIONS THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSTALLATION THAT IS COMPLETE WITH A ITEMS AND APPURTENANCES NECESSARY, REASONABLE INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOU
2.	EACH ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, LABOR, SUPERVISION AND SERVICE NECESSARY TO PROVIDE A COMPLETE, FUNCTIONING ELECTRIC SYSTEM IN SAFE WORKING ORDER. SYMBOLS FOR VARIOUS ELEMENTS AND SYSTEMS ARE SHOWN ON THE DRAWINGS. SHOULD THERE BE ANY DOU REGARDING THE MEANING OR INTENT OF THE SYMBOLS LISED AN INTERPRETATION SHALL BE OPTAINED EDOM
3.	ARCHITECT IN WRITING. THE DECISION OF THE ARCHITECT SHALL BE FINAL. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO EXAMINE THE CONTRACT DOCUMENTS CAREFULLY BEFORE SUBMITTING THEIR BID, WITH ATTENTION TO ERRORS, OMISSIONS, CONFLICTS WITH PROVISIONS OF LA AND CODES HAVING JURISDICTION, CONFLICTS BETWEEN DRAWINGS OR DRAWINGS AND SPECIFICATIONS AND
	AMBIGUOUS DEFINITION OF THE EXTENT OF COVERAGE BETWEEN CONTRACTS. ANY SUCH DISCREPANCY SHAL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT FOR CORRECTION. SHOULD ANY OF THESE ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES EXIST, THE CONTRACTOR SHALL HAVE THEM EXPLAINED ANI ADJUSTED IN WRITING BEFORE SIGNING THE CONTRACT OR PROCEEDING WITH THE WORK: OTHERWISE. THF
4.	CONTRACTOR SHALL, AT THEIR OWN EXPENSE, SUPPLY THE PROPER MATERIALS AND LABOR TO MAKE GOOD AI DAMAGE OR DEFECTS IN THEIR WORK OR THE RESULTS OBTAINED THEREFROM, CAUSED BY SUCH DISCREPANC WHEREVER CONFLICTS OCCUR BETWEEN DIFFERENT PARTS OF THE CONTRACT DOCUMENTS, THE GREATER QUANTITY, THE BETTER QUALITY, OR LARGER SIZE SHALL PREVAIL UNLESS THE ARCHITECT INFORMS THE
5.	CONTRACTOR OTHERWISE IN WRITING. THE SCALE OF EACH DRAWING IS RELATIVELY ACCURATE; ANY DIMENSIONS SHOWN ARE APPROXIMATE TO CENTERLINE FROM ASSUMED BUILDING PERIMETER. THE CONTRACTOR SHALL OBTAIN THE NECESSARY DIMENSIONS FOR ANY EXACT TAKEOFFS FROM THE ARCHITECT. NO ADDITIONAL COST TO THE OWNER WILL BE
6.	CONSIDERED FOR FAILURE TO OBTAIN EXACT DIMENSIONS WHERE NOT CLEAR OR IN ERROR ON THE DRAWINGS ANY DEVICE OR FIXTURE ROUGHED IN IMPROPERLY AND NOT POSITIONED ON IMPLIED CENTER-LINES OR AS REQUIRED BY GOOD PRACTICE MUST BE REPOSITIONED AT NO COST TO THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR FILING AND PAYING ALL FEES AND OBTAINING NECESSARY PERMITS AN
7.	CERTIFICATES OF INSPECTION. THE CONTRACTOR SHALL DELIVER ALL CERTIFICATES OF INSPECTION TO OWNER/CONSTRUCTION MANAGER INCLUDING COPIES WITH MAINTENANCE MANUALS. ONLY EXPERIENCED CRAFTSMEN KNOWLEDGEABLE IN THEIR RESPECTIVE TRADE SHALL PERFORM THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS.
8. 9.	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITIONOF NFPA STANDARD 70 (NATIO ELECTRICAL CODE). CONTRACTOR SHALL ALSO CONFORM TO ALL APPLICABLE LOCAL CODES AND AMENDMENTS UNLESS OTHERWISE INDICATED, ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND SHALL MEET NEMA AND A STANDARDS. THEY SHALL ALSO BE LISTED/LABELED BY A NATIONALLY RECOGNIZED LABORATORY IN ACCORDAN
10.	WITH NFPA 70. EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND WITHIN THEIR LISTING/LABELING REQUIREMENTS AND RESTRICTIONS. PROVIDE SHOP DRAWINGS FOR ENGINEER'S REVIEW FOR ALL ELECTRICAL EQUIPMENT, DEVICES, AND MATERIAL PROPOSED TO BE PROVIDED UNDER THIS CONTRACT. ANY DEVIATIONS FROM ITEMS SPECIFIED SHALL BE CLEAR
<u>B. ELE(</u> 1	IDENTIFIED AND SEPARATELY SUBMITTED WITH A FORMAL SUBSTITUTION REQUEST. REFER TO SPECIFICATIONS (PROJECT MANUAL) FOR REQUIREMENTS. <u>CTRICAL EQUIPMENT</u> PROVIDE AN IDENTIFICATION NAMEPLATE FOR FACH FLECTRICAL FOURPMENT, APPLIBUTENANCE DEDICTING THE
2. 3.	DESIGNATION INDICATED ON THE DRAWINGS. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS. WEATHERPROOF ENCLOSURES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT, DEVICES AND APPURTENANCES (ALL SYSTEMS) INSTALLED OUTDOORS. COORDINATE AND SCHEDULE ALL POWER OUTAGES WITH OWNER. REFER TO SPECIFICATIONS FOR FURTHER
э. 4.	REQUIREMENTS. SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE BASED ON PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR DEVICES OF A PARTICULAR MANUFACTURER. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS. FOLLIPMENT AND DEVICES PROPOSED
5.	FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE. DO NOT USE PERMANENT INK WHEN MAKING FIELD MARKINGS OR TEMPORARY CIRCUIT LABELS ON PANELS. CONTRACTOR SHALL USE REMOVABLE TAPE/TAGS FOR ALL TEMPORARY MARKINGS AND SHALL REMOVE THESE TEMPORARY MARKINGS AT THE CONCI USION OF THIS PROJECT
6. 7.	PROVIDE TYPE WRITTEN CIRCUIT DIRECTORIES FOR ALL CIRCUITS WITH LOAD DEFINITIONS FOR EACH PANELBOARD. DIRECTORY SHALL BE LOCATED INSIDE PANEL DOOR. SPARES AND SPACES WITHIN PANELBOARI SHALL BE LEFT BLANK IN CIRCUIT DIRECTORY. SPARE BREAKERS WITHIN PANELS SHALL BE LEFT IN THE OPEN POSITION.
<u>). SPE</u> 1.	CIAL SYSTEMS (i.e. DATA/PHONE/SECURITY/CATV) CONTRACTOR SHALL PROVIDE AND INSTALL AN EMPTY CONDUIT RACEWAY SYSTEM FOR SPECIAL SYSTEM. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN VENDOR SHOP DRAWINGS FROM THE VENDOR/INST/ PRIOR TO ELECTRICAL ROUGH-IN. CONTRACTOR SHALL COORDINATE. PROVIDE AND INSTALL ALL REQUIRED
<u>CON</u>	RACEWAYS AND DEVICE BACK BOXES AS REQUIRED BY VENDOR SHOP DRAWINGS. CONTRACTOR TO PROVIDE A LINE ITEM ALLOWANCE IN BID AS NECESSARY TO COVER THIS SCOPE.
١.	IN CONDUITS, RACEWAYS, ETC., REQUIRED TO PROPERLY INSTALL THE WORK. EXPOSED WORK MUST BE KEPT CLOSE AS POSSIBLE TO WALLS, CEILINGS, COLUMNS, ETC., SO AS TO TAKE UP MINIMUM AMOUNT OF SPACE; AL OFFSETS, FITTINGS, ETC., REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. WO SHALL BE COORDINATED WITH OTHER TRADES
2. 3.	CONDUIT RUNS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATING PUL BOXES PER NFPA 70 AND FOR COORDINATION WITH OTHER DISCIPLINES. CONDUIT RUNS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATING PUL BOXES PER NEPA 70 AND FOR COORDINATION WITH OTHER DISCIPLINES.
4.	PENETRATIONS OF WALLS, FLOORS, AND ROOFS FOR THE PASSAGE OF ELECTRICAL RACEWAYS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF WORK. ALL SUCH PENETRATIONS SHALL BE PROPERLY SEALED OFF AFTER INSTALLATION OF RACEWAY SO AS TO MAINTAIN THE STRUCTURAL WATER PROOF AND FIRE PROOF INTEGRITY OF THE WALL FLOOP, OR PROOF SYSTEM DENISTRATIONS
5. 6.	SEAL ALL CONDUITS THAT PENETRATE THE BASEMENT FLOOR SLAB TO MAKE THEM WATER TIGHT. THE CONDUI SHALL BE DRIED PRIOR TO INSTALLATION OF WIRE/CABLE AND SHALL BE SEALED AT TERMINATIONS. ALL PENETRATIONS THROUGH FIRE RATED WALLS OR PARTITIONS SHALL BE MADE IN ACCORDANCE WITH U.L. " RESISTANCE DIRECTORY". PENETRATIONS SHALL BE SLEEVED AND SFAIL FD WITH A UPPROVED FIRE RATED
7. <u>BRA</u>	SEALANT. REFER TO ARCHITECTURAL PLANS FOR FIRE RATED WALLS. ALL EMPTY CONDUIT SYSTEMS SHALL CONTAIN A PULL WIRE FOR FUTURE PULLING OF CONDUCTORS. NCH CIRCUITS AND FEEDERS
1. <u>2.</u>	CIRCUITING IS SHOWN DIAGRAMMATICALLY. HOMERUNS SHALL BE COMBINED WHERE POSSIBLE ACCORDING TO NFPA 70. UNLESS OTHERWISE INDICATED, ALL CIRCUITS 100' OR LESS SHALL BE MINIMUM #12 AWG WIRE SIZE. CIRCUITS OVER 100' BUT LESS THAN 200' SHALL BE MINIMUM #10 AWG WIRE SIZE. CIRCUITS OVER 200' BUT LESS THAN 30 SUALL BE MINIMUM #0 AWG WIRE SIZE.
3. 4.	SHALL BE MINIMUM #8 AWG WIRE SIZE. UNLESS OTHERWISE INDICATED, ALL CONDUCTORS SHALL BE COPPER, 98% CONDUCTIVITY CONTINUOUS FROM OUTLET TO OUTLET. UNLESS OTHERWISE INDICATED, CONDUCTOR SIZES #12 AWG AND #10 AWG SHALL BE SOLID. CONDUCTOR SIZE
5.	AWG AND LARGER MAY BE STRANDED. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTOR FOR GROUNDING WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY, OR A CABLE ARMOR OR SHEATH SHALL NOT BE USED AS THE ONLY EQUIPMENT GROUNDING CONDUCTOR.
o. <u>W</u> IRI	CIRCUIT SHALL HAVE ITS OWN NEUTRAL CONDUCTOR AND EACH HOMERUN SHALL CONTAIN AN ISOLATED AND EQUIPMENT GROUND CONDUCTOR.
1.	REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION AND MOUNTING HEIGHT OF ALL WA AND FLOOR MOUNTED ELEMENTS (OUTLETS, LIGHT SWITCHES, CONTROLLERS, POKE-THRU, ETC). ALL WALL/FLC MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. II LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS. VERIES THE EXACT LOCATION OF
2.	ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL WALL/FLOOR TYPES ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS. COORDINATE THE LOCATION AND INSTALLATION DETAIL OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS (WALL ELEVATIONS, MILLWORK DETAILS, ETC.) AND WITH MILLWORK MANUFACTURER PRIOR TO
3. 4.	ELECTRICAL ROUGH-IN. WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN NEAR DATA OUTLETS SHALL BE LOCATED WITHIN S (6) INCHES OF THE DATA OUTLET. LOCATE AT SAME MOUNTING HEIGHT UNLESS NOTED OTHERWISE. VERIFY THE EXACT POWER CONNECTION TYPE AND NEMA CONFIGURATION OF RECEPTACLES FOR EQUIPMENT
5.	FURNISHED BY THE OWNER, OTHER TRADES, OR UNDER A SEPARATE SECTION OF THIS CONTRACT PRIOR TO ELECTRICAL ROUGH-IN. ALL RECEPTACLES LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE HOUSED IN ENCLOSURES THAT ARE RATED 'WEATHER-PROOF-WHILE-IN-USE' AND SHALL BE EQUIPPED WITH GFCI FOR PERSONNEL PROTECTION.
6.	ALL GFCI RECEPTACLES SHALL BE CONNECTED SO THAT ALL DEVICES ON THE SAME CIRCUIT AS THE GFCI RECEPTACLE DO NOT DE-ENERGIZE UPON TRIPPING. ALL GFCI RECEPTACLES SHALL INCLUDE A LOCK-OUT FUNCTION TO PROTECT AGAINST THE USE OF MISWIRED DEVICES OR DEVICES THAT HAVE BEEN DAMAGED DUI DISABLING SURGES.
<u>LIGH</u> 1.	ITING SYSTEM REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION OF ALL CEILING ELEMENTS (LIGHTS SPRINKLERS, DIFFUSERS, ETC). ALL CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL
2.	DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS. PROVIDE AND INSTALL ALL SUPPORTS FOR LIGHT FIXTURES. SUPPORTS SHALL BE INDEPENDENT OF THE CEILING
<u> </u>	GRID SUPPORT SYSTEM. LIGHT SWITCHES / OCCUPANCY SENSORS LOCATED IN A ROOM SHALL CONTROL ALL THE LIGHT FIXTURES IN TH ROOM UNLESS NOTED OTHERWISE. CONTRACTOR SHALL GANG TOGETHER ALL SWITCHES/DIMMERS UNDER A SINGLE COVER PLATE IN ALL AREAS THAT REQUIRE MORE THAN ONE SWITCH TO CONTROL ELECTRICAL DEVICE
4.	IN INSTANCES WHERE A TRACK LIGHTING SYSTEM, DIMMING SYSTEM, AND/OR LIGHTING CONTROL SYSTEM IS SPECIFIED, THE CONTRACTOR SHALL COORDINATE ALL NECESSARY COMPONENTS OF SUCH SYSTEM(S) WITH T MANUFACTURER PRIOR TO BID AND INCLUDE ALL NECESSARY ACCESSORIES TO INSTALL A COMPLETE AND FUNCTIONING SYSTEM.
5.	THE EXACT LOCATIONS AND QUANTITIES OF PHOTOSENSORS SHALL BE DETERMINED IN THE FIELD; REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION FOR MANUFACTURER'S RECOMMENT PLACEMENT. LOCATE SENSORS IN THE CORRECT LOCATION REQUIRED FOR THE PROPER COVERAGE OF CONTROLLED AREAS AND TO MINIMIZE INTERFERENCE FROM OTHER LIGHT SOURCES
6.	ROOMS OR SPACES INDICATED ON FLOOR PLANS OR LIGHTING CONTROL SCHEDULES TO BE PROVIDED WITH PHOTOSENSOR SHALL BE PROVIDED WITH DAYLIGHT CONTROLS. PROVIDE DAYLIGHT CONTROLLER, DIMMING BALLASTS, DIMMING DRIVERS, DIMMING CONTROL WALL STATIONS, AND LOW-VOLTAGE CONTROL WIRING REQUIRED FOR COMPLETE AND OPERATIONAL AUTOMATIC DAYLIGHT RESPONSIVE DIMMING CONTROL.
7.	THE LOCATIONS AND QUANTITIES OF OCCUPANCY SENSORS INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THAT THE ROOMS ARE TO BE PROVIDED WITH OCCUPANCY SENSORS. THE EXACT LOCATIC AND QUANTITIES SHALL BE DETERMINED AT THE BUILDING; REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION FOR MANUFACTURER'S RECOMMENDED PLACEMENT. LOCATE AND AIM
	OCCUPANCY SENSORS IN THE CORRECT LOCATION REQUIRED FOR THE COMPLETE AND PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAGES OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS. ROOMS SHALL HAVE 90% TO 100% COVERAGE OF THE CONTROLLED AREA TO ACCOMMOI OCCUPANCY HABITS OF SINGLE OR MULTIPLE OCCUPANTS AT ANY LOCATION WITHIN THE ROOMS. PROVIDE
<u>MEC</u> 1.	ADDITIONAL OCCUPANCY SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE RC AT NO ADDITIONAL COST TO THE OWNER. <u>CHANICAL & PLUMBING COORDINATION</u> REFERENCE THE MECHANICAL AND PLUMBING DRAWINGS FOR ALL EQUIPMENT NEEDING ELECTRICAL
2.	CONNECTIONS. MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE, CONDUIT, AND OVERCURRENT PROTECTION FOR ALL EQUIPMENT. VERIFY EXACT LOCATION OF ALL POWER CONNECTIONS AND CONTROL DEVICES WITH OTHER TRADES AND MANUFACTURERS SHOP DRAWINGS BEFORE CONSTRUCTION. COORDINATE ALL REQUIRED ENERGY MANAGEMI
3.	SYSTEM POINTS AND CONTACT CONNECTIONS TO ENSURE THE COMPLETE AND PROPER OPERATION OF ALL SYSTEMS. ALL FUSED SWITCHES AND/OR CIRCUIT BREAKERS SERVING EQUIPMENT SHALL HAVE PROVISIONS FOR HANDLE LOCKS.
4. 5.	ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BEAR AN 'HACR' RATING. ALL DISCONNECTS DOWN STREAM OF VFDs SHALL BE PROVIDED WITH AUXILIARY CONTACTS TO SHUT DOWN UPSTREAM VFD WHEN SWITCH IS OPENED. COORDINATE BETWEEN TRADES AND PROVIDE CONTROL POWER FOR ALL VAV BOXES/DAMPERS/ETC, AS REQU
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IEANING OF THE CONTRACT ALLATION THAT IS COMPLETE WITH ALL STOMARILY INCLUDED, EVEN THOUGH R SHALL PROVIDE ALL EQUIPMENT, COMPLETE, FUNCTIONING ELECTRICAL WINGS. SHOULD THERE BE ANY DOUBT TATION SHALL BE OBTAINED FROM THE CONTRACT DOCUMENTS CAREFULLY CONFLICTS WITH PROVISIONS OF LAWS AWINGS AND SPECIFICATIONS, AND TS. ANY SUCH DISCREPANCY SHALL

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ELECTRICAL GENERAL NOTES THE POWER RATINGS OF MECHANICAL, PLUMBING, AND FIRE SUPPRESSION SYSTEM MOTORS AND EQUIPMENT AND THE CHARACTERISTICS OF ELECTRICAL SYSTEMS SERVING THEM, AS SPECIFIED IN OTHER DIVISIONS, HAVE BEEN ESTABLISHED AS MINIMUMS WHICH WILL ALLOW THAT EQUIPMENT TO SATISFACTORILY FUNCTION WHILE PRODUCING THE CAPACITIES INDICATED ON THE DRAWINGS OR SPECIFIED HEREIN. THESE POWER RATINGS INCLUDE A SAFETY FACTOR DEEMED APPROPRIATE TO ACCOMMODATE COMMON DIFFERENCES BETWEEN DESIGN PARAMETERS AND FIELD CONSTRUCTION PRACTICES. REASONABLE EFFORTS HAVE BEEN MADE TO COORDINATE THE ELECTRICAL REQUIREMENTS OF THE EQUIPMENT SPECIFIED IN OTHER DIVISIONS WITH THE ELECTRICAL SYSTEMS SERVING THAT EQUIPMENT. DIFFERENCES AMONG MANUFACTURERS OF EQUIPMENT MAKE IT IMPOSSIBLE TO PRODUCE A SINGLE ELECTRICAL DESIGN WHICH WILL SATISFY THE VARYING ELECTRICAL REQUIREMENTS OF THOSE MANUFACTURERS. CONSEQUENTLY, THE CONTRACTORSHALL

COORDINATE THE ELECTRICAL REQUIREMENTS OF THE EQUIPMENT ACTUALLY FURNISHED ON THIS PROJECT AND PROVIDE THE ELECTRICAL SYSTEMS REQUIRED BY THAT EQUIPMENT. THIS COORDINATION EFFORT SHALL BE COMPLETED PRIOR TO THE INSTALLATION OF EITHER THE EQUIPMENT OR THE ELECTRICAL SYSTEMS SERVING THAT EQUIPMENT. ELECTRICAL SYSTEM REVISIONS REQUIRED TO COORDINATE WITH THE EQUIPMENT ACTUALLY FURNISHED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. EXISTING CONDITIONS TO REMAIN. ALL NEW WORK INSTALLED TO MEET CURRENT CODE REQUIREMENTS. PRELIMINARY ANNOTATIVE SET WAS REVIEWED WITH CITY OF ATLANTA ON 03/08/2022 BEFORE SUBMITTING FOR PERMIT. CONVERGIN, MITEC, AND LOW VOLTAGE WIRING ADDED BY OWNER.

ELECTRICAL ABBREVIATIONS MOTOR CONTROL CENTER ABOVE FINISHED COUNTER MCC ABOVE FINISHED FLOOR MDP MAIN DISTRIBUTION PANEL AUTHORITY HAVING JURISDICTION MH MANHOLE AUTOMATIC TRANSFER SWITCH MLO MAIN LUGS ONLY BELOW FINISHED CEILING MTD MOUNT OR MOUNTED BOTTOM OF FIXTURE MW MICROWAVE CONDUIT NEW DEVICE NC (N.C.) CB,C/B OR CIRCUIT BREAKER NORMALLY CLOSED CKT BKR NEC NATIONAL ELECTRIC CODE CIRCUIT CKT NF NONFUSED CLOSED CIRCUIT TV CCTV NOT IN CONTRACT NIC NIGHT LIGHT CLG CEII ING CRITICAL (EMERGENCY SYSTEM) NO (N.O.) NORMALLY OPEN CABINET HEATER PB PULL BOX PLGMLD EMPTY CONDUIT PLUGMOLD ELECTRIC PNL PANEL EMERGENCY PWR POWER ENERGY MANAGEMENT SYSTEM RELOCATED DEVICE EXPLOSION PROOF RCPT(S) OR RECEPTACLE(S) ELECTRIC WATER COOLER RECEPT EXISTING REF REFRIGERATOR RETURN AIR FAN FUSE RF FUSED PER MANUFACTURER'S SEF SMOKE EXHAUST FAN REQUIREMENTS SUPPLY AIR FAN SF FIRE ALARM SO (S.O.) SPACE ONLY FACP, FAP FIRE ALARM CONTROL PANEL SP SPARE ST (S.T.) SHUNT TRIP FAN COIL UNIT FCU FIXT FIXTURE SW SWITCH FLR FLOOR TELEPHONE FLUOR FLUORESCENT TRANSFER FAN FTP, FTS OR FAN TERMINAL UNIT TAMPER PROOF TELEVISION TVSS FUTURE TRANSIENT VOLTAGE SURGE G, GND GROUND (EQUIPMENT) SUPPRESSION GENERAL EXHAUST FAN UNDERFLOOR UF GEF GEN GENERATOR UNDERGROUND UG GROUND FAULT CIRCUIT INTERRUPTER UNIT HEATER GFCI, GFI UH HORSE POWER UNLESS NOTED OR INDICATED UNO (U.N.O.) HIGH VOLTAGE OTHERWISE HEAT TRACE VOLTAGE HWAT INTERRUPTING CAPACITY VARIABLE FREQUENCY DRIVE VFD ICAND INCANDESCENT VAPOR PROOF VP VARIABLE VOLUME UNIT ISOLATED GROUND VV GROUND FAULT INDICATION ONLY WIRE JUNCTION BOX WITH KITCHEN EXHAUST FAN WIRE GUARD WEATHER PROOF LTG LIGHTING LTS LIGHTS WΤ WATER TIGHT LOW VOLTAGE XFMR TRANSFORMER MOUNTING HEIGHT IN INCHES. AFF UNO. MATV MASTER ANTENNA +XX UNDER CABINET REFRIGERATOR MCB MAIN CIRCUIT BREAKER UCR

ALL SYMBOLS SHOWN MAY NOT APPEAR IN SYMBOL SWITCHBOARD OR SWITC 480Y/277V DISTRIBUTION 208Y/120V DISTRIBUTION 480Y/277V PANELBOARD. 208Y/120V PANELBOARD. ISOLATION PANEL. Т STEP-DOWN TRANSFORM \ge AUTOMATIC TRANSFER S X **BY-PASS / ISOLATION AUT** MGB GROUND BAR. ("MGB" = I GROUND BAR) GAP GENERATOR ANNUNCIAT ATSA AUTOMATIC TRANSFER S TVSS TRANSIENT VOLTAGE ANI AAP AREA ALARM PANEL. FOAP FUEL OIL ALARM PANEL. MGAP MEDICAL GAS ALARM PAN DHTA DECONTAMINATION HOLI FUSED DISCONNECT SW NON-FUSED DISCONNEC ₩X/Y/Z TYPE IF OTHER THAN NE ENCLOSED CIRCUIT BRE X/Y/Z TYPE IF OTHER THAN NE STARTER / CONTROLLER \boxtimes ADDITIONAL REQUIREME COMBINATION CONTROL Ч⊠ EQUIPMENT CONNECTIO 4 VARIABLE SPEED DRIVE. 30A SINGLE POLE MOTOR DISABLED PUSH BUTTON \$_{ADA} **\$**мD MOTORIZED DOOR CONT **\$**мs MOTORIZED SHADE CON \$_{PS} PROJECTION SCREEN CO EMERGENCY POWER OF Ĥ "EMERGENCY POWER SH Θ SINGLE RECEPTACLE - 20 DUPLEX RECEPTACLE Θ C USB CONNECTOR. Ð DUPLEX RECEPTACLE - 2 ₽ DUPLEX RECEPTACLE MC ⊕ QUADRAPLEX RECEPTAC ₽ QUADRAPLEX RECEPTAC DUPLEX RECEPTACLE GR €= DUPLEX RECEPTACLE GR QUADRAPLEX RECEPTAC -COVERPLATE). DUPLEX RECEPTACLE -━ EXACT LOCATION AND M ⊖ DUPLEX RECEPTACLE. Θ DUPLEX RECEPTACLE, FI SPECIAL OUTLET - 30A/25 \diamond \otimes SPECIAL OUTLET - 30A/25 COMBINATION RECEPTAG • DUPLEX RECEPTACLES A COMBINATION RECEPTA RECEPTACLES AND 3 SIN JUNCTION BOX FOR CON <u>o</u>-CONNECTION REQUIREM POKE-THROUGH FOR CO \odot REQUIREMENTS WITH SY FLOOR BOX FOR CONNE • REQUIREMENTS WITH SY **O**-JUNCTION BOX. \bigcirc JUNCTION BOX. DUPLEX RECEPTACLE OU GFCI DUPLEX RECEPTACI SPECIAL OUTLET (NEMA L IN RACEWAY. \mathcal{N} MOTOR CONNECTION. ELECTRICAL CONNECTION __ ELECTRICAL CONNECTION UNDERLINE TEXT INDICA <u>MSB</u> ADDITIONAL INFORMATIC DENOTES PANELBOARD (L1A) OR ROOM SHALL BE SER NUMBER INDICATES CIRC 6 NUMBER WITH PREFIX 'E' E6 PANEL. NUMBER WITH PREFIX 'C' C6 S6 NUMBER WITH PREFIX 'S' EQUIPMENT CONNECTIO (ELEV-1) INFORMATION. 20A "CLOCK" TYPE RECE С COORDINATE EXACT LOC CO INDICATES CORROSION I IG INDICATES ISOLATED GRO SP INDICATES SURGE PROT INDICATES TAMPER RESI TR

WP

	POWER SYMBOLS LEGEND	
SH	IOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY N	OT BE TO SCALE.
	DESCRIPTION	MNTG. HT. UNO
	SWITCHBOARD OR SWITCHGEAR. DOUBLE LINE INDICATES FRONT.	
	2081/120V DISTRIBUTION PANELBOARD, SURFACE-MOUNTED.	
	480Y/277V PANELBOARD.	
	208Y/120V PANELBOARD.	
	ISOLATION PANEL.	
	STEP-DOWN TRANSFORMER.	
	AUTOMATIC TRANSFER SWITCH.	
	BY-PASS / ISOLATION AUTOMATIC TRANSFER SWITCH.	
	GROUND BAR. ("MGB" = MAIN GROUND BAR, "PG" = PATIENT GROUND BAR, "RG" = ROOM	
	GENERATOR ANNUNCIATOR PANEL	
	AUTOMATIC TRANSFER SWITCH ANNUNCIATOR PANEL.	AS REQUIRED
	TRANSIENT VOLTAGE AND SURGE SUPPRESSOR DEVICE.	AS REQUIRED
	AREA ALARM PANEL.	AS REQUIRED
	FUEL OIL ALARM PANEL.	AS REQUIRED
	MEDICAL GAS ALARM PANEL - PANEL PROVIDED UNDER DIV 15.	AS REQUIRED
	DECONTAMINATION HOLDING TANK ALARM - PANEL PROVIDED UNDER OTHER DIVISION.	AS REQUIRED
/Z	FUSED DISCONNECT SWITCH (W=FRAME SIZE, X=NUMBER OF POLES, Y=FUSE SIZE, Z=ENCLOSURF TYPF IF OTHER THAN NEMA 1)	AS REQUIRED
	NON-FUSED DISCONNECT SWITCH (X=FRAME SIZE, Y=NUMBER OF POLES, Z=ENCLOSURE	AS REQUIRED
	ENCLOSED CIRCUIT BREAKER (X=TRIP RATING, Y=NUMBER OF POLES, Z=ENCLOSURE	
	I YPE IF OTHER THAN NEMA 1). STARTER / CONTROLLER. REFER TO EQUIPMENT CONNECTION SCHEDULE(S) FOR	
	ADDITIONAL REQUIREMENTS, UON.	AS REQUIRED
	EQUIPMENT CONNECTION SCHEDULE(S) AND FOR ADDITIONAL REQUIREMENTS, UON.	AS REQUIRED
	VARIABLE SPEED DRIVE.	AS REQUIRED
	30A SINGLE POLE MOTOR RATED SWITCH	AS REQUIRED
	DISABLED PUSH BUTTON FOR ADA DOOR.	AS REQUIRED
	MOTORIZED DOOR CONTROLLER (FURNISHED WITH DOOR).	AS REQUIRED
	MOTORIZED SHADE CONTROLLER (FURNISHED WITH SHADES)	AS REQUIRED
	PROJECTION SCREEN CONTROLLER (FURNISHED WITH SCREEN).	AS REQUIRED
	"EMERGENCY POWER SHUTDOWN" IN RED COLOR.	66" AFF
	SINGLE RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R.	18" AFF
	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R WITH ONE TYPE A AND ONE TYPE C USB CONNECTOR.	18" AFF
	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R.	18" AFF
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP.	8" AFC OR 42" AFF
	QUADRAPLEX RECEPTACLE (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE).	18" AFF
	OLIADRADI EX RECEPTACI E MOLINTED ABOVE COLINTERTOR	8" AFC OR
	QUADRAPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP.	8" AFC OR 42" AFF
	QUADRAPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP. DUPLEX RECEPTACLE GFCI - 20A/125V/2P/3W/G NEMA 5-20R.	8" AFC OR 42" AFF 18" AFF
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	QUADRAPLEX RECEPTACLE GFCI - 20A12SV/2P/3W/G NEMA 5-20R. DUPLEX RECEPTACLE GFCI MOUNTED ABOVE COUNTERTOP. QUADRAPLEX RECEPTACLE GFCI (TWO DUPLEX RECEPTACLES GFCI UNDER ONE COVERPLATE). DUPLEX RECEPTACLE GFCI (TWO DUPLEX RECEPTACLES GFCI UNDER ONE COVERPLATE). DUPLEX RECEPTACLE. 20A12SV/2P/3W/G NEMA 5-20R. FOR TV/DISPLAY. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL INTERIOR ELEVATIONS. DUPLEX RECEPTACLE. DUPLEX RECEPTACLE. DUPLEX RECEPTACLE. SPECIAL OUTLET - 30A250V/2P/3W/G NEMA L6-30R, UON ON FLOORPLANS. COMBINIATION RECEPTACLES AND 3 SINGLE GANG OPENINGS FOR IT/AV. JUNCTION BOX FOR CONNECTION TO PRE-WIRED SYSTEMS FURNITURE. COORDINATE COMBINIATION RECEPTACLES AND 3 SINGLE GANG OPENINGS FOR IT/AV. JUNCTION BOX FOR CONNECTION TO PRE-WIRED SYSTEMS FURNITURE. COORDINATE RECURENENTS WITH SYSTEMS FURNITURE PROVIDER. JUNCTION BOX. DUPLEX RECEPTACLE OUTLET, MOUNTED HORIZONTALLY IN RACEWAY. GFCI DUPLEX RECEPTACLE OUTLET, MOUNTED HORIZONTALLY IN RACEW	8" AFC OR 42" AFF 18" AFF 8" AFC OR 42" AFF 18" AFF CEILING MOUNTED FLOOR MOUNTED 18" AFF CEILING MOUNTED FLOOR MOUNTED 18" AFF 18" AFF FLOOR MOUNTED 18" AFF CEILING/ AFF AFF CEILING/ AFF CEILING/ ABOVE CEILING PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS
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	QUADRAPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP. DUPLEX RECEPTACLE GFCI MOUNTED ABOVE COUNTERTOP. QUADRAPLEX RECEPTACLE GFCI (TWO DUPLEX RECEPTACLES GFCI UNDER ONE OVORTRALTE, QUADRAPLEX RECEPTACLE GFCI (TWO DUPLEX RECEPTACLES GFCI UNDER ONE OVORTRALTE, DUPLEX RECEPTACLE, FLUSH MOUNTED IN FLOORBOX WITH COVERPLATE. SPECIAL OUTLET - 30A/250/2P/3WIG NEMA 6.30R, UON ON FLOORPLANS. SPECIAL OUTLET - 30A/250/2P/3WIG NEMA 16.30R, UON ON FLOORPLANS. SPECIAL OUTLET - 30A/250/2P/3WIG NEMA 16.30R, UON ON FLOORPLANS. COMBINATION RECEPTACLE COMMUNICATIONS OUTLET FORCE THROUGH FITING WITH 2 DUPLEX RECEPTACLE MODINUNCATIONS OUTLET FLOOR BOX WITH 2 DUPLEX RECEPTACLES AND 3 SINGLE GANG OPENINGS FOR TIVA/. COMBINATION RECEPTACLE COMMUNICATIONS OUTLET FLOOR BOX WITH 2 DUPLEX RECEPTACLES AND 3 SINGLE GANG OPENINGS FOR TIVA/. QUINCTION BOX FOR CONNECTION TO PRE-WIRED SYSTEMS FURNITURE. COORDINATE REQUIREMENTS WITH SYSTEMS FURNITURE PROVIDER. PORCT-TIROUGH FOR CONNECTION TO PRE-WIRED SYSTEMS FURNITURE. COORDINATE REQUIREMENTS WITH SYSTEMS FURNITURE PROVIDER. PUORE DECONNECTION TO PRE-WIRED SYSTEMS FURNITURE. COORDINATE REQUIREMENTS WITH SYSTEMS FURNITURE PROVIDER. PUORE THEOUGH AGOVE SYSTEMS FURNITURE. COORDINATE REQUIREMENTS WITH SYSTEMS FURNITURE PROVIDER. <td>8" AFC OR 42" AFF 18" AFF 8" AFC OR 42" AFF 18" AFF CEILING MOUNTED FLOOR MOUNTED FLOOR MOUNTED FLOOR MOUNTED FLOOR MOUNTED 18" AFF CEILING/ ABOVE CEILING AS REQUIRED PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS</td>	8" AFC OR 42" AFF 18" AFF 8" AFC OR 42" AFF 18" AFF CEILING MOUNTED FLOOR MOUNTED FLOOR MOUNTED FLOOR MOUNTED FLOOR MOUNTED 18" AFF CEILING/ ABOVE CEILING AS REQUIRED PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS PER ARCH. ELEVATIONS

SYMBOL		
	DESCRIPTION	MNTG. HT. UNG
\$	WALL SWITCH SPST, 20A, 120/277V.	48" AFF
\$ _a	WALL SWITCH SPST, 20A, 120/277V. SINGLE LOWERCASE LETTER INDICATES SWITCHING ARRANGEMENT.	48" AFF
\$ _i \$₀	INBOARD/OUTBOARD WALL SWITCHES, SPST. ONE SWITCH SHALL CONTROL INBOARD	48" AFF
\$ 2	DOUBLE-POLE SWITCH WITH CENTER OFF. "UP" POSITION SHALL ENERGIZE LED	48" AFF
\$3	WALL SWITCH, 3-WAY, SINGLE-POLE, DOUBLE-THROW.	48" AFF
¢3 \$.		/8" AFF
Ψ4 ¢		
Φp	WALL SWITCH WITH PILOT LIGHT.	48" AFF
\$w	WALL SWITCH WITH WEATHERPROOF COVER, SINGLE-POLE, SINGLE-THROW.	48" AFF
\$ _{3W}	THREE WAY WALL SWITCH WITH WEATHERPROOF COVER, SINGLE-POLE, SINGLE-THROW.	48" AFF
\$ _⊤	DIGITAL TIMER SWITCH.	48" AFF
\$ _{3T}	THREE WAY DIGITAL TIMER SWITCH.	48" AFF
\$ _∟	LOW VOLTAGE SWITCH.	48" AFF
\$ o	WALL SWITCH OCCUPANCY/VACANCY SENSOR. DUAL-TECHNOLOGY TYPE UON.	48" AFF
\$ ₀₂	WALL SWITCH OCCUPANCY/VACANCY SENSOR, DUAL-RELAY. DUAL-TECHNOLOGY TYPE	48" AFF
D	-UON. WALL BOX DIMMER. TYPE COMPATIBLE WITH LOAD.	48" AFF
 D.		48" AFF
D3	DIMMING WALL SWITCH OCCUPANCY/VACANCY SENSOR, TYPE COMPATIBLE WITH LOAD.	
	DUAL-TECHNOLOGY TYPE UON.	48" AFF
	DUAL-TECHNOLOGY TYPE, CEILING-MOUNTED OCCUPANCY SENSOR.	CEILING
US	ULTRASONIC TYPE, CEILING-MOUNTED OCCUPANCY SENSOR.	CEILING
R	INFRARED TYPE, CEILING-MOUNTED OCCUPANCY SENSOR.	CEILING
đ	DUAL-TECHNOLOGY TYPE, CEILING-MOUNTED VACANCY SENSOR.	CEILING
PS	PHOTOSENSOR FOR DAYLIGHT CONTROL.	AS REQUIRED
®	PHOTOCELL.	AS REQUIRED
LC	LIGHTING CONTACTOR.	AS REQUIRE
тс	TIMECLOCK.	AS REQUIRED
EIR		AS REQUIRED
	LIGHTING MASTER CONTROL STATION WITH NAME DESIGNATION. REFER TO LIGHTING	
	CONTROL SYSTEM SCHEDULE FOR ADDITIONAL INFORMATION.	40 AFF
P51	CONTROL SYSTEM SCHEDULE FOR ADDITIONAL INFORMATION.	48" AFF
\$ _{aa}	LIGHTING RELAY CABINET SCHEDULE FOR ADDITIONAL INFORMATION.	48" AFF
	1 A4, 2 A2, UK 2 X4 [°] I KUFFER. WIDTH AND LENGTH AS INDICATED ON FLOOR PLANS OR LUMINAIRE SCHEDULE.	PER LUMINAIR SCHEDULE
	1'X4', 2'X2', OR 2'X4' VOLUMETRIC DIRECT/INDIRECT TROFFER. WIDTH AND LENGTH AS INDICATED ON FLOOR PLANS OR LUMINAIRE SCHEDULE.	PER LUMINAIR SCHEDULE
	CONTINUOUS LINEAR LUMINAIRE. LENGTH AS INDICATED ON FLOOR PLANS OR LUMINAIRE SCHEDULE.	PER LUMINAIR SCHEDULE
o o	LINEAR PENDANT LUMINAIRE. LENGTH AS INDICATED ON FLOOR PLANS OR LUMINAIRE SCHEDULE.	PER LUMINAIR SCHEDULE
0	ROUND DOWNLIGHT LUMINAIRE. SIZE AS INDICATED ON LUMINAIRE SCHEDULE.	
	SQUARE DOWNLIGHT LUMINAIRE, SIZE AS INDICATED ON LUMINAIRE SCHEDULE	PER LUMINAIR
\bigcirc		SCHEDULE PER LUMINAIR
∇		SCHEDULE PER LUMINAIR
Ю		
	LUNEAR WALL-WOUNTED LUWIINAIRE. LENGTH AS INDICATED ON FLOOR PLANS OR LUMINAIRE SCHEDULE.	SCHEDULE
-01	STRIP LUMINAIRE. LENGTH AS INDICATED ON FLOOR PLANS OR LUMINAIRE SCHEDULE.	PER LUMINAIR SCHEDULE
	LIGHTING TRACK AND TRACK LUMINAIRE. LENGTH TO SCALE.	PER LUMINAIR SCHEDULE
	BATTERY-POWERED EMERGENCY LIGHT.	PER LUMINAIR SCHEDULE
₫ ₫	EXIT LIGHT, CEILING-MOUNTED. DARKENED SECTIONS INDICATE FACES; ARROWS AS	
+ ⊗ + ⊗	EXIT LIGHT, WALL-MOUNTED. DARKENED SECTIONS INDICATE FACES; ARROWS AS	
		PER LUMINAIR
		SCHEDULE PER LUMINAIR
X \$X		SCHEDULE
<u>(H1A:6</u>)	SHALL BE SERVED. REFER TO PANELBOARD SCHEDULES FOR CIRCUITING REQUIREMENTS	, AREA UK KUU }
(LCS-1A)	DENOTES THE LIGHTING RELAY CABINET OR LIGHTING CONTROL SCHEDULE FROM WHICH PROGRAMMABLE LIGHTING WITHIN DESIGNATED AREA OR ROOM ARE SCHEDULED.	ALL ZONED
6	NUMBER INDICATES CIRCUIT NUMBER.	
RT1	LETTER AND NUMBER COMBINATION INDICATES TYPE. REFER TO LUMINAIRE SCHEDULE FOR INFORMATION.	OR ADDITIONAL
а	SINGLE LOWER CASE LETTER INDICATES SWITCH CONTROL.	
аа	DOUBLE LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE AS PART OF PROGRAM	MMABLE
	LIGHTING CONTROL SYSTEM. REFER TO ASSOCIATED SCHEDULE FOR ADDITIONAL INFORM	

NONDER		DAIL
E.000	GENERAL INFORMATION SHEET - ELECTRICAL	
E.001	ELECTRICAL SPECIFICATIONS	
E.002	ELECTRICAL DATA AND FIRE ALARM LEGEND AND DETAILS	
E.119	LEVEL 1 ELECTRICAL POWER PLAN	
E.120	LEVEL 2 ELECTRICAL POWER PLAN	
E.121	LEVEL 3 ELECTRICAL POWER PLAN	
E.122	LEVEL 4 ELECTRICAL POWER PLAN	
E.130	LEVEL 1 ELECTRICAL LIGHTING PLAN	
E.800	ELECTRICAL SCHEDULES	
E.801	ELECTRICAL SCHEDULES	



Α.	GEN 1.	IERAL: COMPLY WITH PROVISIONS OF <u>NFPA 70-202</u> IN CASE OF CONFLICT.
	2.	PROVIDE ACCESS TO EQUIPMENT AND APP
	3.	DO NOT INSTALL PANELBOARDS, POWER P. FROM FLOOR TO THE STRUCTURE ABOVE,
	4.	OPENINGS THROUGH FIRE RATED FLOORS INSTALLATION OF RACEWAYS IN A MANNER
	5.	THE EXISTING INSTALLATION SHALL REMAI
	6.	PERFORM ALL WORK NECESSARY TO INTER THE EXISTING WORK TO THE CHANGES IN
	7.	COORDINATE THE INSTALLATION WITH THE ELIMINATE CONFLICTS.
	0.	LUMINAIRES AND/OR ELECTRICAL OUTLETS CHANGES AS ARE NECESSARY IN THE ELEC THE ARCHITECT AND AT NO EXTRA COST T
	9.	WHERE EXISTING MECHANICAL EQUIPMENT TO THE EQUIPMENT TO ADAPT IT TO ITS NE
	10.	ELECTRICAL MATERIALS SHALL BE NEW AN STANDARDS HAVE BEEN ESTABLISHED AND
	11.	 SHOP DRAWINGS AND CUTS AND/OR DATA EQUIPMENT OR MATERIALS: a. PANELBOARDS b. WIRING DEVICES c. LUMINAIRES d. FIRE ALARM DEVICES PREPARED 1. LAYOUT OF DEVICES 2. DEVICE CIRCUITING INFORMA 3. VOLTAGE DROP CALCULATIO 4. BATTERY CALCULATIONS
	12.	EACH CIRCUIT BREAKER, PANELBOARD, DIS NAMEPLATE AFFIXED. NAMEPLATES SHALL BACKGROUND FOR NORMAL POWER SUPPL EMERGENCY POWER SUPPLY, LETTERS SH
B.	DEN 1.	IOLITION: EQUIPMENT, APPARATUS, AND EXPOSED W REMOVED.
	2.	WHERE EXISTING CEILINGS ARE REMOVED APPARATUS MOUNTED TO THE CEILING OR SHALL BE REMOVED.
	3.	MATERIAL AND EQUIPMENT WHICH HAS BEI INDICATED HEREIN.
	4.	MAINTAIN AND RESTORE, IF INTERRUPTED, AND SERVICING UNDISTURBED AREAS.
	5.	CONCEALED WIRING AND RACEWAYS WHIC CEILINGS SHALL BE REMOVED. NEW CONCI SERVED BY THE REMOVED WIRING AND RA
	6.	WHERE EXISTING MECHANICAL EQUIPMENT ASSOCIATED WITH THE EQUIPMENT SHALL
	7.	WHERE EXISTING MECHANICAL EQUIPMENT EQUIPMENT SHALL BE MODIFIED TO ADAPT
	8.	EXISTING LUMINAIRES REMOVED AND NOT AND SHALL BE STORED ON THE PREMISES
	9.	APPARATUS, WIRING, CONDUIT, AND METAI BUILDING SHALL BE REMOVED WHERE EXP AND SHALL BE REMOVED FROM THE PREMI
C.	DIS(1.	CONNECT SWITCHES: FUSIBLE TYPE SHALL BE HEAVY DUTY, HOF TO WHICH CONNECTED, AND AMPERE RATI MOTOR LOADS 2 HP OR SMALLER OR NONM MOTOR RATED TOGGLE TYPE SWITCHES O TYPE OF LOAD. ENCLOSURES SHALL BE NE WEATHER.
	2.	PROVIDE FUSES IN FUSIBLE EQUIPMENT AN SIZE AND TYPE FUSE Used
D.	WIR 1.	ING DEVICES: DEVICES ON NORMAL POWER CIRCUITS SH
	2.	SINGLE-POLE WALL SWITCHES SHALL BE 27 PS20AC1.
	3.	DUPLEX RECEPTACLES SHALL BE 125 V, WI CONTACTS.
		a. MANUFACTURER, 15 A: COOPER Ab. MANUFACTURER, 20 A: COOPER A
	4.	TAMPER RESISTANT DUPLEX RECEPTACLE INTEGRAL SHUTTERS THAT OPERATE ONLY
	5.	DUPLEX GFCI RECEPTACLES SHALL BE 125 INDICATOR LIGHT. TWO POLE, THREE WIRE DUPLEX RECEPTACLES SHALL HAVE INTEG RECEPTACLE.
	6.	DEVICES SHALL BE BY THE SAME MANUFAC
	7.	THE APPROXIMATE LOCATIONS OF DEVICE DETERMINED AT THE BUILDING. THE ARCHI SWITCH, CEILING OR OTHER OUTLET IN AN
	8.	MOUNTING HEIGHTS OF OUTLETS SHALL BI
	9. 10.	WHERE OUTLETS AT DIFFERENT LEVELS AF DUPLEX RECEPTACLES SHALL GENERALLY DUPLEX RECEPTACLE, THE RECEPTACLE S
	11.	EQUIPMENT ROOMS SHALL BE 20 A RATED. RECEPTACLES ON DEDICATED CIRCUITS FO
E.	12. SWI	SERVICE POLES SHALL BE 120V BRYANT BF TCHBOX MOUNTED OCCUPANCY SENSORS:
	т. 2.	120.
	3.	ADJUSTABLE TIME DELAY UP TO 30 MINUTE
	4.	180 DEGREE FIELD OF VIEW.
	5.	MINIMUM COVERAGE AREA 900 SQUARE FE

	ELECTRICAL SPECIFICATIONS	
2020 AND LOCAL CODES. LOCAL CODES AND REGULATIONS SHALL GOVERN	 F. WALL BOX DIMMERS: 1. MODULAR, FULL-WAVE, SOLID-STATE UNITS WITH INTEGRAL ON-OFF SWITCHES WITH AUDIBLE FREQUENCY AND EMI/RFI SUPPRESSION FILTERS. 	 M. ENCLOSED CIRCUIT BREAKERS: 1. MOLDED CASE BREAKERS SHALL COMPLY WITH UL 489 A AVAILABLE FAULT CURRENTS. BREAKERS SHALL BE MOL BREAKERS 250 A AND LARGER.
PPARATUS REQUIRING OPERATION, SERVICE OR MAINTENANCE. PANELS, TRANSFORMERS, OR STARTERS WITHIN 42" HORIZONTALLY, E, OF PIPING, DUCTWORK AND MECHANICAL EQUIPMENT. AND PARTITIONS SHALL BE SEALED WITH FIRE RATED SEALANT AFTER ER TO MAINTAIN THE FIRE RATING OF THE SEPARATION. AIN EXCEPT WHERE OTHERWISE INDICATED OR SPECIFIED. ERCONNECT THE NEW WORK WITH THE EXISTING WORK AND TO ADAPT N THE BUILDING AND THE SYSTEM. HE STRUCTURE, ARCHITECTURE, AND WORK OF OTHER TRADES TO STWORK, PIPING OR OTHER EQUIPMENT CONFLICT WITH EXISTING TS, SHIFT THE LUMINAIRES AND OUTLETS OR MAKE SUCH OTHER ECTRICAL INSTALLATION TO REMEDY THE CONFLICTS, AS APPROVED BY 'TO THE OWNER. NT IS MODIFIED OR RELOCATED, MODIFY THE ELECTRICAL CONNECTIONS NEW FUNCTION OR LOCATION. AND LISTED BY THE UNDERWRITERS' LABORATORIES, INC. WHEREVER ND LABEL SERVICE IS REGULARLY FURNISHED BY THIS AGENCY. A TO BE SUBMITTED SHALL INCLUDE THOSE ON THE FOLLOWING ITEMS OF	 EMIRFI SUPPRESSION FILTERS. CONTINUOUSLY ADJUSTABLE SLIDER WITH SINGLE POLE SWITCHING. COMPLY WITH UL 1472. LED LAMP DIMMER SWITCHES SHALL BE COMPATIBLE WITH LED LAMPS, INCLUDE A TRIM POTENTIOMETER TO ADJUST LOW-END DIMMING AND BE CAPABLE OF CONSISTENT DIMMING WITH LOW END NOT GREATER THAN 20% OF FULL BRIGHTNESS. DEVICE COVERPLATES: COVERPLATES FOR FLUSH WALL OUTLETS (SWITCH, RECEPTACLE, TELEPHONE, ETC.) SHALL BE TYPE 302 SATIN FINISH STAINLESS STEEL AS MANUFACTURED BY COOPER, HUBBELL, LEVITON, OR P&S. WEATHERPROOF COVERS SHALL BE DIE-CAST ALUMINUM, DESIGNED FOR WET LOCATION PROTECTION WHETHER THE ATTACHMENT PLUG IS INSERTED OR REMOVED. COVERS SHALL BE NEMA 3R RATED WHEN USED WITH THE APPROPRIATE WEATHERPROOF OUTLET BOX. RACEWAYS: CONDUIT SIZES REFER TO THE STANDARD TRADE SIZES, ARE FOR IDENTIFICATION PURPOSES ONLY, AND ARE NOT ACTUAL DIMENSIONS. WIRES SHALL BE INSTALLED IN RACEWAYS UNLESS OTHERWISE SPECIFIED. RACEWAYS SHALL BE RIGID HOT-DIP GALVANIZED RIGID STEEL CONDUIT FOR EXPOSED WORK AND WHERE REQUIRED BY CODE. CONCEALED RIGID RACEWAYS SHALL BE ELECTRICAL METALLIC TUBING, OF ELECTRO OR HOT-DIP GALVANIZED STEEL. RACEWAYS SHALL BE GALVANIZED FLEXIBLE STEEL CONDUIT FOR CONNECTIONS TO MOTORS (MAXIMUM LENGTH 18°). FLEXIBLE CONDUIT EXPOSED TO WEATHER OR SPRAY SHALL BE NEOPRENE JACKETED STEEL, AND INSTALLED WEATHER OR SPRAY SHALL BE NEOPRENE JACKETED STEEL, AND INSTALLED WITH WATERTICHT EXTINGS 	 AVAILABLE FAULT CURRENTS. BREAKERS SHALL BE MOU BREAKERS 250 A AND LARGER. 2. ENCLOSURES SHALL BE NEMA 1 FOR INTERIOR APPLICAT INTERIOR LOCATIONS. N. LUMINAIRES: REFER TO ARCHITECTURAL REFLECTED CEILING PLANS 1 LUMINAIRES UTILIZED DURING CONSTRUCTION SHALL BE EXISTING LUMINAIRES TO BE REUSED SHALL BE CLEANE THOSE USED IN THE NEW CONSTRUCTION. PROVIDE SEPARATE NEUTRALS FOR DIMMED CIRCUITS. SEE ARCHITECTURAL SECTIONS AND ELEVATIONS FOR E CEILING-MOUNTED LUMINAIRES SHALL BE INDEPENDENT MAINTAIN, ON SITE, A COMPREHENSIVE SET OF DRAWING VERIFY CODE COMPLIANCE OF EXISTING CONDITIONS. IF UTILIZED IN TENANT CONSTRUCTION IS FOUND TO BE DE CODES, NOTIFY THE ARCHITECT IN WRITING WITHIN 5 WG VERIFY THE LOAD ON EXISTING CIRCUITS TO BE MODIFIE OVERCURRENT PROTECTION DEVICES ARE NOT EXCEED READINGS OF CURRENT WITH HARMONICS SHALL BE USI CONDITIONS IN WRITING WITHIN 5 WORKING DAYS.
D AND SEALED BY NICET LEVEL III DESIGNER INCLUDING: MATION IONS DISCONNECT SWITCH, OR OTHER DEVICE SHALL HAVE AN IDENTIFYING LL BE LAMINATED PLASTIC, WHITE ENGRAVED LETTERS ON BLACK IPLY AND WHITE ENGRAVED LETTERS ON RED BACKGROUND FOR	 COORDINATE EXACT REQUIREMENTS FOR CONNECTION OF MODULAR OFFICE FURNITURE PANELS WITH THE PARTICULAR SUPPLIER, AND MAKE FINAL CONNECTIONS. PROVIDE A COMPLETE RACEWAY SYSTEM WITH PULL LINES IN CONDUIT FOR DATA AND/OR COMMUNICATION OUTLETS. JUNCTION BOXES INSTALLED FOR FUTURE USE SHALL BE PROVIDED WITH BLANK COVERPLATES. CONNECTORS AND COUPLINGS FOR RIGID CONDUIT SHALL BE THREADED GALVANIZED STEEL. INSULATED 	 LUMINAIRES, LAMPS, BALLASTS, DEVICES AND EQUIPMEN INSTALLED SHALL BE TURNED OVER TO THE OWNER. WORK SHALL BE NEAT IN APPEARANCE, PLUMB, LEVEL AI ARCHITECT SHALL IMMEDIATELY BE REMOVED AND REPL
SHALL BE 0.25" HIGH. WIRING AND RACEWAYS RENDERED USELESS DUE TO CHANGES SHALL BE D, LUMINAIRES, EXIT SIGNS, AND OTHER ELECTRICAL POWER AND SIGNAL DR CEILING SUPPORTS, INCLUDING ASSOCIATED RACEWAYS AND WIRING,	 BUSHINGS SHALL BE INSTALLED ON RIGID CONDUIT CONNECTORS IN CABINETS, OUTLET BOXES AND PULL BOXES. 11. FITTINGS FOR ELECTRICAL METALLIC TUBING SHALL BE STEEL TYPE WITH INSULATED THROAT CONNECTORS AND SHALL BE CODE APPROVED FOR EACH SPECIFIC APPLICATION. 12. CONNECTORS FOR FLEXIBLE STEEL CONDUIT (NONWATERTIGHT) SHALL BE OF THE TWIST-IN, INSERTION TYPE, WITH INSULATED THROAT. 13. CONCEALED RACEWAYS NOT IN SLABS OR WALLS SHALL BE SUPPORTED WITH CLAMPS ON HANGERS AT 8' OR LESS INTERVALS. 	
BEEN REMOVED SHALL NOT BE USED IN THE NEW WORK, EXCEPT AS D, ALL CONDUITS AND FEEDERS PASSING THROUGH RENOVATED AREAS NICH ARE EXPOSED BY THE REMOVAL OF WALLS, PARTITIONS, AND CEALED WIRING AND RACEWAYS SERVING EXISTING LOADS PRESENTLY RACEWAYS SHALL BE PROVIDED.	 IN GENERAL, THE CONDUIT INSTALLATION SHALL FOLLOW THE LAYOUT INDICATED. THIS LAYOUT IS, HOWEVER, DIAGRAMMATIC ONLY, AND WHERE CHANGES ARE NECESSARY DUE TO STRUCTURAL CONDITIONS, OTHER APPARATUS, OR OTHER CAUSES, SUCH CHANGES SHALL BE MADE WITHOUT ANY ADDITIONAL COST TO THE OWNER. OFFSETS IN CONDUITS ARE NOT INDICATED AND MUST BE FURNISHED AS REQUIRED. PULL LINES SHALL BE INSTALLED IN EMPTY RACEWAYS. AT EACH END, LEAVE 12" OF SLACK COILED IN BOX OR AT END OF RACEWAYS. WIRING: 	
IL BE REMOVED, ELECTRIC WIRING, RACEWAYS, SWITCHES AND STARTERS LL BE REMOVED. NT IS MODIFIED OR RELOCATED, ELECTRICAL CONNECTIONS TO THE PT THEM TO THEIR NEW FUNCTION OR LOCATION. NT REUSED ELSEWHERE SHALL REMAIN THE PROPERTY OF THE OWNER IS AS DIRECTED. TAL MOLDING RENDERED USELESS DUE TO CHANGES IN THE EXISTING (POSED TO VIEW, SHALL BECOME THE PROPERTY OF THE CONTRACTOR, MISES.	 NO WIRE SHALL BE SMALLER THAN #12 AWG UNLESS OTHERWISE INDICATED. WIRE AND CABLE SHALL BE ANNEALED SOFT DRAWN COPPER AND HAVE A CONDUCTANCE OF 98%. SPLICES, TAPS AND TERMINATIONS: a. SPLICES AND TAPS IN BRANCH CIRCUIT CONDUCTORS, #12 AWG THROUGH #8 AWG, SHALL BE MADE WITH MECHANICAL PRESSURE CONNECTORS. b. TERMINATIONS OF STRANDED COPPER CONDUCTORS SHALL BE MADE WITH COPPER COMPRESSION OR INDENTOR TYPE LUGS OR WITH MECHANICAL PRESSURE LUGS. c. JOINTS SHALL BE COVERED WITH 7 MIL ELECTRICAL TAPE ON BRANCH CIRCUIT WIRING CONNECTIONS, AND 10 MIL ELECTRICAL TAPE ON MECHANICAL AND INDENT CONNECTORS ON LARGER CABLES. PATENTED PLASTIC CONNECTION COVERS MAY BE USED FOR CONNECTORS IF APPROVED BY LOCAL AUTHORITY UNDEDUCTION. 	
DRSEPOWER RATED, OF VOLTAGE RATING EQUAL TO VOLTAGE OF CIRCUIT TING AS INDICATED. NONFUSIBLE TYPE SHALL BE SIMILAR, EXCEPT FOR NMOTOR LOADS CONNECTED TO A 20 A OR SMALLER CIRCUIT MAY BE OR NONAUTOMATIC CIRCUIT BREAKERS, UL LISTED FOR EACH SPECIFIC NEMA TYPE 1 INDOORS, AND NEMA TYPE 3R WHERE EXPOSED TO AND DEVICES. PROVIDE TO THE OWNER, AS SPARES, 3 FUSES OF EACH	 4. WIRE SHALL BE COLOR-CODED TO INDICATE THE VARIOUS PHASES AND NEUTRAL. WHERE COLOR-CODING IS IMPRACTICAL, 0.75" WIDE TAPE BANDS SHALL BE PROVIDED. 5. COLOR-CODING FOR THE VARIOUS SYSTEMS SHALL BE AS FOLLOWS: FOR 208/120 V SYSTEM: FOR 480/277 V SYSTEM: PHASE A - BLACK PHASE A - BROWN PHASE B - RED PHASE A - BROWN PHASE B - RED PHASE B - ORANGE PHASE C - BLUE PHASE C - YELLOW NEUTRAL - WHITE NEUTRAL - WHITE 	
SHALL BE GRAY IN COLOR. DEVICES ON EMERGENCY POWER CIRCUITS 277 V, 20 A, COOPER 2221, HUBBELL HBL1221, LEVITON 1221-2, OR P&S WITH ONE-PIECE SOLID BRASS MOUNTING STRAP WITH INTEGRAL GROUND AH5262, HUBBELL HBL5262, LEVITON 5262, OR P&S 5262A. AH5362, HUBBELL HBL5362, LEVITON 5362, OR P&S 5362A LES SHALL BE 125V, 20A, TWO POLE, THREE WIRE, SELF GROUNDING WITH LY WHEN A PLUG IS INSERTED IN THE RECEPTACLE.	 GROUND - GREEN GROUND - GREEN 6. ISOLATED GROUND CONDUCTORS SHALL BE SO INDICATED BY GREEN WITH WHITE STRIPE COLOR-CODING. 7. INSULATION SHALL BE NEC TYPE THWN/THHN. 8. FIRE ALARM WIRING: a. FIRE ALARM WIRING SPECIFICATION SHALL BE PER FIRE ALARM SHOP DRAWINGS. b. WIRING SHALL BE CLASS B UNLESS OTHERWISE NOTED. c. WIRING SHALL BE TYPE FPL/FPLR WIRING. WIRING IN NON-ACCESSIBLE AREAS SHALL BE RAN IN METAL CONDUIT MARKED WITH RED TAPE. J. METAL-CLAD CABLE: 1. METAL-CLAD CABLE INCLUDING GREEN INSULATED GROUND WIRE MAY BE USED WHERE PERMITTED BY CODE FOR 	
25V, 20A WITH INTEGRAL GFCI WITH "TEST" AND "RESET" BUTTONS AND LED RE, SELF GROUNDING, NON-FEED THROUGH TYPE. TAMPER RESISTANT GRAL SHUTTERS THAT OPERATE ONLY WHEN A PLUG IS INSERTED IN THE ACTURER. 26 OUTLETS ARE INDICATED. THE EXACT LOCATIONS SHALL BE HITECT RESERVES THE RIGHT TO CHANGE THE EXACT LOCATION OF ANY NY ROOM BEFORE IT IS PERMANENTLY INSTALLED. BE AS INDICATED MEASURED TO THE CENTERLINE OF THE OUTLET. ARE SHOWN ADJACENT, THEY SHALL BE INSTALLED IN ONE VERTICAL LINE.	 LUMINAIRE AND RECEPTACLE BRANCH CIRCUIT WORK IN STUD PARTITIONS AND IN CEILING CONSTRUCTION. ADAPTORS SHALL BE USED AT CONNECTIONS TO BOXES AND TO OTHER RACEWAYS. WHERE METAL-CLAD CABLE FEEDS OUTLETS LOCATED IN MASONRY WALLS, A PIECE OF CONDUIT SHALL BE INSTALLED FOR THAT PORTION OF THE RUN IN OR ON THE MASONRY, THE METALLIC SHEATH SHALL BE STRIPPED FROM THE CABLE AND THE CABLE THREADED INTO THE CONDUIT AND A CABLE TO CONDUIT COUPLING SHALL BE INSTALLED IN ORDER TO BOND THE METALLIC SHEATH TO THE CONDUIT. SUPPORT METAL-CLAD CABLE ABOVE SUSPENDED CEILINGS IN ACCORDANCE WITH NATIONAL AND LOCAL CODES. EQUIPMENT GROUNDS: EQUIPMENT, ENCLOSURES AND RACEWAYS SHALL BE GROUNDED. A GREEN COLORED OR GREEN IDENTIFIED GROUNDING CONDUCTOR SHALL BE INSTALLED IN RACEWAYS WITH THE PHASE CONDUCTORS. 	
SHALL BE 20 A RATED. DUPLEX RECEPTACLES IN CORRIDORS AND D. FOR SPECIFIC ITEMS OF EQUIPMENT SHALL HAVE THE EQUIPMENT NAME HE DEVICE PLATE. 3RYPP10A, LEGRAND 25DTP-4ACT, PGLIFELINK PP155-XC-XDXC-XN. S: AND ULTRASONIC). TES.	 BOND GROUND CONDUCTORS AT ORIGIN OF CIRCUITS, AT INTERMEDIATE PULL BOXES, AND TO PANELBOARDS OR EQUIPMENT AT TERMINATIONS. PANELBOARDS: BUSWORK SHALL BE COPPER. PROVIDE GROUND BUS BARS IN CABINETS. PROTECTIVE DEVICES IN PANELBOARDS SHALL BE MOLDED CASE THERMAL-MAGNETIC, AUTOMATIC CIRCUIT BREAKERS OF FRAME TYPES, NUMBER POLES, TRIP RATINGS AND QUANTITIES AS INDICATED. MAIN AND BRANCH BREAKERS SHALL BE RATED FOR THE FAULT CURRENT LEVEL INDICATED, MINIMUM 10000 A RMS SYMMETRICAL FOR 208 V OR 120 V AC, AND 14000 A RMS SYMMETRICAL FOR 480 V OR 277 V AC. SPACES FOR FUTURE BREAKERS SHALL BE EQUIPPED WITH HARDWARE TO ACCEPT BREAKERS, AND SHALL BE BUSSED TO ACCEPT A MINIMUM 60 A BREAKER WITHOUT REVISIONS, UNLESS OTHERWISE INDICATED. PANELBOARDS SHALL BE BY THE SAME MANUFACTURER AS EXISTING. UNLESS OTHERWISE INDICATED, INSTALL TOP OF PANELBOARD CABINETS 6'-6" ABOVE THE FINISHED FLOOR. 	
	7. UNLESS OTHERWISE INDICATED, INSTALL TOP OF PANELBOARD CABINETS 6'-6" ABOVE THE FINISHED FLOOR.	

CUIT BREAKERS: CASE BREAKERS SHALL COMPLY WITH UL 489 AND NEMA AB 3 WITH AN INTERRUPTING RATING TO MEET LE FAULT CURRENTS. BREAKERS SHALL BE MOLDED CASE WITH ADJUSTABLE TRIP SETTING FOR RS 250 A AND LARGER.

SURES SHALL BE NEMA 1 FOR INTERIOR APPLICATIONS AND NEMA 3R FOR EXTERIOR OR WET OR DAMP OR LOCATIONS.

O ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LUMINAIRES. RES UTILIZED DURING CONSTRUCTION SHALL BE RELAMPED PRIOR TO ACCEPTANCE BY THE OWNER. LUMINAIRES TO BE REUSED SHALL BE CLEANED AND RELAMPED. LAMPS AND BALLASTS SHALL MATCH SED IN THE NEW CONSTRUCTION.

CHITECTURAL SECTIONS AND ELEVATIONS FOR EXACT LOCATIONS OF WALL-MOUNTED LUMINAIRES. MOUNTED LUMINAIRES SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE.

I, ON SITE, A COMPREHENSIVE SET OF DRAWINGS WITH AS-BUILT CONDITIONS CLEARLY INDICATED IN RED. CODE COMPLIANCE OF EXISTING CONDITIONS. IF ANY OF THE EXISTING ELECTRICAL INSTALLATION TO BE D IN TENANT CONSTRUCTION IS FOUND TO BE DEFECTIVE OR IN VIOLATION OF NATIONAL, STATE OR LOCAL NOTIFY THE ARCHITECT IN WRITING WITHIN 5 WORKING DAYS.

HE LOAD ON EXISTING CIRCUITS TO BE MODIFIED AND/OR REUSED TO ENSURE THAT THE RATINGS OF THE RRENT PROTECTION DEVICES ARE NOT EXCEEDED. A TRUE-RMS AMMETER WHICH GIVES WIDE BANDWIDTH S OF CURRENT WITH HARMONICS SHALL BE USED. NOTIFY THE ARCHITECT OF ANY OVERLOAD ONS IN WRITING WITHIN 5 WORKING DAYS.

RES, LAMPS, BALLASTS, DEVICES AND EQUIPMENT PURCHASES FOR TENANT CONSTRUCTION AND NOT D SHALL BE TURNED OVER TO THE OWNER.

ALL BE NEAT IN APPEARANCE, PLUMB, LEVEL AND TRUE. ANY WORK DEEMED UNSATISFACTORY BY THE SHALL IMMEDIATELY BE REMOVED AND REPLACED.



ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.										
SYMBOL	DESCRIPTION	MNTG. HT. UNO								
\mathbf{V}	VOICE AND DATA OUTLET.	18" WALL AFF								
\mathbf{A}	VOICE AND DATA OUTLET, ABOVE COUNTER.	8" WALL AFC OF 42" WALL AFF								
TV V	DATA OUTLET AND COAX CABLE.	72" WALL AFF								
\mathbf{v}	FLOOR MOUNTED VOICE AND DATA OUTLET.	FLOOR								
-\$-	CEILING MOUNTED VOICE AND DATA OUTLET.	ABOVE ACCESSIBLE CEILING								
	COMBINATION RECEPTACLE/COMMUNICATIONS OUTLET FLOOR BOX WITH 2 DUPLEX RECEPTACLES AND 3 SINGLE GANG OPENINGS FOR IT/AV. PROVIDE (1) VOICE/DATA OUTLET IN ONE OF SINGLE GANG SPACES. SEE NOTE 4.	FLOOR								
	DATA NOTES									
REFER TO ALL BOXES WITH FAC PROVIDE (PROVIDE (ALL EMPT	ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES. S TO BE 4" SQUARE BOXES WITH SINGLE GANG ADAPTER FOR SPECIFIED OUTLET. CONFIRM A LITY I.S. GROUP OR I.S. CONTRACTOR PRIOR TO ELECTRICAL ROUGH-IN. 1) 1" CONDUIT FROM ALL DEVICE BACKBOXES TO ABOVE ACCESSIBLE CEILING. 1) 1" CONDUIT FROM EACH IT/AV GANG OPENING WITHIN EACH FLOOR BOX TO ABOVE ACCES 2) 1" CONDUITS FROM ALL TV OUTLETS TO ABOVE ACCESSIBLE CEILING. 4 CONDUITS AND SLEEVES SHALL HAVE NYLON BUSHINGS AT BOTH ENDS AND NYLON PULLC	ALL BACKBOX SIZE SIBLE CEILING. DRD.								

	ELECTRONIC SAFETY & SECURITY DEVICE LEGEND
SYMBOL	DESCRIPTION
	PROVIDE DATA OUTLET TO SUPPORT CCTV CAMERA PROVIDED BY OWNER. COORDINATE THE CAMERA REQUIREMENTS WITH OWNER.
CR	DOUBLE GANG BOX WITH SINGLE GANG PLASTER RING TO SUPPORT OWNER PROVIDED AND INSTALLED CARD READER - REFER TO DETAIL THIS SHEET FOR ADDITIONAL WORK.
	DOUBLE GANG BOX WITH SINGLE GANG PLASTER RING TO SUPPORT OWNER PROVIDED AND INSTALLED INTERCOM
KP	DOUBLE GANG BOX WITH SINGLE GANG PLASTER RING TO SUPPORT OWNER PROVIDED AND INSTALLED KEYPAD
ML	ELECTRIFIED HARDWARE PROVIDED UNDER DIV 8, PROVIDE ELECTRICAL CONNECTION PER MANUFACTURER'S REQUIREMENTS.
DR	DOUBLE GANG BOX WITH SINGLE GANG PLASTER RING TO SUPPORT OWNER PROVIDED AND INSTALLED DOOR RELEASE PUSHBUTTON
EL	DOUBLE GANG BOX WITH SINGLE GANG PLASTER RING TO SUPPORT OWNER PROVIDED AND INSTALLED EMERGENCY LOCK PUSHBUTTON.
VC	DOUBLE GANG BOX WITH SINGLE GANG PLASTER RING TO SUPPORT OWNER PROVIDED AND INSTALLED VIDEO CALL STATION.
SECURITY NOTES	<u>.</u>
1. COORDII	NATE SECURITY DEVICE LOCATIONS WITH SECURITY CONTRACTOR. LOCATIONS SHOWN ON
2. CONTRA VENDOR	CTOR SHALL COORDINATE FINAL LOCATIONS WITH THE ARCHITECT AND SECURITY DEVICE

COORDINATE RACEWAY REQUIREMENTS AND ROUTING WITH OWNER PRIOR TO ROUGH-IN. 3. ALL EMPTY CONDUITS AND SLEEVES SHALL HAVE NYLON BUSHINGS AT BOTH ENDS AND NYLON 4.

PULLCORD.

	FIRE ALARM SYSTEM DESIGN
FIRE ALARM SYSTEMS IS A DELEGATED PLACEMENT OF FIRE ALARM DEVICES A PURPOSES. THE FINAL FIRE ALARM PLA NICET LEVEL III CERTIFIED DESIGNER; F DESIGNER SHALL PROVIDE ALL DEVICE REQUIRED FOR A COMPLETE SYSTEM. COMPLIANCE WITH NATIONAL AND LOC SHALL PROVIDE AN ADD ALTERNATE PF	DESIGN. THESE DRAWINGS ARE INTENDED TO SHOW GENERAL GUIDELINES FOR THE AS THEY RELATE TO OTHER (NON-FIRE ALARM) SYSTEMS AND FOR PERMITTING ANS TO BE SUBMITTED FOR AHJ APPROVAL SHALL BE PRODUCED AND SEALED BY A REFER TO THE ELECTRICAL SPECIFICATIONS FOR FURTHER REQUIREMENTS. THE S SHOWN ON THESE DRAWINGS AND ANY ADDITIONAL DEVICES OR COMPONENTS IF OTHER DEVICES ARE ANTICIPATED TO BE REQUIRED FOR SYSTEM FUNCTIONALITY, AL CODES OR APPROVAL OF THE AHJ, THE CONTRACTOR SHALL QUALIFY THEIR BID AN RICE MAKING NOTE OF THE SPECIFIC ANTICIPATED ADDITIONAL REQUIREMENTS.
BUILDING CODE:	2018 IBC WITH GEORGIA AMENDMENTS
FIRE CODE:	2018 IFC
ELECTRICAL CODE:	2023 NFPA 70 (NEC)
BUILDING CONSTRUCTION TYPE:	TYPE 1A - FULLY SPRINKLERED

SPRINKLER WATER FLOW VALVE TAMPER SWITCH (INCL FIRE ALARM AC POWER FAILU FIRE ALARM SYSTEM LOW BAT OPEN CIRCUIT GROUND FAULT 13 NOTIFICATION APPLIANCE SH 14 FACP LOSS OF AC POWER 2 FIRE ALARM FUNCTIONAL MATRIX 12" = 1'-0" SIGNAL / POWER CABLES IN 0.5" CONDUIT TO -JUNCTION BOX OR DOOR CONTROL MODULE ENCLOSURE UNSECURE SIDE: 1. PRESENT VALID CREDENTIAL SHALL: A. UNLOCK DOOR B. SHUNT ALARM 2. UPON CLOSING THE DOOR SHALL: A. LOCK B. REARM

1 CARD READER DETAIL - SINGLE DOOR 3/32" = 1'-0"

							С	ONTROL UNI	IT ANNUN		1	NO	TIFICATIO	N		REQUIRED FIRE SAFETY CONTROL
			TE COMME	NALASMALAS	MALINOCHOR ARMSONAL ONNONSUPERIE	OPT SONT SONT SONT SONT SONT SONT SONT SON	ANDCATOR AND	NOCATOR NOCATOR NEWSCHWERS NEWSCHWERS NEWSCHWERS NEWSCHWERS NEWSCHWERS	AL STRUS AM STRUS OF STATUS CHARMON	ALTONIA ALTONIA ALTONIA	ERVENCESTRIN ERVENCESTRIN INNET CONTROL INNET CONTROL INNET CONTROL INNET CONTROL	M STA	TON OF CALL	A ALLANDER OF THE OF TH	ALLO ALLO ALLO ALLO ALLO ALLO ALLO ALLO	St ACUNIT SECURITIUM TERMET SECURITIUM TO THE AND
	SYSTEM INPUTS	A	B C	ACTUR P	E F	CTUR PC	TUR DISPUE	TRANS' TRA	K L	REFERSE M	PECAL ^L PECA		shirty c	R R	S S	S AN CHEL
	MANUAL FIRE ALARM PULL STATION						• •		•)						
	SMOKE DETECTOR	\bullet					• •		•				\bullet	\bullet		
	SMOKE DETECTOR (ELEV LOBBY/MACHINE RM)	\bullet					• •		•							
	HEAT DETECTOR (ELEVATOR MACHINE ROOM)															
	HEAT DETECTOR												\bullet	\bullet		
	IN-DUCT SMOKE DETECTORS			•												
_	SPRINKLER WATER FLOW						• •									
_	VALVE TAMPER SWITCH (INCLUDING PIV)						•									
	FIRE ALARM AC POWER FAILURE				• •				•							
	FIRE ALARM SYSTEM LOW BATTERY				• •				•							
)	OPEN CIRCUIT				• •				•							
)	GROUND FAULT				• •				•							
2		1				1									1	
	NOTIFICATION APPLIANCE SHORT CIRCUIT															











A. BRANCH CIRCUIT WIRING SHALL BE A MINIMUM OF 3#12 CONDUCTORS INCLUDING GROUND CONDUCTORS UNLESS OTHERWISE INDICATED OR AS INDICATED BELOW: B. VERIFY EXACT LOCATION OF POWER, DATA, AND VOICE (TELEPHONE) OUTLETS WITH ARCHITECTURAL DRAWINGS. COORDINATE DISCREPANCIES WITH THE ARCHITECT AND ENGINEER. COORDINATE FINISH COLORS OF ALL DEVICES WITH THE ARCHITECT. C. REFER TO ARCHITECTURAL ELEVATIONS TO DETERMINE ORIENTATION OF ABOVE COUNTER RECEPTACLES, I.E. HORIZONTAL . REFER TO ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS FOR GUIDANCE AND VERIFICATION OF DIMENSIONS, CEILING HEIGHTS, DOOR SWINGS, ROOM FINISHES AND LOCATION OF DUCTWORK, PIPES, STRUCTURAL STEEL, EQUIPMENT, E. PENETRATIONS OF STRUCTURAL ELEMENTS, WALLS, FLOORS AND ROOFS FOR THE PASSAGE OF RACEWAYS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. PENETRATIONS SHALL BE PROPERLY SEALED AFTER INSTALLATION SO AS TO F. INSTALL WALL LIGHTING FIXTURES, WALL SWITCHES, WALL OUTLETS AND OTHER WALL MOUNTED EQUIPMENT IN STRICT COORDINATION WITH DETAILS, SECTIONS, ELEVATIONS AND ROOM FINISHES SHOWN ON ARCHITECTURAL DRAWINGS. G. WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN NEAR DATA OUTLETS SHALL BE LOCATED WITHIN SIX (6) INCHES H. CIRCUIT DESIGNATION IS BASED UPON FIELD INVESTIGATION OF CIRCUIT BREAKERS, CIRCUIT DIRECTORIES, AND EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY THAT ASSIGNED CIRCUITS ARE AVAILABLE AND MAINTAIN THE INTEGRITY OF MEMBRANE PENETRATIONS OF MAXIMUM 2-HOUR FIRE-RESISTANCE-RATED WALLS AND PARTITIONS BY STEEL ELECTRICAL BOXES SHALL BE IN ACCORDANCE WITH IBC ARTICLE 714.4.2. WHERE THE SPACING REQUIREMENTS OF THIS ARTICLE CANNOT BE MET, STEEL BOXES SHALL BE PROTECTED WITH UL LISTED PUTTY PADS OR BY OTHER LISTED MATERIALS AND DESIGNATION 'EX' REPRESENTS EXISTING DEVICE OR LIGHT FIXTURE TO REMAIN AS CIRCUITED AND SWITCHED UNLESS K. EXISTING RACEWAYS AND ELECTRICAL BOXES IN GOOD CONDITION MAY BE REUSED FOR NEW DEVICES IF IN APPROXIMATE LOCATION AS DEVICES . EXISTING CONDITIONS TO REMAIN. ALL NEW WORK INSTALLED TO MEET CURRENT CODE REQUIREMENTS. PRELIMINARY ANNOTATIVE SET WAS

0' 2' 4' 8'
GENERAL NOTES
 A. BRANCH CIRCUIT WIRING SHALL BE A MINIMUM OF 3#12 CONDUCTORS INCLUDING GROUND CONDUCTORS UNLESS OTHERWISE INDICATED DR SI INDICATED BELOW: A. FOR 120V, 20A CIRCUITS 75 OR GREATER PROVIDE #10 AWG HOMERUN CONDUCTORS. B. FOR 120V, 20A CIRCUITS 150 OR GREATER PROVIDE #10 AWG HOMERUN CONDUCTORS. B. FOR 120V, 20A CIRCUITS 150 OR GREATER PROVIDE #10 AWG HOMERUN CONDUCTORS. B. VERIFY EXACT LOCATION OF POWER, DATA. AND VOICE (TELEPHONE) OUTLETS WITH ARCHITECTURAL DRAWINGS. COORDINATE DISCREPANCIES WITH THE ARCHITECTURAL ELEVATIONS TO DETERMINE ORIENTATION OF ABOVE COUNTER RECEPTACLES, I.E. HORIZONTAL OR VERTICAL. D. REFER TO ARCHITECTURAL STRUCTURAL AND MECHANICAL DRAWINGS FOR GUIDANCE AND VERIFICATION OF DIMENSIONS, CELIUNG HEIGHTS, DOOR SWINGS, ROOM FINISHES AND LOCATION OF DUCTWORK, PIPES, STRUCTURAL STEEL, EQUIPMENT, CABINET WORK AND PURNITURE. E. PENETRATIONS OF STRUCTURAL ELEMENTS, WALLS, FLOORS AND ROOFS FOR THE PASSAGE OF RACEWAYS SHALL BE APPROVED BY THE STRUCTURAL ELEMENTS, WALLS, FLOORS AND ROOFS FOR THE PASSAGE OF RACEWAYS SHALL BE APPROVED BY THE STRUCTURAL ELEMENTS, WALLS, FLOORS AND ROOFS FOR THE PASSAGE OF RACEWAYS SHALL BE APPROVED BY THE STRUCTURAL ELEMENTS, WALLS, FLOORS AND ROOFS FOR THE PASSAGE OF RACEWAYS SHALL BE APPROVED BY THE STRUCTURAL ELEMENTS, WALLS, FLOORS AND ROOFS FOR THE PASSAGE OF RACEWAYS SHALL BE APPROVED BY THE STRUCTURAL ELEMENTS, WALLS UTCHES, WALL OUTLETS AND OTHER WALL MOUNTED EQUIPMENT IN STRICT COORDINATION WITH DETAILS, SECTIONS, ELEVATIONS AND ROOM FINISHES SHOWN ON ARCHITECTURAL DRAWINGS. G. WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN ON ARCHITECTURAL DRAWINGS. G. WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN ON ARCHITECTURAL DRAWINGS. G. WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN ON ARCHITECTURAL DRAWINGS. G. WALL AND FLOOR MOUNTED POWER SHOED FOR DATE WALL MOUNTED EQUIPMENT IN STRICT CORDINATION WITH DETAILS, SECTIONS, AND

GRAPHIC SCALE: 1/4" = 1'

BUSSING MAIN: AIC RATI SCCA:	6: 800/ 800/ NG: 65k/ 24.2	A AT/8 AIC 2kA	300AF MCB (LSI)				480	Y/277 V	OLTS,	3 PHA	SE, 4 V	WIRE				MOUNT SECTI LOCAT FED FF	'ING: SUR ONS: 1 'ION: ELE ROM: UTIL	RFACE C RM
CKT NO.	LOAD TYPE		DE	LOAD ESCRIPTION	TRIP RATING	# OF POLES		Α	В		С		# OF POLES	TRIP Rating	LOAD DESCRIPTIO	N	LOAD TYPE	CK NC
1		ELI	EVATOR			3		472					3	100 A		T-B	HVAC;	2
3										471								4
5												471						(
7	HVAC;	T-C	2		100 A	3	3697	298					3	100 A		T-D	HVAC;	
9									624	278								
11											599	281						
13	Spare;	А			20 A	3	4568	133	-				3	20 A		EF-1	MTRS	
15									466	133								·
17											346	133						
19	HVAC	DC	DAS-1		20 A	3	1940	341					3	110 A		CU-1	HVAC	2
21									194	341								
23											194	341						
25	HVAC	H-1	1		35 A	3	7150	715					3	35 A		H-2	HVAC	
27									715	715								
29											715	715						
31	HVAC	H-:	3		35 A	3	/150	/15	745	745			3	35 A		H-4	HVAC	
33									/15	/15	745	745						
35											/15	/15						
31		SP				1							1			SPACE		
39 11		SP.				1							1			SPACE		
41				τοται		I			SEBL				I		DHASE			
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		-	111010.00 V					ī	110000			-				041.00 111		
	LOAD TY	PE	С	ONNECTED LOAD	DEMAN	D FACTOR		ES	STIMAT	ED DE	MAND							
	HVAC			264635 VA	100	0.00%	-		264	1635 V/	4							
	RCPTS			44340 VA	61	.28%			27	170 VA	1			Г	CONNECTED	LOAD SUMMAR	Y	
	LTS			11929 VA	12:	5.00%			14	911 VA	1				352	516.53 VA		
	MTRS			5591 VA	11	7.85%			65	588 VA					4	24.01 A		
	HEAT			20160 VA	100	0.00%			20	160 VA	۱				ESITMATED DEN	IAND LOAD SUM	MARY	
MISC 6008 VA				100	0.00%			60	008 VA					339	292.04 VA			
	L			27 VA	12:	5.00%			3	33 VA					2	108.1 A		
EXISTII 248.17	NG LOAD KVA METE	BAS ERE	SED ON MAX D ON						E	XISTIN	/IG MD	P PAN	EL METER	ING DATA				
PANELI 125% F TOTAL	BOARD UI ACTOR A OF 310.21	PST PPF 1 KV	REAM, THEN A PLIED FOR A 'A. METERING		TOTAL DE	SIGN KVA		LOAD	ADDE	D	N	ET CH/	ANGED	то	TAL LOAD		OTAL CAP	PACI
TOTAL OF 310.21 KVA. METERING PERFORMED BETWEEN PERIOD 01/14/2025 - 02/13/2025		TOTAL DESIGN KVA	310.21 KVA			352.5 KVA			269.4 KV/		KVA 57		9.61 KVA	$\sim [$	665 KVA	4		

						(EX	() /	1						
BUSSINC MAIN: AIC RATI SCCA:	6: 100/ 100/ NG: EXIS EXIS	A A MLO STING STING			480Y	7/277 V	OLTS,	3 PHA	SE, 4 \	WIRE			MOUNTI SECTIC LOCATI FED FR	NG: SUR NS: 1 ON: OM: MDF	FACE
CKT NO.	LOAD TYPE	LOAD DESCRIPTION	TRIP RATING	TRIP # OF A B C						С	# OF POLES	TRIP RATING	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
1	LTS	LTS - FIRST FLOOR (EX)	20 A	1	1000	10					1	20 A	(EX) LTS - BASEMENT CORRIDOR	LTS	2
3	LTS	LTS - FIRST FLOOR (EX)	20 A	1			50	83			1	20 A	LTS - 3RD FLOOR CORRIDOR	LTS	4
5	LTS; L	LTS - 3RD FLOOR OFFICES & RR	20 A	1					17	10	1	20 A	(EX) LTS - OUTSIDE	LTS	6
7	LTS	LTS - FIRST FLOOR (EX)	20 A	1	500	11					1	20 A	LTS - 2ND FLOOR CORRIDOR	LTS	8
9	LTS	LTS - 2ND FLOOR COLLAB, RR, OFFICES	20 A	1			16	72			1	20 A	LTS - 4TH FLOOR CORRIDOR	LTS	10
11	LTS	LTS - 4TH FLOOR OFFICES & RR	20 A	1					70	89	9 1 20 A LTS- OFFICE 1-01 LTS				12
13	LTS	LTS - STAIRWELL (EX)	20 A	1	1000	0 VA					3	100 A	SPARE		14
15	HEAT	STAIRWELL HEATER (EX)	20 A	1			10	0 VA							16
17		SPARE	20 A	1					0 VA	0 VA					18
19		SPARE	20 A	1	0	0 VA					1	20 A	SPARE		20
21		SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE		22
23		SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE		24
		PHASE A LOAD TOTAL				PHAS	SE B LO	DAD T	OTAL				PHASE C LOAD TOTAL		
		4568.46 VA					4663.4	41 VA					3461.92 VA		
	LOAD TY	PE CONNECTED LOAD	DEMAN	D FACTOR		ES	TIMAT	ED DE	MAND)					
	LTS	11653 VA	12:	5.00%			14	567 VA	۱			-			
	HEAT	1000 VA	100	0.00%			10	00 VA					CONNECTED LOAD SUMMARY	1	
	L	27 VA	12:	5.00%		33 VA							12665.19 VA		
									15.23 A						
												[ESITMATED DEMAND LOAD SUMMARY		
													15584.88 VA		
	18.75 A														

KEY NOTES

1 GROUND TRANSFORMER TO MAIN GROUND BAR LOCATED IN MAIN ELECTRICAL ROOM ON LEVEL 1.

			(EX) B					
BUSSIN MAIN: AIC RAT	G: 225 225A MLO ING: EXISTING	20	8Y/120 VOLTS, 3 PHASE, 4 W	RE	MOUNTING: SURFAC SECTIONS: 1 LOCATION: EED EDOM: T.B.(EX)			
CKT NO.	LOAD LOAD TYPE DESCRIPTION	TRIP # OF RATING POLES	А В С	# OF TRIP POLES RATING	LOAD LOAD C DESCRIPTION TYPE N		EEDER <u>NEW MAIN DISTRIBUTION PANEL 'MDP'</u> 800 A, 480Y/277 V, 65KAIC	
1 3 5 7	HVAC; PANEL "B1" (EX) RCPTS RCPTS - RM 109 (EX)	100 A 3 857 20 A 1 108	4 10 67 10 67 10 56 0 14 10	1 20 A 1 20 A 10 1 20 A 1 20 A	(EX) RCPTS - RMS 100,114,116 RCPTS (EX) RCPTS - RMS 102,117 RCPTS RCPTS - RM 104 RCPTS RCPTS - RM 220 RCPTS	800AT EX		
9 11 13	RCPTS RCPTS RMS 203, 202 (EX) RCPTS RCPTS - RMS 204, 205 (EX) PCPTS PCPTS - PM 213, 212 (EX)	20 A 1 20 A 1 20 A 1	14 36 14	1 20 A 10 1 20 A	(EX) RCPTS - RMS. 220, 219, 218 RCPTS (EX) RCPTS - RMS 208, 209 RCPTS (EX) RCPTS - PM 201 RCPTS	EX)200AT	EX EX EX EX EX EX EX EX	X EX 125AT)100AT)100AT
15 15 17	RCPTS RCPTS - RMS 106, 212 (EX) RCPTS RCPTS - RMS 106, 107, 108 (EX) RCPTS RCPTS - RMS 222, 221 (EX)	20 A 1 144 20 A 1 1 20 A 1 1	10 72 36	1 20 A 1 20 A 14 1 20 A	(EX) RCPTS - RM 201 RCPTS (EX) RCPTS - RM 314 RCPTS (EX) RCPTS - RMS 302, 303 RCPTS			
19 21 23	RCPTS RCPTS - RM 206 (EX) RCPTS RCPTS - RM 211, 210 (EX) RCPTS RCPTS - RMS 215, 216 (EX)	20 A 1 900 20 A 1 20 A 1	10 14 14 10 14 14	1 20 A 1 20 A 12 1 20 A	(EX) RCPTS - RM 301,304 RCPTS (EX) RCPTS - RMS 309, 310 RCPTS (EX) RCPTS - RM 313, 315, 312, 318 RCPTS			
25 27	MTRS DAMPER MOTORS (EX) MTRS EXHAUST FAN (EX)	20 A 1 500 20 A 1 500 20 A 1 1	10 20 18	1 20 A 1 20 A	(EX) ELEVATOR PIT RCPTS			J∽ → 3#1, #10G, 1-1/4"C
29 31 33	MTRS EXHAUST FAN (EX) MTRS EXHAUST FAN (EX) MISC CONDENSATE CHILLER	20 A 1 20 A 1 200 20 A 1	20 50 18 30	50 1 20 A 1 20 A 3 20 A	(EX) HEAT TAPE HEAT (EX) TEI EQUIPMENT MISC (EX) WATER HEATER HEAT		MLO	100A/3P/NF/3R
35 37	RCPTS DRINKING FOUNTAIN 1ST FLOOR (EX) HEAT HEAT TAPE (EX)	20 A 1 20 A 1 500	30 27 27	30				→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→
39 41 43	HVAC AHU 2ND/3RD FLOOR (EX)	60 A 3 370	37 37 37 37 37 37	3 60 A 37 	(EX) AHU 1ST/3RD FLOOR HVAC	2 SETS EACH OF [3#4	√0, 1#2 G, 2" C]	#4 75KVA
45 47	HEAT EWH-1 (EX) PHASE A LOAD TOTAL	30 A 2	20 90 20	1 20 A 10 1 20 A	(EX) RCPTS - RMS 307, 308 RCPTS (EX) RCPTS - RM 316 RCPTS - RM 316 RCPTS		4 600A/3P/NF	=
	29854.4 VA		27870.4 VA		28164 VA	2 SETS EACH OF [3#4	I/0, 1#2 G, 2" C] <u>T-B</u> ,	4 225AT/3P/3R
	LOAD TYPECONNECTED LOADHVAC27109 VADCDTC42940 VA	DEMAND FACTOR 100.00%	ESTIMATED DEMAND 27109 VA	r			1) #1 225KVA	<u>B</u> (EX)
	RCPTS 42840 VA MTRS 1100 VA HEAT 14160 VA	111.36% 100.00%	1225 VA 14160 VA		85888.8 VA 238.4 A	2 SETS EACH OF [3#3 #350KCM N, 1#1 G, 2-	1/2" C]	225A MLO
	MISC 680 VA	100.00%	680 VA		ESITMATED DEMAND LOAD SUMMARY 69593.8 VA 193.17 A	2 SETS EACH OF [3#3 #350KCM N, 1#1 G, 2-	350KCM, 1 ·1/2" C]	
					135.17 A			<u>B1</u> (NEW)
DUCCIN	C· 100A	20	(EX) B1	IDE			600 MLO 22K	MLO 10K
MAIN: AIC RAT	100A MLO ING: 10kAIC	20	01/120 VOLTS, 3 FTIASE, 4 W		SECTIONS: 1 LOCATION:	3#1, #1N, #10G, 1-1/4"	'C	#10G, 1-1/4"C
SCCA:	3.42kA LOAD	TRIP # OF	АВС	# OF TRIP	FED FROM: (EX) B		D1 D2 100A 100A	
NO .	TYPE DESCRIPTION RCPTS RCPTS - RMS 112,113 (EX)	RATING POLES 20 A 1 108	0 900	POLES RATING	(EX) RCPTS - RM 404 RCPTS		MCB MCB 22K 22K	
3 5 7	HVAC RM 304 A/C (EX)	20 A 1 20 A 2 166	108 108 4 144	1 20 A 108 1 20 A 1 20 A	(EX) RCPTS - RMS 402, CORRIDOR RCPTS (EX) RCPTS - RM 410 RCPTS (EX) RCPTS - RMS 405, 408 RCPTS			
9 11 13	RCPTS RCPTS - RM 407 (EX) RCPTS RCPTS - RMS 305, 304 (EX) PCPTS PCPTS - PM 413, 414 (EX)	20 A 1 20 A 1 20 A 1 360	144 900 900 900	1 20 A 180 1 20 A	(EX) RCPTS - RMS 409, CORRIDOR RCPTS (EX) ICE MAKER RCPTS	NOTE: SCOPE SHOWN IN GRA	AYSCALE IS EXISTING TO REMAIN.	
15 15 17	RCPTS RCPTS RCPTS RCPTS PANTRY MICROWAVE (EX) RCPTS MULTI-FUNCTION COPY CORRIDOR (EX)	20 A 1 300 20 A 1 1 20 A 1 1	180 180 360 360	1 20 A 1 20 A 180 1 20 A	(EX) COFFEE MARER RCPTS (EX) REFRIGERATOR RCPTS (EX) PANTRY MICROWAVE RCPTS	1 ELECTRICAL PARTIAL N.T.S	. SINGLE-LINE DIAGRAM	
19 21 23	RCPTS RCPTS - RM 307 (EX) RCPTS RECPTS - LARGE COLLAB BK SHELF LTG (EX) RCPTS RCPTS - LIBRARY BK SHELF LTG (EX)	20 A 1 900 X) 20 A 1 1	180 720 180 540 540 180	1 20 A 1 20 A 720 1 20 A	(EX) PROJECTOR - LIBRARY RCPTS (EX) PROJECTOR - COLLAB. ROOM RCPTS (EX) RCPTS - RM 309 RCPTS			
25 25 27	RCPTS RCPTS - RMS 110,111 (EX) RCPTS REFRIGERATOR - RM 201A (EX)	20 A 1 108 20 A 1 108 20 A 1 1	0 790 180 790	2 20 A	REF-1 HVAC			
29 31 33	SPARE SPARE SPARE	20 A 1 20 A 1 0 20 A 1	0 VA 0 VA 0 VA	0 VA 1 20 A 1 20 A 1 20 A	SPARE SPARE SPARE			
35 37	SPARE SPARE	20 A 1 20 A 1 20 A 1	0 VA 0 VA	0 VA 1 20 A 1 20 A	SPARE			
39 41	SPARE SPARE PHASE A LOAD TOTAL	20 A 1 20 A 1	0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	1 20 A 0 VA 1 20 A	SPARE 4 SPARE 4 PHASE C LOAD TOTAL			
	8574.4 VA		6730.4 VA		5624 VA			
	LOAD TIPECONNECTED LOADHVAC4909 VARCPTS16020 VA	100.00% 81.21%	4909 VA 13010 VA		CONNECTED LOAD SUMMARY			
					20928.8 VA 58.09 A ESITMATED DEMAND LOAD SUMMARY			
					17918.8 VA 49.74 A			
			(EX) C					
BUSSIN MAIN:	G: 100A 100AT/100AF MCB (LSI)	20	8Y/120 VOLTS, 3 PHASE, 4 W	RE	MOUNTING: SURFAC SECTIONS: 1			
SCCA:				# OF TDID	FED FROM: T-C			
NO.	LOAD LOAD TYPE DESCRIPTION	RATING POLES	A B C	POLES RATING	LOAD LOAD C DESCRIPTION TYPE N			
3	SPARE SPARE	20 A 1 20 A 1	0 VA 16 0 VA 20 VA	2 20 A 16	(EX) EXISTING LOAD MISC			
7 9 11	MISC FIRE ALARM (EX) MISC SECURITY SYSTEM (EX)	20 A 1 500 20 A 2	0 0 VA 25 16 25	1 20 A 2 20 A 16	SPARE (EX) SPOT COOLER HVAC			
13 15	SPARE RCPTS COMM ROOM (EX)	20 A 1 0 20 A 1	10 0 VA	1 20 A 1 20 A	(EX) ELEVATOR CONTROLLER MISC SPARE			
17 19 21	HEAT HEATER - VEST (EX)	20 A 3 166 	7 25 16 50	25 2 20 A 2 20 A	(EX) EMERGENCY ATTIC FAN MIRS 2 (EX) RCPTS - COMM ROOM UPS RCPTS			
23 25 27	SPACE MAIN 	1 100 A 3 0 	0 VA 0 VA	50 2 20 A 	SPARE			
29			O VA PHASE B LOAD TOTAL 6244.67 VA) VA 1 20 A	SPARE SPARE SPARE <thspare< th=""> <thspare< th=""> <thspare< t<="" td=""><td></td><td></td><td></td></thspare<></thspare<></thspare<>			
	LOAD TYPE CONNECTED LOAD HVAC 3328 \/A	DEMAND FACTOR	ESTIMATED DEMAND	_				
	RCPTS 1500 VA LTS 280 VA MTRS 500 VA	100.00% 125.00% 125.00%	1500 VA 350 VA 625 VA		CONNECTED LOAD SUMMARY 15936 VA 44.23 A			

									() (J						
BUSSING MAIN: AIC RAT SCCA:	G: 100 100 ING: EXI EXI	A AT/100AF M(STING STING	CB (LSI)		208`	Y/120 \	/OLTS,	MOUNTING: SECTIONS: LOCATION: FED FROM:								
CKT NO.	LOAD TYPE		LOAD DESCRIPTION	TRIP RATING	# OF POLES		4		В		С	# OF POLES	TRIP RATING	LOAD LOA DESCRIPTION TYP		
1	LTS	EMERGEN	CY LTS - FIRST FLOOR (EX)	20 A	1	160	12					1	20 A	(EX) EMERGENCY LTS - BASEMENT		
3		SPARE		20 A	1			0 VA	16			2	20 A	(EX) EXISTING LOAD MIS		
5		SPARE		20 A	1					0 VA	16					
7	MISC	FIRE ALAR	M (EX)	20 A	1	500	0 VA					1	20 A	SPARE		
9	MISC	SECURITY	SYSTEM (EX)	20 A	2			25	16			2	20 A	(EX) SPOT COOLER HVA		
11										25	16					
13		SPARE		20 A	1	0	10					1	20 A	(EX) ELEVATOR CONTROLLER MIS		
15	RCPTS	COMM RO	OM (EX)	20 A	1			50	0 VA			1	20 A	SPARE		
17	HEAT	HEATER - Y	VEST (EX)	20 A	3					16	25	2	20 A	(EX) EMERGENCY ATTIC FAN MTF		
19						1667	25									
21								16	50			2	20 A	(EX) RCPTS - COMM ROOM UPS RCP		
23		SPACE			1						50					
25		MAIN		100 A	3	0	0 VA					2	20 A	SPARE		
27								0 VA	0 VA							
29										0 VA	0 VA	1	20 A	SPARE		
		PHASE A	LOAD TOTAL				PHA	SE B L	oad t	OTAL				PHASE C LOAD TOTAL		
	-	369	96.67 VA		:		:	6244	.67 VA			<u>.</u>		5994.67 VA		
	LOAD TY	PE	CONNECTED LOAD	DEMAN	D FACTOR		E	STIMA	red de	MANE)					
	HVAC		3328 VA	10	0.00%			3	328 VA							
	RCPTS	6	1500 VA	10	0.00%			1	500 VA				ſ	CONNECTED LOAD SUMMARY		
	LTS		280 VA	12	5.00%			3	50 VA					15936 VA		
	MTRS		500 VA	12	5.00%			6	25 VA					44.23 A		
	HEAT		5000 VA	5000 VA 100.00%				5	000 VA				ſ	ESITMATED DEMAND LOAD SUMMARY		
	MISC	MISC 5328 VA 100.00%					5328 VA							16131 VA		
													44.78 A			

GENERAL NOTES

A. PROVIDE UPDATED, TYPE WRITTEN CIRCUIT DIRECTORY FOR ALL CIRCUITS WITH LOAD DEFINITIONS FOR EACH PANELBOARD. DIRECTORY SHALL BE LOCATED INSIDE PANEL DOOR. B. THE AIC RATING FOR NEW BRANCH CIRCUIT BREAKERS INSTALLED IN EXISTING PANELBOARDS SHALL MATCH EXISTING CIRCUIT BREAKERS WITHIN ASSOCIATED PANEL. C. BRANCH CIRCUITS NOTED AS "EX" ARE EXISTING TO REMAIN. ELECTRICAL LOADS FOR EXISTING CIRCUITS WERE ASSIGNED USING EXISTING DRAWINGS OR USING CONSERVATIVE VALUES BASED ON ENGINEERING ASSUMPTION.
 D. BRANCH CIRCUIT BREAKERS LEFT UNCONNECTED AS PART OF RENOVATION SHALL REMAIN AS SPARE.

		L	UMIN.	NAIRE S	CHEDU	ILE
Туре	Manufacturer	Model	Voltage	Mounting Method	Apparent Load	Description
A1	COOPER LIGHTING	24FPSL2SCT3-350 0K-LOW	120V	RECESSSED	27 VA	2' X 4' VOLUMETRIC DIRECT/INDIRECT LUMINAIRE WITH CENTER LENSE, GAUGE COLD ROLLED STEEL, AND MATTE WHITE FINISH. ROLLED STEEL, AND MATTE WHITE FINISH.
A2	LITHONIA	STAKP-24-3000LM -80-35K-COLT-MIN 1-EXT-MOVOLT-S LD-	120V	SURFACE	22 VA	2' X 4' VOLUMETRIC DIRECT/INDIRECT LUMINAIRE WITH CENTER LENSE, GAUGE COLD ROLLED STEEL, AND MATTE WHITE FINISH. ROLLED STEEL, AND MATTE WHITE FINISH.
D	GOTHAM	IVO6S-D-15LM-35 K-80CRI-MD-MIN1 0-MVOLT	120V	RECESSED	13 VA	6" LED ROUND DOWNLIGHT
L	VODE	807-NX3-SLAE -120V-0-Z-LO-35	120V	SURFACE	13 VA	NEXA 3/8" LINEAR SURFACE MOUNT FIXTURE (IF POSSIBLE, MATCH LINEAR LIGHT ON UPPER FLOORS), CRITICAL EDGE, CLEAR ANODIZED
X1	LIGHTALARMS	SLEDN-A-R-C-D-*	120V	SURFACE/CEILING	5 VA	UNIVERSAL MOUNT EDGE LIT EXIT SIGN, RED LETTERING

Project Type:	2018 IECC Grady Georgia Hall Level 1 Alteration				
Construction Site: 36 Butler Street, S.E. Atlanta, Georgia 30335	Owner/Agent: GRADY	Designer/ WSP	Contractor:		
Allowed Interior Ligh	nting Power	_			_
	A Area Category F	B loor Area (ft2)	C Allowed Watts / f	d A t2	D llowed Watts
1-Common Space Types:Offi	ce - Enclosed	2494 Total	0.93		2319
Proposed Interior Lig	ghting Power	P		n	-
Fixture ID : Descri	A ption / Lamp / Wattage Per Lamp / Ballas	t Lamps/ Fixture	C # of Fixture	D Fixture Watt.	е (С Х
Common Space Types: Of	ffice - Enclosed (2494 sq.ft.)				
A2: LED Panel 33W: A1: LED Panel 33W:		1 1	29 3	22 27	63 8
D: LED Other Fixture Unit L: LED Linear 15W:	13W:	1 1	3 71	13 13	3 92
		 To	otal Propose	ed Watts =	168
Interior Lighting PASSES					
building plans, specifications systems have been designed applicable mandatory requir Alex Brumfield - Senior Consulta Name - Title	s, and other calculations submitted with this permit d to meet the 2018 IECC requirements in COM <i>check</i> rements listed in the Inspection Checklist. ant, Electrical Engineering Signature	application. The Version COMche	proposed ir eckWeb and 	nterior ligh to compl 8/2024	iting y with a
	Electrical Testing, Incorp 2671 Cedartown Hwy. – Rome, C Telephone 706-234-7623 – Fax 706-23 E-Mail <u>billy@electricaltestinginc.c</u>	50 rated 5A 30161 6-9028 <u>com</u>	LET LET LET	TRICAL TEST	ASSOCIATION
Upon visual insp outside earth. It rods because all tester (AEMC C standards of 25c	pection it appears to have a 4/0 ground from ex is undetermined how many ground rods are ins grounding material is below ground. ETI was Clamp-on Ground Tester) to record a 13.10hms ohms or less.	isting switchge stalled or length able to use a cla reading which	ar that run a between g amp-on gro meets NET	s to the ground ound ΓΑ	
Sincerely,					
Electrical Testin	ng, Incorporated				
Billy Z	Davis				

KEY NOTES

1 GROUND TRANSFORMER TO MAIN GROUND BAR LOCATED IN MAIN ELECTRICAL ROOM ON LEVEL 1.

								[)							
BUSSING MAIN: AIC RAT SCCA:	G: 600 225 ING: 22k 12.7	A AT/225AF M(AIC /kA	CB (LSI)			2081	(/120 \	/OLTS,	3 PHA	SE, 4 V	VIRE			MOUNTI SECTIC LOCATI FED FR	NG: SUR NS: 1 ON: ELE OM: T-D	(FACE C RM
CKT NO.	LOAD TYPE		LOAD DESCRIPTION	TRIP RATING	# OF POLES		A		В		C	# OF POLES	trip Rating	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
1	HVAC	ODU-1		70 A	3	7458	714					3	60 A	ODU-2.A	HVAC	2
3								745	714							4
5										745	714					6
7	HVAC	ODU-2.B		70 A	3	7458	110					3	100 A	ODU-3.A	HVAC	8
9								745	110							10
11										745	110					12
13	HVAC	ODU-3.B		100 A	3	11012	222					2	20 A	AC-1-01B	HVAC	14
15								110	222							16
17										110	222	2	20 A	AC-1-02	HVAC	18
19	HVAC	AC-1-01A		20 A	2	222	222									20
21								222	182			2	20 A	AC-1-04	HVAC	22
23	HVAC	AC-1-03		20 A	2					182	182					24
25						182	25 VA	۱				2	20 A	AC-1-06	HVAC	26
27	HVAC	AC-1-05		20 A	2			182	25 VA							28
29										182	0 VA	1	20 A	SPARE		30
31		SPARE		20 A	1	0	0 VA					1	20 A	SPARE		32
33		SPARE		20 A	1			0 VA	0 VA			1	20 A	SPARE		34
35		SPARE		20 A	1					0 VA	0 VA	1	20 A	SPARE		36
37		SPARE		20 A	1	0	224					3	100 A	PANEL D1	HVAC;	38
39		SPARE		20 A	1			0 VA	224							40
41		SPARE		20 A	1					0 VA	234					42
		PHASE A	LOAD TOTAL				PHA	SE B L	OAD T	OTAL				PHASE C LOAD TOTAL		
		472	201.5 VA			-		47161	.98 VA					47194.22 VA		6
	LOAD TY	PE	CONNECTED LOAD	DEMAN	D FACTOR		E	STIMAT	ED DE	MAND						
	HVAC		141558 VA	10	0.00%			141	1558 V/	4			_			
														CONNECTED LOAD SUMMARY	/	
														141557.7 VA		
												392.92 A				
														ESITMATED DEMAND LOAD SUMN	IARY	
														141557.7 VA		
														392.92 A		

								D)1							
BUSSING MAIN: AIC RAT SCCA:	G: 100 100 ING: 22k 12.7	A AT/100AF M AIC ⁄kA	CB (LSI)			208	Y/120 V	OLTS,	3 PHA	ASE, 4	WIRE			MOUNTI SECTIC LOCATI FED FR	NG: SUR NS: 1 ON: ELE OM: D	FACE C RM
CKT NO.	LOAD TYPE		LOAD DESCRIPTION	TRIP RATING	# OF POLES		Α		в		С	# OF POLES	TRIP RATING	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
1	HVAC	AC-1-07		20 A	2	222	46 VA					2	20 A	AC-1-08	HVAC	2
3								222	46 VA	١						4
5	HVAC	AC-1-09		20 A	2					182	. 182	2	20 A	AC-1-10	HVAC	6
7						182	182									8
9	HVAC	AC-2-01		20 A	2			182	222			2	20 A	AC-2-02	HVAC	10
11										182	. 222					12
13	HVAC	AC-2-03		20 A	2	182	222	100				2	20 A	AC-2-04	HVAC	14
15								182	222	400	000			-		16
17	HVAC	AC-2-05		20 A	2	400	000			182	. 222	2	20 A	AC-2-06	HVAC	18
19		18				102		222	100							20
21	INAC	AG-2-07		20 A	20 A 2				102	222	182	2	20 A	AC-2-08	IVAC	22
25	HVAC	ΔC-2-09		20 A	2	182	222			222	102	2	 20 A	ΔC-2-10	HV/AC	24
27						102		182	222							28
29	HVAC	AC-2-11		20 A	2			102		222	182	2	20 A	AC-2-12	HVAC	30
31						222	182							-		32
33	HVAC	AC-2-17A		20 A	2			182	182			2	20 A	AC-2-17B	HVAC	34
35										182	. 182					36
37		SPARE		20 A	1	0	0 VA					1	20 A	SPARE		38
39		SPARE		20 A	1			0 VA	0 VA			1	20 A	SPARE		40
41		SPARE		20 A	1					0 VA	0 VA	1	20 A	SPARE		42
		PHASE A	LOAD TOTAL				PHAS	SE B L	OAD T	OTAL				PHASE C LOAD TOTAL		
		22	45.36 VA			-		2245	.36 VA	-	-	-		2342.08 VA		
		DE							ת חבו							
	HVAC	ΓL	6833 VA	10	0.00%			68	833 VA		, 					
														CONNECTED LOAD SUMMARY	(
														6832.8 VA		
														18.97 A		
														ESITMATED DEMAND LOAD SUMN	IARY	
														6832.8 VA		
														18.97 A		

								D)2							
BUSSING MAIN: AIC RAT SCCA:	G: 100 100 ING: 22k 12.7	A A MLO AIC 7kA				208`	Y/120 \	/OLTS,	3 PHA	SE, 4 V	WIRE			MOUNTI SECTIC LOCATI FED FR	NG: SUR)NS: 1 ON: .OM:	FACE
CKT NO.	LOAD TYPE		LOAD DESCRIPTION	TRIP RATING	# OF POLES		A		В		С	# OF POLES	TRIP RATING	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
1	HVAC	AC-3-01		20 A	2	300	222					2	20 A	AC-3-02	HVAC	2
3								300	222							4
5	HVAC	AC-3-03		20 A	2					182	222	2	20 A	AC-3-04	HVAC	6
7						182	222									8
9	HVAC	AC-3-05		20 A	2			300	222			2	20 A	AC-3-06	HVAC	10
11										300	222					12
13	HVAC	AC-3-07		20 A	2	182	182					2	20 A	AC-3-08	HVAC	14
15								182	182							16
17	HVAC	AC-3-09		20 A	2					222	222	2	20 A	AC-3-10	HVAC	18
19						222	222									20
21	HVAC	AC-3-14A		20 A	2			182	182			2	20 A	AC-3-14B	HVAC	22
23										182	182					24
25	HVAC	AC-2-17C		20 A	2	222	222					2	20 A	AC-2-20	HVAC	26
27								222	222							28
29	HVAC	AC-3-21		20 A	2					300	456	2	20 A	AC-2-24	HVAC	30
31						300	456									32
33	HVAC	AC-2-38		20 A	2			456	0 VA			1	20 A	SPARE		34
35										456	0 VA	1	20 A	SPARE		36
37		SPARE		20 A	1	0	0 VA					1	20 A	SPARE		38
39		SPARE		20 A	1			0 VA	0 VA			1	20 A	SPARE		40
41		SPARE		20 A	1					0 VA	0 VA	1	20 A	SPARE		42
		PHASE A	LOAD TOTAL				PHA	SE B L	oad t	OTAL				PHASE C LOAD TOTAL		
		292	29.68 VA			_		2668	.64 VA	_	_			2942.16 VA		
	LOAD TY	PE	CONNECTED LOAD	DEMAN	D FACTOR		E	STIMA	red de	MAND						
	HVAC		8540 VA	10	0.00%			8	540 VA							
														CONNECTED LOAD SUMMARY	1	
														8540.48 VA		
														23.71 A		
														ESITMATED DEMAND LOAD SUMM	IARY	
														8540.48 VA		
									Γ			23.71 A				

			EC	QUIF	PMEN	T C(ONNEC [.]	TION S	CHEDU	LE	
DESIGNATION	EQUIPMENT DESCRIPTION	ELE	ECTRICAL FLA	CHARAC [®] KW	TERISTICS (NC)TE-1) PHASE	POWER SOURCE (NOTE 2)	CONNECTION TYPE (NOTE-3)	DISCONNECT SIZE (NOTE-4)	BRANCH CIRCUIT WIRING	REMARKS
MECHANICAL EQU			2 Δ		208 \/	1	D·19 21	INTEGRAI		2#12_1#12_G_3/4" C	
AC-1-01B	VRV FAN COIL UNIT		2 A		208 V	1	D:14,16	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-1-02	VRV FAN COIL UNIT		2 A 2 A		208 V 208 V	1	D:18,20	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-1-04	VRV FAN COIL UNIT		2 A		208 V	1	D:23,23	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-1-05	VRV FAN COIL UNIT		2 A		208 V	1	D:27,29			2#12, 1#12 G, 3/4" C	
AC-1-00 AC-1-07	VRV FAN COIL UNIT		2 A		208 V	1	D.20,20 D1:1,3	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-1-08	VRV FAN COIL UNIT		0 A		208 V	1	D1:2,4	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-1-09 AC-1-10	VRV FAN COIL UNIT		2 A 2 A		208 V 208 V	1	D1:5,7 D1:6,8	INTEGRAL		2#12, 1#12 G, 3/4" C 2#12, 1#12 G, 3/4" C	
AC-2-01	VRV FAN COIL UNIT		2 A		208 V	1	D1:9,11	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-2-02 AC-2-03	VRV FAN COIL UNIT		2 A 2 A		208 V 208 V	1	D1:10,12 D1:13.15	INTEGRAL		2#12, 1#12 G, 3/4" C 2#12, 1#12 G, 3/4" C	
AC-2-04	VRV FAN COIL UNIT		2 A		208 V	1	D1:14,16	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-2-05	VRV FAN COIL UNIT		2 A 2 A		208 V 208 V	1	D1:17,19	INTEGRAL		2#12, 1#12 G, 3/4" C 2#12, 1#12 G, 3/4" C	
AC-2-07	VRV FAN COIL UNIT		2 A		208 V	1	D1:21,23	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-2-08	VRV FAN COIL UNIT		2 A		208 V	1	D1:22,24			2#12, 1#12 G, 3/4" C	
AC-2-09 AC-2-10	VRV FAN COIL UNIT		2 A 2 A		208 V	1	D1:25,27	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-2-11	VRV FAN COIL UNIT		2 A		208 V	1	D1:29,31	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-2-12 AC-2-17A	VRV FAN COIL UNIT		2 A 2 A		208 V 208 V	1	D1:30,32 D1:33,35	INTEGRAL		2#12, 1#12 G, 3/4" C 2#12, 1#12 G, 3/4" C	
AC-2-17B	VRV FAN COIL UNIT		2 A		208 V	1	D1:34,36	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-2-17C AC-2-20	VRV FAN COIL UNIT		2 A 2 A		208 V 208 V	1	D2:25,27	INTEGRAL		2#12, 1#12 G, 3/4" C 2#12, 1#12 G, 3/4" C	
AC-2-24	VRV FAN COIL UNIT		4 A		208 V	1	D2:30,32	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-2-38			4 A		208 V	1	D2:33,35			2#12, 1#12 G, 3/4" C	
AC-3-01 AC-3-02	VRV FAN COIL UNIT		2 A		208 V	1	D2:1,3 D2:2,4	INTEGRAL		2#12, 1#12 G, 3/4 C 2#12, 1#12 G, 3/4" C	
AC-3-03	VRV FAN COIL UNIT		2 A		208 V	1	D2:5,7	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-3-04 AC-3-05	VRV FAN COIL UNIT		2 A 3 A		208 V 208 V	1	D2:6,8 D2:9.11	INTEGRAL		2#12, 1#12 G, 3/4" C 2#12, 1#12 G, 3/4" C	
AC-3-06	VRV FAN COIL UNIT		2 A		208 V	1	D2:10,12	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-3-07	VRV FAN COIL UNIT		2 A 2 A		208 V 208 V	1	D2:13,15	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-3-09	VRV FAN COIL UNIT		2 A		208 V	1	D2:17,19	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-3-10	VRV FAN COIL UNIT		2 A		208 V	1	D2:18,20			2#12, 1#12 G, 3/4" C	
AC-3-14A AC-3-14B	VRV FAN COIL UNIT		2 A 2 A		208 V	1	D2:21,23	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-3-21	VRV FAN COIL UNIT		3 A		208 V	1	D2:29,31	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-4-01 AC-4-02	VRV FAN COIL UNIT		2 A 2 A		208 V 208 V	1	PANEL B1:17,19 PANEL B1:6.8	INTEGRAL		2#12, 1#12 G, 3/4" C 2#12, 1#12 G, 3/4" C	
AC-4-03	VRV FAN COIL UNIT		2 A		208 V	1	PANEL B1:9,11	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-4-04	VRV FAN COIL UNIT		2 A		208 V	1	PANEL B1:1,3			2#12, 1#12 G, 3/4" C	
AC-4-05	VRV FAN COIL UNIT		2 A 2 A		208 V	1	PANEL B1:2,4	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-4-07	VRV FAN COIL UNIT		2 A		208 V	1	PANEL B1:13,15	INTEGRAL		2#12, 1#12 G, 3/4" C	
AC-4-10 AC-4-23	VRV FAN COIL UNIT		2 A		208 V	1	PANEL B1:5,7 PANEL B1:18,20	INTEGRAL		2#12, 1#12 G, 3/4 C 2#12, 1#12 G, 3/4" C	
AC-4-24	VRV FAN COIL UNIT		0 A		208 V	1	PANEL B1:14,16	INTEGRAL	00001/000/5/00	2#12, 1#12 G, 3/4" C	
DOAS-1	DEDICATED OUTDOOR AIR		2 A 7 A		480 V 480 V	1	MDP:20,22,24 MDP:19,21,23	DISCONNECT	200A/3P/F/3R INTEGRAL	3#1, 1#1 N, 1#6 G, 1-1/2" C 3#12, 1#12 G, 3/4" C	
EF-1	EXHAUST FAN	3			480 V	3	MDP:14,16,18	DISCONNECT	30A/3P/NF	3#12, 1#12 G, 3/4" C	EXHAUST FAN LOCATED IN ATTIC. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
GEF-1	VRV FAN COIL UNIT		6 A		120 V	1	PANEL B1:22	DISCONNECT	30A/3P/NF	3#12, 1#12 G, 3/4" C	
GSF-1 H-1	HUMIDIFIER		1 A 26 A		120 V 480 V	1	PANEL B1:21 MDP:25.27.29	DISCONNECT INTEGRAL	30A/3P/NF	3#12, 1#12 G, 3/4" C 3#12, 1#12 G, 3/4" C	
H-2	HUMIDIFIER		26 A		480 V	3	MDP:26,28,30	INTEGRAL		3#12, 1#12 G, 3/4" C	
H-3 H-4	HUMIDIFIER		26 A		480 V 480 V	3	MDP:31,33,35 MDP:32,34,36	INTEGRAL		3#12, 1#12 G, 3/4" C 3#12, 1#12 G, 3/4" C	
ODU-1	CONDENSING UNIT		62 A		208 V	3	D:1,3,5	DISCONNECT	60A/3P/F/3R	3#1, 1#1 N, 1#6 G, 1-1/2" C	
ODU-2.A	CONDENSING UNIT		60 A		208 V	3 3	D:2,4,6		60A/3P/F/3R	3#1, 1#1 N, 1#6 G, 1-1/2" C	
ODU-3.A	CONDENSING UNIT		92 A		208 V	3	D:8,10,12	DISCONNECT	200A/3P/F/3R	3#1, 1#1 N, 1#6 G, 1-1/2" C	
ODU-3.B	CONDENSING UNIT	2/4	92 A		208 V	3	D:13,15,17	DISCONNECT	200A/3P/F/3R	3#1, 1#1 N, 1#6 G, 1-1/2" C	
		3/4 S:			208 V	<u>[]</u>	(EX) B1:26,28	INTEGRAL		J#12, 1#12 G, 3/4" C	
	L CHARACTERISTICS										
HP:	HORSEPOWER (F	= FRAC	TIONAL HE))							
FLA: KW:	KILOWATTS)									
PH:	PHASE										
2. REFER TO	ONE-LINE DIAGRAMS FOR BR	ANCH CI	RCUIT WI	RING NO I	INDICATED IN	SCHEDU	LE. REFER TO ELE	CTRICAL EQUIPME	ENT SCHEDULES F	OR CIRCUIT OCPD SIZE.	
3. EQUIPMEN DP:	DUPLEX PUMP S	YSTEM W	VITH CONT	ROLLER	PROVIDED UN	DER DIVIS	SION 23. PROVIDE	CONNECTION TO C	CONTROLLER AND	CONNECTIONS FROM CONT	ROLLER TO PUMPS IN
	ACCORDANCE W WITH THE CONTE	ITH THE	CONTROL	LER MAN FURER'S	UFACTURER'S	INSTALLA INSTRUC	ATION INSTRUCTIO	NS. PROVIDE CON	INECTIONS FOR LO	OCAL CONTROLS AND ALARI	MS IN ACCORDANCE
FR:		RSEPOW	ER SINGL	E-PHASE	MOTOR. PRO	VIDE THEI	RMAL OVERLOAD/D	ISCONNECT SWIT		ONNECTION. FROM STARTER TO FOUNDM	=NT
г wo. М:	MOTOR WITH CO	MBINATI	ON STAR	ER AND [DISCONNECT S	SWITCH PI	ROVIDED UNDER D	IVISION 23. PROVIDED WITH T	IDE MOTOR CONNI		
SPC:	DISCONNECT.			יוטב SING							
VFD:	VARIABLE FREQU	JENCY D	RIVE WITH IT.	I INTEGR/	AL DISCONNEC	CT SWITCI	H FURNISHED UNDI	ER DIVISION 23. IN	ISTALL VFD AND P	ROVIDE CONNECTION TO VE	-D AND CONNECTION
DISC:		POINT (ON TO EC		OVIDED W		NTED STARTER/C	ONTROLLER. PRO	VIDE FUSIBLE OR NON-FUSI	BLE DISCONNECT
ELEV:	CONNECTIONS S	HOWN O	N DRAWIN	IGS. COO					LLATION.		
C&P:		CONNEC	JIED. CO	URDINAT	E PLUG TYPE \	WITH THE	APPROVED EQUIP	MENT SUBMITTAL.			
4. DISCONNE TOGG	LE: THERMAL OVERL	.OAD, TO	GGLE TYF	E DISCO	NNECT SWITC	Н.					
60/3/NI MCS:	H/3R: SIZE/POLES/FUS REFER TO "MOTO	E (NF = N OR CONN	ION-FUSE), F* = FU CHEDULF	SE SIZE AND T =".	YPE PER	EQUIPMENT MANU	FACTURER)/ ENCL	LOSURE TYPE IF O	THER THAN NEMA 1.	
INTEG	RAL: DISCONNECTING	MEANS	IS INTEGR	AL WITH	N EQUIPMENT	CONTRO	ller. Provide Ad	DITIONAL DISCON	INECTING MEANS	IF REQUIRED PER CODE OR	BY EQUIPMENT
5. REFER TO		2 CUNIUI	JCTORS/0	6001/1" 50		"WIRING			(0-600V 1-PHASE)"		
									(* ****, TTHAOL)		

GENERAL NOTES
A. PROVIDE UPDATED, TYPE WRITTEN CIRCUIT DIRECTORY FOR ALL CIRCUITS WITH LOAD DEFINITIONS FOR EACH PANELBOARD. DIRECTORY SHALL BE LOCATED INSIDE PANEL DOOR.
B. THE AIC RATING FOR NEW BRANCH CIRCUIT BREAKERS INSTALLED IN EXISTING PANELBOARDS SHALL MATCH EXISTING CIRCUIT BREAKERS WITHIN ASSOCIATED PANEL.
C. BRANCH CIRCUITS NOTED AS "EX" ARE EXISTING TO REMAIN. ELECTRICAL LOADS FOR EXISTING CIRCUITS WERE ASSIGNED USING EXISTING DRAWINGS OR USING CONSERVATIVE VALUES BASED ON ENGINEERING ASSUMPTION.
D. BRANCH CIRCUIT BREAKERS LEFT UNCONNECTED AS PART OF RENOVATION SHALL REMAIN AS SPARE.

