LIGHTING FIXTURE SCHEDULE

SYMBOL	LABEL	DESCRIPTION	LAMPS NO.	LAMPS TYPE	LAMPS WATT	LAMPS LUMENS	VOLTAGE	MOUNTING	NOTES
	LA1	2'x4' LED TROFFER	–	LED 3500K	31	3,800	UNV	CEILING RECESSED	(1)
		SAME AS ABOVE EXCEPT WITH EMERGENCY LIGHT.							
	LA2	7"x4' LED FIXTURE	–	LED 3500K	31	3,400	UNV	CEILING SURFACE	(1)
EM		SAME AS ABOVE EXCEPT WITH EMERGENCY BATTERY.							
	LB1	4' LED LINEAR FIXTURE	–	LED 4000K	23	3,350	UNV	CEILING SUSPENDED	(1)(2)
EM		SAME AS ABOVE EXCEPT WITH EXTERNAL EMERGENCY BATTERY BACKUP MODULE. GE EL1 SERIES							
	LB2	8' LED LINEAR FIXTURE	–	LED 4000K	23	3,350	UNV	CEILING SUSPENDED	(1)(2)
		SAME AS ABOVE EXCEPT WITH EXTERNAL EMERGENCY BATTERY BACKUP MODULE. GE EL1 SERIES							
	LB3	8' LED LINEAR FIXTURE	–	LED 4000K	23	3,350	UNV	CEILING SUSPENDED	(1)(2)
		SAME AS ABOVE EXCEPT WITH EXTERNAL EMERGENCY BATTERY BACKUP MODULE. GE EL1 SERIES							
	LD1	8" DIA. LED DOWNLIGHT		LED 3500K	20	1,500	277	CEILING RECESSED	(1)
EM		SAME AS ABOVE EXCEPT WITH BODINE EMERGENCY BACKUP WITH REMOTE TEST SWITCH.							
	LD2	6" DIA. LED DOWNLIGHT		LED 3500K	20	1,500	277	CEILING RECESSED	(1)
	LD3	INDUSTRIAL PENDANT.							
	EP1	4' VAPOR-PROOF FLUORESCENT FIXTURE WITH ACRYLIC LENS, WET LOCATION, WHITE FINISH. COOPER LIGHTING VT3 SERIES	2	T5HO	54	–	120	WALL SURFACE	

GENERAL NOTES:

- EMERGENCY FIXTURES INDICATED IN THIS SCHEDULE SHALL BE CAPABLE OF 90 MINUTE BATTERY BACK-UP OPERATION.
- PROVIDE COMPATIBLE EMERGENCY BATTERY PACK WITHOUT LAMPS (DUAL-LITE LM SERIES OR EQUAL) FOR ALL REMOTE HEAD TYPE EMERGENCY FIXTURES. INSTALL ON INTERIOR SIDE OF WALL AND LOCATE ABOVE ACCESSIBLE CEILING WHEN CEILINGS ARE PRESENT.
- COORDINATE EXACT LOCATION AND FINISH OPTIONS OF ALL EMERGENCY REMOTE TEST SWITCHES WITH ARCHITECT PRIOR TO ROUGH-IN AND CONNECT FOR OPERATION.
- CONTRACTOR IS RESPONSIBLE FOR SECURING ANY SUSPENDED LIGHT FIXTURE(S) WHICH SWAY OR MOVE DUE TO AIR PRODUCING MECHANICAL EQUIPMENT OR EXTERIOR WIND WITH RIGID SUPPORT(S).
- FINISHES OF ALL FIXTURES INDICATED IN THIS SCHEDULE SHALL MATCH THE FINISH ADJACENT TO THE CEILING/WALL THE FIXTURE IS MOUNTED IN/ON UNLESS NOTED OTHERWISE. PROVIDE CUSTOM COLOR FINISH IF FINISH REQUIRED IS NOT A STANDARD FIXTURE OPTION.
- ALL LINEAR FIXTURES INSTALLED IN A 4'x4' CEILING SYSTEM SHALL BE MOUNTED SO THAT THE BOTTOM OF THE FIXTURE IS FLUSH WITH THE CEILING SYSTEM. REGRESSED MOUNTING OF FIXTURES SHALL NOT BE ACCEPTABLE. PROVIDE CREE CR-HDC MOUNTING CLIP KIT AS REQUIRED.

NOTES:

(1) VERIFY CEILING TYPES PRIOR TO ORDERING FIXTURES.
(2) VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
(3) MOUNT FIXTURE AT HEIGHT AS INDICATED (BOTTOM OF FIXTURE), COORDINATE WITH EQUIPMENT PRIOR TO ROUGH IN.
(4) MOUNT FIXTURE AT HEIGHT AS INDICATED (CENTER OF FIXTURE), COORDINATE WITH EQUIPMENT PRIOR TO ROUGH IN.
(5) COORDINATE EXACT LENGTHS PRIOR TO ORDERING TO ACHIEVE LENGTH AS INDICATED ON PLANS.

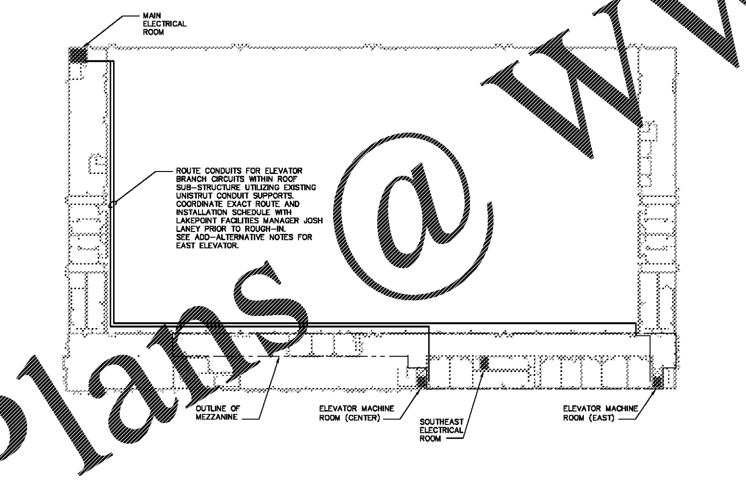
EMERGENCY LIGHTING FIXTURE SCHEDULE

SYMBOL	LABEL	DESCRIPTION	LAMPS NO.	LAMPS TYPE	LAMPS WATT	LAMPS LUMENS	VOLTAGE	MOUNTING	NOTES
	EX1	LED EDGE-LIT EXIT LIGHT FIXTURE WITH RED LETTERING, EMERGENCY OPERATION, AND SELF-DIAGNOSTICS. DUAL LITE LE SERIES	–	LED	–	–	UNV	CEILING / WALL SURFACE	
	EM6	13"Wx5"Dx5"H EMERGENCY FIXTURE WITH 30 WATT CAPACITY, LEAD-CALCIUM BATTERY, STANDARD MODEL, AND SELF-DIAGNOSTICS. DUAL LITE LZ SERIES	2	LED	3		UNV	WALL SURFACE	

GENERAL NOTES:

- EMERGENCY FIXTURES INDICATED IN THIS SCHEDULE SHALL BE CAPABLE OF 90 MINUTE BATTERY BACK-UP OPERATION.
- PROVIDE COMPATIBLE EMERGENCY BATTERY PACK WITHOUT LAMPS (DUAL-LITE LM SERIES OR EQUAL) FOR ALL REMOTE HEAD TYPE EMERGENCY FIXTURES. INSTALL ON INTERIOR SIDE OF WALL AND LOCATE ABOVE ACCESSIBLE CEILING WHEN CEILINGS ARE PRESENT.
- COORDINATE EXACT LOCATION AND FINISH OPTIONS OF ALL EMERGENCY REMOTE TEST SWITCHES WITH ARCHITECT PRIOR TO ROUGH-IN AND CONNECT FOR OPERATION.
- SUSPENDED EXIT SIGNS SHALL BE SUPPORTED WITH PAINTED STEMS AND CONCEALED MOUNTING PLATES BY PENDANT SYSTEMS OR EQUAL. (EXCEPTIONS TO THIS REQUIREMENT INCLUDE WAREHOUSE, STORAGE AND INDUSTRIAL SPACES.)
- EXIT SIGNS LOCATED AT STOREFRONT EXITS AND ADJACENT CEILING IS GREATER THAN 12' A.F.F. SHALL BE INSTALLED CENTERED ON HORIZONTAL MULLION OF THE STOREFRONT SYSTEM ABOVE THE DOORWAY. ALL WIRING SHALL BE CONCEALED WITHIN MULLIONS AND SIGN SHALL BE INSTALLED FLUSH. NO VISIBLE BACK BOXES SHALL BE ALLOWED.

REFERENCE PLAN



SCALE: N.T.S.

ELECTRICAL NOTES

PART 1 – GENERAL

A. REQUIREMENTS OF REGULATORY AGENCIES AND STANDARDS
1. ALL EQUIPMENT, MATERIAL AND INSTALLATION SHALL MEET THE REQUIREMENTS OF ONE OR MORE THE FOLLOWING:
   a. NATIONAL ELECTRICAL CODE (NEC), NFPA-70 (2017)
   b. LIFE SAFETY CODE, NFPA-101 (2012)
   c. INTERNATIONAL ENERGY CONSERVATION CODE (IECC), (2009), WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2011) (2012)
   d. INTERNATIONAL BUILDING CODE, (2012) WITH GEORGIA AMENDMENTS (2014) (2015) (2017)
   e. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
   f. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
   g. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
   h. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
   i. ILLUMINATING ENGINEERING SOCIETY (IES)
   j. UNDERWRITERS LABORATORIES (UL)
   k. STANDARD FOR THE INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING SYSTEMS (NFPA-72)
   l. FEDERAL SPECIFICATION (FED. SPEC.)
   m. INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)

B. SCOPE OF WORK
1. THE CONTRACTOR SHALL VISIT THE JOB SITE AND REVIEW CONSTRUCTION AND VENDOR DRAWINGS FOR ALL TRADES PRIOR TO BID TO BECOME FAMILIAR WITH THE PROJECT AND INTENT OF THE DRAWINGS.
2. THE CONTRACTOR SHALL OBTAIN A PERMIT FOR WORK TO BE COMPLETED AND INCLUDE COST FOR ALL PERMIT FEES, PERMITS, INSPECTIONS AND TESTING IN THE BID.
3. THE CONTRACTOR SHALL PROVIDE ALL NEW MATERIAL IN ACCORDANCE WITH THESE DOCUMENTS AND APPLICABLE SPECIFICATIONS.
4. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND THOSE OF OTHER DISCIPLINES TO THE ARCHITECT/ENGINEER FOR WRITTEN DIRECTION/INSTRUCTIONS FOR CHANGES NECESSARY IN THE WORK.
5. THE CONTRACTOR SHALL NOT SCALE THE ELECTRICAL DRAWINGS, REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS.
6. THE CONTRACTOR IS EXPECTED TO PROVIDE ALL MATERIAL NECESSARY FOR A COMPLETE OPERATING SYSTEM. IT IS NOT THE INTENT OF THESE DOCUMENTS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION.
7. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL WORK WITH OTHER TRADES AND MAKE PROPER PROVISIONS IN RELATION TO THEIR WORK. ANY CHANGES REQUIRED DUE TO LACK OF COORDINATION, SHALL BE MADE AT THE CONTRACTORS' EXPENSE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF THEIR WORK.
9. THE ELECTRICAL INSTALLATION SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER BY A LICENSED ELECTRICAL CONTRACTOR.
10. THE CONTRACTOR SHALL PROVIDE INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR DURATION OF THE PROJECT.
11. NO COMBUSTIBLE MATERIALS, IE: PVC CONDUIT, NON-PLENUM RATED CABLING, ETC., ARE ALLOWED ABOVE ANY CEILINGS.

C. TERMS
1. "PROVIDE", AS USED IN THE DOCUMENTS AND APPLICABLE SPECIFICATIONS MEANS TO FURNISH AND INSTALL COMPLETE.
2. "WIRING", AS USED IN THE DOCUMENTS MEANS CONDUIT AND WIRES WITHIN THE CONDUIT SYSTEM.
3. "CONCEALED", AS USED IN THE DOCUMENTS AND APPLICABLE SPECIFICATIONS MEANS EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, BEHIND WALLS, INSIDE CABINETRY OR ABOVE SUSPENDED CEILINGS.
4. "NEMA 1", INDICATES THE ENCLOSURE SHALL BE LISTED FOR INDOOR USE ONLY.
5. "NEMA 3R", INDICATES THE ENCLOSURE SHALL BE LISTED FOR EXTERIOR USE.
6. "SETS", AS USED FOR SERVICES, FEEDERS AND BRANCH CIRCUITS MEANS PARALLELED AND EACH SET SHALL BE INSTALLED IN SEPARATE CONDUITS.

D. WARRANTY
1. ALL MATERIAL AND WORK PERFORMED SHALL BE GUARANTEED FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
2. ANY CORRECTIONS FOR DEFECTIVE MATERIALS AND/OR INSTALLATION SHALL BE MADE AT THE CONTRACTORS EXPENSE DURING THE WARRANTY PERIOD.

PART 2 – PRODUCTS

A. DISTRIBUTION AND BRANCH CIRCUIT PANEL BOARDS
1. CURRENT CARRYING BUSES AND GROUND BARS SHALL BE COPPER.
2. ALL CIRCUIT BREAKERS SHALL BE BOLT ON TYPE, PLUG ON TYPE CIRCUIT BREAKERS ARE NOT ACCEPTABLE.
3. ALL CIRCUIT BREAKERS USED FOR MECHANICAL EQUIPMENT SHALL BE "HACR" TYPE.
4. AIC RATINGS SHALL BE AS INDICATED ON THE BRANCH CIRCUIT PANEL SCHEDULES.
5. ALL PANEL BOARDS SHALL BE LABELED WITH PLASTIC LAMINATE IDENTIFICATION PLATES THAT ARE ENGRAVED WITH 1/4" LETTERING.
6. ALL PANEL BOARDS SHALL HAVE A TYPE WRITTEN SCHEDULE OF BRANCH CIRCUIT DESCRIPTIONS.
7. CIRCUIT BREAKERS SHALL MEET ALL PROVISIONS OF NEC 210.12. ALL CIRCUIT BREAKERS (OR OTHER LISTED MEANS) SUPPLYING 120-VOLT, SINGLE PHASE 15 AND 20 AMP OUTLETS OR DEVICES INSTALLED IN GUEST ROOMS, GUEST SUITES, DORMITORY UNITS AND CIRCUITS SUPPLYING OUTLETS AND DEVICES OR SIMILAR ROOMS SHALL BE ARC FAULT CIRCUIT INTERRUPTER TYPE.

B. DISCONNECT SWITCHES AND MOTOR STARTERS
1. SWITCHES SHALL BE H.P. RATED HEAVY DUTY TYPE.
2. QUICK-MAKE, QUICK-BREAK OPERATING MECHANISM.
3. STARTERS SHALL BE COMBINATION TYPE, FUSIBLE WITH BIMETAL OVERLOADS IN EACH PHASE.
4. STARTERS SHALL HAVE A "HAND-OFF-AUTO" (HOA) SWITCH UNLESS NOTED OTHERWISE.

C. CONDUCTORS
1. MINIMUM SIZE SHALL BE #12 AWG, EXCEPT FOR CONTROL/LOW VOLTAGE WIRING.
2. INSULATION TYPE SHALL BE THHN.
3. ALL CONDUCTORS SHALL BE COPPER, UNLESS NOTED OTHERWISE.

D. WIRING DEVICES (GENERAL PURPOSE)/FACEPLATE
1. RECEPTACLES SHALL MEET ALL PROVISIONS OF NEC 406.12 (TAMPER-RESISTANT). PROVIDE GROUND FAULT (GFCI), ARC-FAULT, (AFCI) AND WEATHER-RESISTANT WHERE REQUIRED BY CODE.
2. PAINTED WALL LOCATIONS, PROVIDE WHITE DEVICE WITH SMOOTH, WHITE NYLON FACEPLATE, UNLESS DIRECTED OTHERWISE.
3. WOOD STAINED AND TILED LOCATIONS, PROVIDE BLACK DEVICE WITH BRUSHED STAINLESS STEEL FACEPLATE, UNLESS DIRECTED OTHERWISE.
4. ACM (ALUMINUM COMPOSITE PANEL) INTERIOR LOCATIONS, PROVIDE GRAY DEVICE WITH BRUSHED STAINLESS STEEL FACEPLATE, UNLESS DIRECTED OTHERWISE.
5. FOR EXTERIOR WALL LOCATIONS, PROVIDE ARLINGTON DB SERIES OR EQUIVALENT WITH RECESS STEEL BOX AND WEATHERPROOF IN-USE, LOW PROFILE CLEAR COVER, WHITE TRIM.

E. JUNCTION BOXES
1. INTERIOR LOCATIONS SHALL BE PRESSED STEEL.
2. EXTERIOR LOCATIONS SHALL BE HEAVY DUTY CAST ALUMINUM WITH THREADED HUBS.

F. CONDUIT
1. EMT SHALL BE GALVANIZED STEEL.
2. PVC SHALL BE SCHEDULE 40 WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
3. PVC SHALL BE SCHEDULE 80 WHERE EXPOSED TO PHYSICAL DAMAGE.
4. MC CABLE IS ACCEPTABLE WITH LIGHTWEIGHT ALUMINUM INTERLOCKED ARMOR AND INTERNAL REDUNDANT GROUND.

PART 3 – EXECUTION

A. COLOR CODING FOR CONDUCTORS SHALL BE THE FOLLOWING:
1. 480/277 VOLT, THREE PHASE, FOUR WIRE SYSTEM: A PHASE-BROWN, B PHASE-PURPLE, C PHASE-YELLOW, GROUNDED (NEUTRAL)-GREY AND GROUNDING-GREEN.
2. 208/120 VOLT, THREE PHASE, FOUR WIRE SYSTEM: A PHASE-BLACK, B PHASE-RED, C PHASE-BLUE, GROUNDED (NEUTRAL)-WHITE AND GROUNDING-GREEN.
3. CONDUCTORS FOR SERVICES AND BRANCH CIRCUITS #6 AND LARGER SHALL BE IDENTIFIED CONSISTENTLY BY: COLOR CODING, MARKING TAPE OR OTHER APPROVED MEANS.

B. WIRING METHODS
1. CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) UNLESS NOTED OTHERWISE. CONNECTORS AND FITTINGS SHALL BE STEEL SET SCREW OR COMPRESSION TYPE.
2. PVC, AS INDICATED IN PART 2-PRODUCTS (F) SHALL BE INSTALLED BELOW SLAB, UNDERGROUND AND EXPOSED WHERE LISTED FOR SUCH USE.
3. MC CABLE, AS INDICATED IN PART 2-PRODUCTS (F) IS ACCEPTABLE FOR USE WITH GENERAL BRANCH CIRCUITS, RATED 20 AMPERES OR LESS, CONCEALED IN WALLS AND ABOVE SUSPENDED CEILINGS, AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION. IT IS NOT INTENDED TO USE MC CABLE EXPOSED.
3. INSTALLATIONS WITHIN HAZARDOUS (CLASSIFIED) LOCATIONS SHALL MEET ALL REQUIREMENTS FOR THE LOCATION PER NEC 500. PENETRATIONS INTO CLASSIFIED LOCATIONS SHALL BE PROVIDED WITH SEALS AND ALL RACEWAYS WITHIN CLASSIFIED LOCATIONS SHALL BE RIGID STEEL. ALL ELECTRICAL EQUIPMENT INSTALLED IN CLASSIFIED AREAS SHALL BE LISTED FOR USE WITHIN THE LOCATION.
4. FOR NEW LOCATIONS, ALL CONDUITS SHALL BE INSTALLED WITHIN WALL SYSTEM. NO EXPOSED VISIBLE CONDUITS SHALL BE ALLOWED. FOR CONCRETE MASONRY UNIT WALLS (CMU) THE CONDUIT SHALL BE INSTALLED WITHIN VERTICAL CELLS OF BLOCKS AND FOR PRE-ENGINEERED METAL BUILDING WALLS (PEMB) THE CONDUIT SHALL BE INSTALLED BEHIND WALL PANEL.

C. MISCELLANEOUS
1. LAY-IN TYPE LIGHTING FIXTURES SHALL BE SECURED ON ALL FOUR SIDES TO SUSPENDED CEILING.
2. CONDUCTORS FOR BRANCH CIRCUITS SHALL BE INCREASED FROM SIZES INDICATED IN THE PANEL SCHEDULES TO PREVENT VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST DEVICE. LOADS FOR DETERMINING CONDUCTOR SIZE SHALL BE BASED ON ACTUAL CONNECTED LOAD OR 80% OF CIRCUIT BREAKER SIZE, WHICH EVER IS GREATER. CONTACT ENGINEER OF RECORD FOR ALL CIRCUIT RUNS IN EXCESS OF 100 FT. FOR CALCULATION OF WIRE SIZE. FOR BID PURPOSES, INCREASE WIRE SIZE BY ONE FOR CIRCUIT RUNS BETWEEN 100 FT. AND 200 FT. AND TWO WIRE SIZES FOR CIRCUIT RUNS GREATER THAN 200 FT.

D. GROUNDING
1. THE ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED PER THE LATEST EDITION OF THE NEC AND LOCAL CODES. ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE COPPER.

E. COORDINATION
1. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY PRIOR TO STARTING WORK FOR METERING REQUIREMENTS, METERING LOCATION, TRANSFORMER CONDUIT REQUIREMENTS, LUG SIZE REQUIREMENTS AND EXACT SERVICE POINT CONNECTION. SERVICE SHUT DOWN SHALL BE COORDINATED WITH THE OWNER PRIOR TO SCHEDULING WITH UTILITY COMPANY. CONTRACTOR SHALL INSTALL CONDUITS FOR UTILITY PRIMARY FEEDER PER UTILITY GUIDELINES.
2. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL TELEPHONE AND CABLE TV COMPANY PRIOR TO STARTING WORK FOR EXACT SERVICE POINT CONNECTION AND ANY REQUIREMENTS ANY ONE OF THE PROVIDERS MAY NEED.
3. THE CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL, PLUMBING AND VENDOR DOCUMENTS AND SUBMITTALS PRIOR TO PURCHASING ELECTRICAL EQUIPMENT. COORDINATE ALL CONTROL WIRING REQUIRED FOR ALL EQUIPMENT RELATED TO THE PROJECT. PROVIDE ELECTRICAL BREAKERS, DISCONNECTS AND CONDUCTORS AS REQUIRED PER MECHANICAL SUBMITTALS AND ACTUAL EQUIPMENT NAMEPLATE RATINGS.
4. THE CONTRACTOR SHALL LOCATE ALL RECEPTACLES, SWITCHES, BREAKERS AND DISCONNECTS ON OR ADJACENT TO EQUIPMENT SERVED. DEVICES SERVING EQUIPMENT IN FINISHED SPACES SHALL BE CONCEALED WITHIN EQUIPMENT ACCESSIBLE THROUGH EQUIPMENT ACCESS PANELS. I.E. DRINKING FOUNTAINS AND WALL MOUNTED AIR HANDLING UNITS.

F. RECORD DOCUMENTS
1. THE CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD SET OF ANY DEVIATIONS BETWEEN THE WORK AS DESIGNED ON THESE DOCUMENTS AND THAT OF WHICH IS ACTUALLY INSTALLED. THIS RECORD SET OF DRAWINGS SHALL BE KEPT WITH THE GENERAL CONTRACTOR AND REQUIRE APPROVAL FROM THE ARCHITECT/ ENGINEER.

ELECTRICAL SHEET INDEX

SHEET#	DESCRIPTION
E-001	ELECTRICAL NOTES
E-201	PROPOSED MEZZANINE LEVEL LIGHTING PLANS
E-301	PROPOSED MEZZANINE LEVEL POWER PLANS
E-401	PROPOSED MEZZANINE LEVEL MECHANICAL POWER PLANS
E-401A	PROPOSED ALTERNATE MEZZANINE LEVEL MECHANICAL POWER PLANS
E-501	PROPOSED ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
	20 AMP QUADRUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
	20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED ABOVE COUNTER. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT.
PTF	7" DIA. POKE-THRU FLOOR BOX FOR POWER AND COMMUNICATION SERVICE. PROVIDE BRUSHED NICKEL FURNITURE FEED COVER PLATE.
NEMA	SPECIAL PURPOSE POWER DEVICE, COORDINATE EXACT NEMA NUMBER DEVICE WITH EQUIPMENT PLUG UNLESS NOTED OTHERWISE.
	COMMUNICATIONS OUTLET. PROVIDE 1" CONDUIT SLEEVE WITH PULL STRING, STUB INTO ACCESSIBLE CEILING SPACE. MOUNT AT 18" A.F.F. TO CENTER OF OUTLET UNLESS NOTED OTHERWISE.
	COMMUNICATIONS OUTLET. PROVIDE 1" CONDUIT SLEEVE WITH PULL STRING, STUB INTO ACCESSIBLE CEILING SPACE. MOUNTED ABOVE COUNTER TOP, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION.
	RECEPTACLE AND COMMUNICATIONS OUTLET. PROVIDE (2) 1" CONDUIT SLEEVES WITH CABLING, STUB INTO ACCESSIBLE CEILING SPACE. COORDINATE MOUNTING HEIGHT OF BOX WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH IN. PROVIDE FOUR GANG, RECESSED MOUNTED STEEL BOX WITH VOLTAGE DIVIDER AND OPTIONAL COVER PLATE. ARLINGTON TVBS507 OR EQUIVALENT.
CAB	DEVICE MOUNTED IN CABINETRY. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT.
GFI	GROUND FAULT CIRCUIT INTERRUPTER VIA RECEPTACLE
GFIB	GROUND FAULT CIRCUIT INTERRUPTER VIA CIRCUIT BREAKER
OCC	DUPLEX RECEPTACLES – SEPARATE TOP HALF AND BOTTOM HALF OF DEVICE AND CONNECT BOTTOM HALF THRU OCCUPANCY SENSOR IN SAME ROOM. PROVIDE IEC 5009 STICKER ON DEVICE INDICATING CONTROLLED OUTLET. QUADRUPLEX RECEPTACLES – PROVIDE GREEN FACED RECEPTACLE ON LEFT SIDE OF DEVICE AND CONNECT THRU OCCUPANCY SENSOR IN SAME ROOM.
USB	RECEPTACLE WITH INTEGRATED UNIVERSAL SERIAL BUS PORT
TV	TELEVISION OUTLET. PROVIDE 1" CONDUIT SLEEVE WITH PULL STRING, STUB INTO ACCESSIBLE CEILING SPACE. MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
J	JUNCTION BOX
JP	SINGLE GANG JUNCTION BOX, FOR POWER CONNECTION TO MODULAR SYSTEMS FURNITURE, RECESSED WALL MOUNTED. INSTALL IN EXACT MANNER AS DIRECTED BY FURNITURE SUPPLIER. PROVIDE BRUSHED NICKEL FINISH COVER PLATE.
JC	DOUBLE GANG JUNCTION BOX, FOR COMMUNICATION CONNECTION TO MODULAR SYSTEMS FURNITURE, RECESSED WALL MOUNTED. INSTALL IN EXACT MANNER AND LOCATION AS DIRECTED BY FURNITURE SUPPLIER. PROVIDE 2-1" CONDUIT SLEEVES WITH PULL STRING. STUB CONDUITS INTO ACCESSIBLE CEILING SPACE. PROVIDE BRUSHED NICKEL FINISH COVER PLATE.
	PROPOSED ROUTING OF LOW VOLTAGE WIRING FOR DIAGRAMMATIC PURPOSES ONLY.
$	SINGLE POLE, 20 AMP, SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS NOTED OTHERWISE.
$3	3-WAY, 20 AMP, SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS NOTED OTHERWISE.
$OR	LIGHTING CONTROL OVERRIDE SWITCH FOR MANUAL CONTROL OF ASSIGNED RELAY PANEL ZONES. MATCH SWITCH WITH RELAY PANEL SYSTEM PROVIDED. REFER TO OVERRIDE SWITCH SCHEDULE IN LIGHTING PLANS FOR ASSIGNED ZONES.
$M	SINGLE POLE, 20 AMP, MOTION ONLY SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED. SENSOR SWITCH "WSD" SERIES.
$MS	SINGLE/DOUBLE POLE, 20 AMP MOTION/SOUND SWITCH, PASSIVE (PIR) AND ULTRASONIC (US) DUAL TECHNOLOGY. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS NOTED OTHERWISE. SENSOR SWITCH "WSX-PDT" SERIES.
M	LINE VOLTAGE MOTION SENSOR, PASSIVE (PIR) SENSORSWITCH "CMR" SERIES.
MS	LINE VOLTAGE, MOTION/SOUND SENSOR, PASSIVE (PIR) AND ULTRASONIC (US) DUAL TECHNOLOGY. SENSORSWITCH "CMR-PDT" SERIES.
M LV	LOW VOLTAGE MOTION SENSOR, PASSIVE (PIR) SENSORSWITCH "CM" SERIES.
MS LV	LOW VOLTAGE MOTION/SOUND SENSOR, PASSIVE (PIR) AND ULTRASONIC (US) DUAL TECHNOLOGY. SENSORSWITCH "CM-PDT" SERIES.
PP	SELF CONTAINED, PLENUM RATED, DUAL CIRCUIT POWER PACK WITH 20 AMP RATING. SENSORSWITCH "PP" SERIES.
	ELECTRICAL PANELBOARD, SURFACE MOUNTED
	ELECTRICAL PANELBOARD, RECESSED MOUNTED
B/C A	FUSIBLE DISCONNECT SWITCH A = POLES, B= FRAME SIZE, C= FUSE RATING
	GROUNDING ELECTRODE AND CONDUCTOR SYSTEM
	TRANSFORMER
	TELEPHONE WOOD BACKBOARD
EF	EXHAUST FAN. REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS.
	THERMOSTAT LOCATION. REFER TO MECHANICAL DRAWINGS FOR MOUNTING HEIGHT AND SPECIFICATIONS. PROVIDE JUNCTION BOX IN WALL BEHIND THERMOSTAT WITH 1" CONDUIT SLEEVE WITH PULL STRING, STUB INTO ACCESSIBLE CEILING SPACE. CONDUIT AND BOXES SHALL BE CONCEALED / RECESSED IN CONCRETE BLOCK (CMU) WALLS.
MD	MOTORIZED DAMPER (ELECTRICAL POWER REQUIRED). REFER TO MECHANICAL DRAWINGS FOR REQUIREMENTS AND SPECIFICATIONS.
FSD	FIRE SMOKE DAMPER (ELECTRICAL POWER REQUIRED). REFER TO MECHANICAL DRAWINGS FOR REQUIREMENTS AND SPECIFICATIONS.
COP	CARBON MONOXIDE CONTROL PANEL (ELECTRICAL POWER REQUIRED). REFER TO MECHANICAL DRAWINGS FOR REQUIREMENTS AND SPECIFICATIONS.
NL	NIGHT LIGHT FIXTURE, WIRE FIXTURE AHEAD OF LOCAL SWITCHING, CONTACTORS AND RELAYS
(TIE)	USED FOR CLARITY PURPOSES AS FOLLOWS: – TO CONNECT GROUPS OF MULTIPLE DEVICES/LIGHT FIXTURES IN DIFFERENT LOCATIONS TOGETHER ON THE SAME BRANCH CIRCUIT AS INDICATED. – TO INDICATE BRANCH CIRCUIT USED IN DIFFERENT LOCATIONS, FOLLOW KEYNOTES AS INDICATED.

GENERAL FLOOR BOX NOTE:
REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS AND FINAL LOCATIONS PRIOR TO ROUGH IN

COLLINS COOPER CARUSI ARCHITECTS
3391 Peachtree Rd NE, Suite 400
Atlanta, Georgia 30326
404-873-0001

PROMUS
SCOTT MERIWETHER, P.E.
GEORGIA LICENSE #30780
4245 LAND RD
BALL GROUND, GA 30107
PROJECT MANAGER: SCOTT MERIWETHER
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LP Indoor Pavilion, LLC
Managed byLakePoint Land, LLC

755 Highway 293
Emerson, GA 30137

RENOVATIONS TO LAKEPOINT SPORTS PAVILION MEZZANINE

755 Highway 293
Emerson, GA 30137

PROJECT NUMBER
19016.00

GEORGIA REGISTERED PROFESSIONAL ENGINEER SCOTT MERIWETHER

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100% CONSTRUCTION DOCUMENTS 11.15.19
ISSUED FOR BID 01.15.20

NOTE: READ THE SPECIFICATIONS
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SHEET TITLE
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