

ELECTRICAL NOTES

- ELECTRICAL CONTRACTOR TO VERIFY ALL EQUIPMENT ELECTRICAL LOADS, PLUG CONFIGURATIONS, CONDUCTOR TERMINATIONS AND LOCATIONS WITH EQUIPMENT MANUFACTURE RECOMMENDATIONS AND OWNER PRIOR TO ROUGH-IN CONSTRUCTION. ELECTRICAL CONTRACTOR TO CONTACT ENGINEER WITH ANY DISCREPANCIES WITH ELECTRICAL LOADS AND/OR BREAKER SIZES SHOWN ON PLANS AND MANUFACTURE SPECIFICATIONS.
- CONDUCTOR SIZING IS BASED ON 75° C. COPPER NEC RATINGS, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL VERIFY, PRIOR TO INSTALLATION OF CONDUCTORS OR CONDUIT FEEDING ANY EQUIPMENT, THE ELECTRICAL EQUIPMENT IS RATED FOR USE WITH 75 DEGREE C. WIRING. IF ANY EQUIPMENT IS RATED FOR USE WITH LESS THAN 75 DEGREE C. CONDUCTORS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY FOR EVALUATION/CORRECTION.
- ALL WIRING TO BE INSTALLED IN ELECTRICAL IN ELECTRICAL METALIC TUBING, RIGID CONDUIT, INTERMEDIATE CONDUIT OR METAL CLAD CABLE PER N.E.C. ARTICLES 358, 344, 342 & 348.
ALL CONCEALED INTERIOR WIRING SHALL BE IN EMT CONDUIT OR METAL CLAD CABLE.
(A)- FLEXIBLE METALIC TUBING MAY BE USED FOR CONNECTIONS REQUIRING FLEXIBILITY PER N.E.C. ARTICLE 348
(B)- METAL CLAD CABLE MAY BE USED IN WALLS AND ABOVE CEILING WHERE CONCEALED PER N.E.C. ARTICLE 330.334
(C)- LIQUID-TITE FLEXIBLE CONDUIT SHALL BE USED FOR CONNECTIONS TO EQUIPMENT IN WET OR DAMP LOCATIONS PER N.E.C. ARTICLE 350
(D)- ALL BOXES SHALL BE OF METAL TYPE
(E)- ALL EMT CONDUIT FITTINGS SHALL BE SET SCREW OR COMPRESSION TYPE MADE WRENCH TIGHT. COMPRESSION TYPE FITTINGS SHALL BE USED IN WET / DAMP LOCATIONS AND IN COOLER / FREEZER.
- CONDUCTORS TO BE COPPER TYPE THWN FOR EXTERIOR USE AND COPPER TYPE THHN FOR INTERIOR USE.
- IF AVAILABLE FAULT CURRENT IS NOT SHOWN ON ELECTRICAL RISER DIAGRAM, IT IS NOT AVAILABLE FROM UTILITY COMPANY DURING THE DESIGN PHASE. ELECTRICAL CONTRACTOR IS TO CONTACT UTILITY COMPANY FOR AVAILABLE FAULT CURRENT AT SERVICE, PANELBOARDS AND/OR LOADCENTERS AND BREAKERS SHALL HAVE "AIC" RATING GREATER THAN THE AVAILABLE FAULT CURRENT AT EQUIPMENT. AVAILABLE FAULT CURRENT SHALL BE VERIFIED PRIOR TO PANELBOARD AND/OR LOAD CENTER PURCHASE. ELECTRICAL CONTRACTOR SHALL CONTACT ENGINEER OR CALCULATE AVAILABLE FAULT CURRENT WHEN SITE AIC IS AVAILABLE FROM UTILITY CO. PROVIDE INSPECTION DEPT. WITH CALCULATIONS.
- ALL HOMERUN CIRCUITS THAT EXCEED 75' IN CONDUCTOR LENGTH SHALL BE INCREASED BY ONE CONDUCTOR SIZE FOR VOLTAGE DROP REQUIREMENTS, INCLUDING CURRENT CARRYING CONDUCTORS, NEUTRAL CONDUCTORS AND GROUNDING CONDUCTORS. INCREASE CONDUIT SIZE AS REQUIRED FOR INCREASED CONDUCTOR SIZES.
- CIRCUIT LAYOUTS ARE NOT INTENDED TO SHOW THE NUMBER OF FITTINGS, OR OTHER INSTALLATION DETAILS, UNLESS NOTED OTHERWISE. THE EXACT ROUTING OF FEEDER AND BRANCH CIRCUIT RACEWAYS AND CABLES IS THE RESPONSIBILITY OF THE CONTRACTOR. RISER AND GENERAL CIRCUIT ARRANGEMENTS ARE SHOWN SCHEMATICALLY/DIAGRAMMATICALLY ONLY. THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION.
- INSTALL WIRING DEVICES AT HEIGHTS AS SHOWN ON THE DRAWINGS. ALSO COORDINATE MOUNTING HEIGHTS WITH THE ARCHITECTURAL DRAWINGS AND CASEWORK DETAILS. IF CONFLICTING, ARCHITECTURAL DRAWINGS AND DETAILS SHALL GOVERN.
- ALL SWITCHES, RECEPTACLE AND LIGHTS SHALL COMPLY WITH ANSI 117.2 FOR ADA REQUIREMENTS.
- ALL ELECTRICAL DEVICES, FIXTURES, SWITCHGEAR, RACEWAYS, BOXES AND FITTINGS TO BE UL LISTED.
- ALL EXTERIOR WIRING DEVICES, BOXES, ETC. SHALL BE WEATHERPROOF. LIGHTING FIXTURES SHALL BE APPROPRIATELY RATED AND LISTED FOR THE ENVIRONMENT.
- ALL FLUORESCENT LIGHTING FIXTURES SHALL HAVE INTEGRAL DISCONNECTS.
- CONNECT BATTERY PACK TYPE EMERGENCY, EXIT LIGHTING FIXTURES AND FLUORESCENT EMERGENCY BATTERY (BODINE TYPE) BALLASTS TO THE UNSWITCHED LIGHTING CIRCUIT SERVING THE SPACE LIGHTED BY THE EMERGENCY AND EXIT FIXTURES. INTERIOR EMERGENCY LIGHTS AND EXIT SIGNS TO BE CONNECTED TO EMERGENCY/NIGHT LIGHTING CIRCUIT IN AREA IN WHICH FIXTURE SERVES. EXTERIOR EGRESS EMERGENCY LIGHTS TO BE CONNECTED TO EMERGENCY/NIGHT LIGHTING CIRCUIT. CONNECT AHEAD OF ANY SWITCHING, TIMECLOCK, PHOTOCELL CONTROLS OR LIGHTING CONTROLLERS. THESE CONNECTIONS ARE INTENTIONALLY NOT SHOWN TO MAINTAIN CLARITY.
- EXTERIOR LIGHTING TO BE CONTROLLED BY DUSK/DAWN PHOTOCELL WITH BACK-UP OVERRIDE AT MANAGERS DESK.
- ALL MOTORS AND OTHER VIBRATING EQUIPMENT SHALL BE CONNECTED TO THE CONDUIT SYSTEM BY MEANS OF A SHORT SECTION (18 INCH MINIMUM) OF FLEXIBLE CONDUIT UNLESS OTHERWISE INDICATED. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED INSIDE THE FLEXIBLE CONDUIT AND TERMINATE AT THE LOAD END WITH AN APPROVED GROUNDING CLAMP OR LUG.
- ALL MOTORS SHALL HAVE OVERLOAD PROTECTION. DISCONNECT SWITCHES FOR MOTORS ARE TO BE HORSEPOWER RATED, SIZED PER EQUIPMENT NAMEPLATE M.O.C.P.
- SEAL ALL CONDUIT OPENINGS THROUGH EXTERIOR BUILDING WALLS WATER TIGHT.
- ELECTRICAL CONTRACTOR TO COORDINATE ALL MECHANICAL EQUIPMENT WIRING CONDUCTOR SIZES AND M.O.C.P. WITH MECHANICAL CONTRACTOR. COORDINATE WATER HEATER CONDUCTOR SIZES AND M.O.C.P. WITH PLUMBING CONTRACTOR. ALL EQUIPMENT ELECTRICAL REQUIREMENTS TO BE COORDINATED AND VERIFIED WITH OTHER TRADES AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN ELECTRICAL INSTALLATION. ELECTRICAL REQUIREMENTS TO BE CONFIRMED WITH EQUIPMENT TO BE INSTALLED DUE TO POSSIBLE ALTERNATE OR APPROVED EQUAL EQUIPMENT BEING USED, TO BE CONFIRMED PRIOR TO FINAL PROPOSAL, PURCHASING SWITCHGEAR/BREAKERS OR ANY ELECTRICAL ROUGH-IN INSTALLATION.
- EQUIPMENT GROUND CONDUCTORS SHALL BE INSTALLED PER NEC SECTION 250.
- ALL MECHANICAL EQUIPMENT INCLUDING EXHAUST FANS TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. WIRED BY ELECTRICAL CONTRACTOR.
- THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CONDUIT AND EQUIPMENT WITH ALL OTHER TRADES PRIOR TO ELECTRICAL ROUGH-IN INSTALLATION. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR WITH WALL CONSTRUCTION.
- REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF WALLS, WALL ASSEMBLIES AND RATED WALLS.
- FINAL TYPED PANELBOARD DIRECTORIES INSTALLED IN THE PANELBOARD DOOR POCKET SHALL INCLUDE FINAL ACTUAL ROOM NAMES AND NUMBERS IN ADDITION TO THE GENERAL DESCRIPTION SHOWN ON THE PANEL SCHEDULES ON THE DRAWINGS.
- COORDINATION WITH THE UTILITY COMPANY FOR PLACEMENT OF THE UTILITIES FACILITIES AND THE CONTRACTOR'S SERVICE ENTRANCE RACEWAYS AND CONNECTIONS TO THE CONTRACTOR'S SERVICE ENTRANCE CONDUCTORS IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- INSTALLATION INFORMATION PACKED WITH LIGHTING FIXTURES, DEVICES AND EQUIPMENT SHALL BE RETAINED FOR INCLUSION IN THE OPERATIONS AND MAINTENANCE MANUALS.
- INTERIOR LIGHTING IN AREAS NOTED ON PLANS TO BE SWITCHED THROUGH SWITCHING CONTRACTOR.
- PRIMARY AND SECONDARY CONDUCTORS SHALL BE COPPER.

PLANS ARE FOR DESIGN BUILD AND SOME ITEMS MAY NOT BE DETAILED. CONTACT ENGINEER WITH ANY DISCREPANCIES.

ELECTRICAL LEGEND

⌚	SINGLE POLE SWITCH
⌚ _M	MOTOR RATED SWITCH RATED AT 20 AMPS, VOLTAGE TO MATCH EQUIPMENT
⌚	DUPLEX RECEPTACLE
⌚	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER
⌚	GROUND FAULT CIRCUIT INTERRUPTER WITH WEATHERPROOF IN-USE COVER
⌚	QUADRUPLEX RECEPTACLE
⌚	QUADRUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE ABOVE COUNTER (VERIFY COUNTER HEIGHT WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN INSTALLATION)
⌚	20 AMP 230/208V, 1Ø RECEPTACLE
⌚	20 AMP 208V, 3Ø RECEPTACLE
⌚	SINGLE 20 AMP 120V RECEPTACLE
⌚	JUNCTION BOX
⌚	TELEPHONE/DATA JACK (JUNCTION BOX WITH 1" CONDUIT STUBBED TO ABOVE CEILING) CONDUCTORS AND TERMINATIONS PROVIDED AND INSTALLED BY COMMUNICATIONS CONTRACTOR.
⌚	DISCONNECT SWITCH, FUSED, HEAVY DUTY, SIZE AS INDICATED ON DRAWINGS ##A = DISCONNECT SIZE / # = NUMBER OF POLES / # = NEMA RATING ##F = FUSE SIZE
⌚	NON-FUSED PULL DISCONNECT SWITCH ##A = DISCONNECT SIZE / # = NUMBER OF POLES / # = NEMA RATING
⌚	ELECTRICAL PANEL
⌚	LIGHTING CONTACTOR
⌚	DUSK/DAWN PHOTOCELL
⌚	GENERAL CONTRACTOR
⌚	ABOVE FINISHED FLOOR
⌚	ABOVE FINISHED GRADE
⌚	RECEPTACLE
⌚	LIGHTS
⌚	EMPTY CONDUIT
⌚	ISOLATED GROUND
⌚	WEATHER PROOF (DEVICE TO HAVE WEATHERPROOF IN USE COVER)
⌚	GROUND FAULT CIRCUIT INTERRUPTER
⌚	UNSWITCHED NIGHT LIGHT

- NOTES: 1. ELECTRICAL CONTRACTOR TO COORDINATE ALL EQUIPMENT PLUG CONFIGURATIONS WITH OWNER AND GC PRIOR TO ROUGH-IN INSTALLATION.
2. ALL EXTERIOR RECEPTACLES MOUNTED AT 24" HIG UNLESS NOTED OTHERWISE.
3. ALL SWITCHES MOUNTED AT 42" AFF UNLESS NOTED OTHERWISE

ELECTRICAL SPECIFICATIONS

SCHEMATIC	9. BOXES: A. GULF TILE BOXES AND COVERS SHALL BE GALVANIZED, ONE-PIECE PRESSED STEEL KNOCKOUT. B. JUNCTION, PULL BOXES AND COVERS SHALL BE GALVANIZED STEEL, COUDE GAUGE SIZE SERVICES.
INSTALLATION	10. INSTALLATION: A. PROVIDE ELECTRICAL SERVICE AS SHOWN ON THE DRAWINGS. ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE OWNER OR POWER COMPANY, SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. GLOBALLY COORDINATE ENTIRE INSTALLATION WITH OWNER AND POWER COMPANY AS REQUIRED. 11. INSTALLATION: A. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS CHANNELS, RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE FASTENED TO STEEL, CONCRETE OR WOOD, BUT NOT TO PLUMB. ALL CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE. EXPOSED CONDUIT SHALL BE IN 1/2" TRADITION PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES OR BEAMS AND BE SPACED AT LEAST 1/2" FROM WATER LINES WHEREVER THEY RUN ALONG SIDE OR ACROSS SUCH LINES. CONDUCTORS SHALL BE IN CONDUIT, DUCTS OR APPROVED RACEWAYS. B. THE CONTRACTOR SHALL DO ALL CUTTING, CHAMFER OR CHANNELING AND PATCHING REQUIRED FOR ANY WORK UNDER THIS DIVISION. SLEEVES SHALL EXTEND AT LEAST TWO (2) INCHES ABOVE FINISHED FLOOR AND ALL SLEEVES, OPENINGS, ETC., THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED AFTER CONDUIT INSTALLATION TO REMAIN THEIR FIRE RATING. C. THE FOLLOWING EQUIPMENT SHALL BE IDENTIFIED WITH ENGRAVED BAKELITE NAMEPLATES AS TO NAME AND/OR FUNCTION, DISTRIBUTION PANELS AND DISCONNECT SWITCHES. D. THE LOCATION OF OUTLETS AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE AND THE ARCHITECT SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ADDITIONAL COST. E. ELECTRICAL CONTRACTOR SHALL RECORD ALL FIELD CHANGES IN HIS WORK AS THE JOB PROGRESSES. 12. GUARANTEE: A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THIS PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE. B. FOR THE SAME PERIOD, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM. 13. FINALLY: A. IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED. PER 2011 NEC: ARTICLE 110.16 MARK ELECTRICAL PANELBOARDS TO WARN OF POTENTIAL ARC FLASH HAZARDS. MARKING SHALL BE LOCATED TO BE CLEARLY VISIBLE TO QUALIFIED SERVICE OR MAINTENANCE PERSONNEL.
OUTDOOR BRANCH CIRCUITS (EXPOSED)	14. WIRING: A. WIRE SHALL BE SINGLE CONDUCTOR COPPER WITH 90V VOLT INSULATION. MINIMUM WIRE SIZE SHALL BE #12 WIRE. • GENERAL WIRING SHALL BE THIN OR THIN (ALUMINUM CONDUCTORS ARE NOT PERMITTED). B. WIRE CONNECTORS SHALL BE EQUAL BY SODD LOCK FOR 1/8" OR SMALLER AND 1/8" LOCALITY FOR 1/4" OR LARGER.
BRANCH CIRCUITS (CONCEALED)	15. LIGHTING: A. LIGHTING FIXTURES AND LAMPS (UNLESS NOTED OTHERWISE) SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL ALL FIXTURES AND LAMPS.
SUPPLY TO DISTRIBUTION PANELS	16. WIRE DEVICES: A. RECEPTACLES SHALL BE 20 AMP, 3-WIRE GROUNDING TYPE EQUAL TO HUBBELL 582 (MOUNTING @ 18" F.F.). B. SWITCHES SHALL BE STANDARD GRADE RATED 20 AMP AT 120 VOLT (MOUNTING @ 18" F.F.). C. SPECIAL DEVICES SHALL BE A SPECIFICATION GRADE.
SUPPLY TO ROOF TOP UNITS	17. SAFETY SWITCHES: A. PROVIDE SAFETY AND DISCONNECT SWITCHES, FUSED OR NON-FUSED, AS CALLED FOR ON DRAWINGS AND AS REQUIRED BY CODE. SWITCHES SHALL BE HEAVY DUTY, LOAD AND RESPONSE RATED AS MANUFACTURED BY SQUARE D. B. BREAKER TERMINATION TEMPERATURE RATED AT 75 DEGREES CELSIUS.
UNDERGROUND SERVICE ENTRANCE	
FLEXIBLE CONNECTIONS TO ROOF TOP UNITS	

LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER/SERIES	NOM. SIZE	TEMP(°K)	LAMPS	VOLTS	DELIVERED LUMENS	WATTS	LENS	COLOR	MOUNTING HEIGHT	BALLAST/ DRIVER	REMARKS
A	2x4' LED TROFFER	LSI INDUSTRIES ELFP24 LED 35 UE	2x4'	3500	LED	120	4789	45	ACRYLIC	WHITE	FLUSH	LED DRIVER DIMMING	
B	2x2' LED TROFFER	LSI INDUSTRIES ELFP22 LED 35 UE	2x2'	3500	LED	120	3604	36	ACRYLIC	WHITE	FLUSH	LED DRIVER	
C	6" RECESSED LED DOWNLIGHT	CREE CR 6 800L 35K 12 GU24	6"	3500	LED	120	800	12	SEALED	WHITE	FLUSH	LED DRIVER	7, 8
D	4' LED VAPORTIGHT	MOBERN LIGHTING VW 4 48 DMV RF 40	48"x8 75"	4000	LED	120	5570	48	FROSTED DIFFUSE	WHITE	9'-0"	LED DRIVER	2
F	DECORATIVE CORD PENDANT	ALDEN 1 LIGHT PENDANT 7-131-1-109	10"	3000	1-A19 LED	120	1100	12	-	ALUM.	-	-	
G	EXTERIOR WALL SCONCE	SAVORY HOUSE MICA WALL LANTERN 5-5039-132	5.5"x15.5"	4000	1-A21 LED	120	1800	16	CLEAR GLASS	TEAL/RED	7'-0"	-	3, 6, 7
H	EXTERIOR WALL PACK	DURAGUARD MWPQF1K41USK2SP	14.25"x9"	5000	LED	120	5503	47	PRISMATIC GLASS	BRONZE POWDERCOAT	15'-6"	-	3, 6, 7
J	CEILING FAN	SAVORY HOUSE LA SALLE 60-5025-313-13	60"	-	-	120	-	-	-	BRONZE	9'-0"	-	6, 7
X	EXIT UNIT COMBO LIGHT, 6" RED LETTERS, 90 MIN. OPERATION, HO BATTERY, REMOTE CAPABILITY	EXITRONIX VLED-1-WH-EL90-R	24"x11"	-	LED	120	-	1.1	FACEPLATE	WHITE	7'-5"	LED DRIVER	6, 7, 9
EX	REMOTE LED LAMP HEAD WEATHERPROOF 90 MIN. OPERATION	EXITRONIX 20LED-WH	8.5"x6"	-	LED	120	-	2	-	WHITE	7'-5"	-	3, 6, 7, 9
X1	EXIT UNIT	EXITRONIX VEV-U-BP-WB-WH	12"x12"	-	LED	120	-	1.5	FACEPLATE	WHITE	7'-5"	LED DRIVER	6, 7
E	EMERGENCY WALL LIGHT	EXITRONIX 20LED-WH	8.5"x6"	-	LED	120	-	1.5	FACEPLATE	WHITE	7'-5"	LED DRIVER	6, 7
EF	EXHAUST FAN	(SEE MECHANICAL PLANS)	-	-	-	120	-	-	-	-	FLUSH	-	

- REMARKS:
1. BI-LEVEL SWITCHING WIREGUARD
2. DAMP LOCATION REQUIRED SURGE PROTECTION
3. WET LOCATION 6. HO BATTERY MOUNTING HEIGHT WITH OWNER
7. FINAL COLOR SELECTION BY OWNER
8. PROVIDE WITH CORRESPONDING MOUNTING PAN
9. HO BATTERY FOR REMOTE CAPABILITY. CONNECT TO REMOTE FIXTURE

GENERAL NOTE:
A. THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS SPECIFIED IN THIS SCHEDULE AT THE TIME OF PACKAGE QUOTE. DURING THE BID PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DELIVERY/SCHEDULING ISSUES. NO SUBSTITUTIONS WILL BE ALLOWED DUE TO THE LACK OF COORDINATION OF DELIVERY DATES AND CONSTRUCTION SCHEDULE AFTER BID.
D. ALL EXPANDED METALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS.
E. FIXTURES TO BE MOUNTED IN CEILING, INDICATE ON THE ARCHITECTURAL PLANS AS HAVING INSULATION IN CONTACT WITH THE CEILING SURFACE SHALL BE IC RATED BY MANUFACTURER.
F. LIGHTING FIXTURES SHALL MEET THE AESTHETICS, DESCRIPTION AND SPECIFICATIONS. SUBSTITUTIONS SHALL INCLUDE PT. BY PT. CALCULATIONS.
G. LIGHTING FIXTURES, AS SPECIFIED, HAVE BEEN SO SELECTED TO ACHIEVE REQUIRED/DESIRED FOOTCANDLE LEVELS IN THEIR RESPECTIVE AREA. HENCE SPECIFIC FIXTURE CHARACTERISTICS WHICH MAY CREATE PARTICULAR ILLUMINATION RESULTS ARE ESSENTIAL. ANY DEVIATIONS FROM SPECIFIED FIXTURES SHALL DEEM THE SUBMITTING AGENT AND CONTRACTORS RESPONSIBLE IN PROVIDING SUCH DEVIATION FOR THE ARCHITECT/ENGINEER AND OWNER TO MAKE AN INFORMED DECISION.
H. SUBSTITUTIONS APPROVED BY THE ENGINEER PREVIOUS TO BID ARE ACCEPTABLE AS LONG AS THEY ARE EQUAL TO THE FIXTURE SPECIFIED, UNLESS OTHERWISE NOTED. THIS INCLUDES LENS, COLORS, REFLECTORS, PHOTOMETRICS, HOUSING MATERIAL, FINISHES, ETC. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER WITH CUT SHEETS FOR APPROVAL. SUBSTITUTE FIXTURES SHALL BE PRICED WITH THE SPECIFIED FIXTURE AND LISTED SEPARATELY SO THE ARCHITECT, ENGINEER AND OWNER CAN MAKE AN INFORMED DECISION
I. ANY FIXTURE WITH THE TEXT "NL" ADJACENT TO IT SHALL INDICATE THAT THAT FIXTURE IS A NIGHT LIGHT (24HR LIGHT), THE FIXTURE SHALL BE CONNECTED TO THE UNSWITCHED HOT LEG OF THE INDICATED CIRCUIT.
J. ACRYLIC PRISMATIC LENSES SHALL BE 0.156" NOMINAL MINIMUM THICKNESS.
K. ALL EXIT AND EMERGENCY FIXTURES SHALL COMPLY WITH NCSB STANDARDS AND HAVE AUTOMATIC TESTING DEVICES.
L. LED EMERGENCY BATTERY SHALL PROVIDE 1400 MINIMUM LUMENS OUTPUT FROM 1 LAMP FOR 90 MINUTES MINIMUM.
M. LED MODULES SHALL BE REPLACEABLE.
N. ELECTRICAL CONTRACTOR SHALL RECEIVE APPROVAL FOR ALL LIGHTING FIXTURES FROM ARCHITECT/OWNER PRIOR TO PURCHASE AND ROUGH-IN. THE ABOVE FIXTURE TYPES ARE LISTED AS THE DESIGN BASIS.

**2018 APPENDIX B BUILDING CODE SUMMARY
ELECTRICAL SUMMARY
ELECTRICAL SYSTEM AND EQUIPMENT**

METHOD OF COMPLIANCE:
ENERGY CODE: PRESCRIPTIVE PERFORMANCE
ASHRAE 90.1: PRESCRIPTIVE PERFORMANCE

LIGHTING SCHEDULE (EACH FIXTURE TYPE)
LAMP TYPE REQUIRED IN FIXTURE: SEE FIXTURE SCHEDULE
NUMBER OF LAMPS IN FIXTURE: SEE FIXTURE SCHEDULE
BALLAST TYPE USED IN THE FIXTURE: SEE FIXTURE SCHEDULE
NUMBER OF BALLASTS IN FIXTURE: SEE FIXTURE SCHEDULE
TOTAL WATTAGE PER FIXTURE: SEE FIXTURE SCHEDULE

TOTAL INTERIOR WATTAGE: (WHOLE BUILDING)
ALLOWED = 2,976 WATTS
ADDITIONAL 10% = 2,678 WATTS
SPECIFIED = 2,227 WATTS

ADDITIONAL PRESCRIPTIVE COMPLIANCE
 C406.1.1 MORE EFFICIENT MECHANICAL EQUIPMENT
 C406.1.2 REDUCED LIGHTING POWER DENSITY
 C406.1.3 ENHANCED LIGHTING CONTROLS
 C406.1.4 ON-SITE SUPPLY OF RENEWABLE ENERGY
 C406.1.5 PROVISION OF A DEDICATED OUTDOOR AIR SYSTEM FOR CERTAIN HVAC EQUIP.
 C406.1.6 HIGH-EFFICIENCY SERVICE WATER HEATER



Summey Engineering Associates, PLLC
Engineering - Land Planning - Consulting
PO Box 568
Asheboro, NC 27204
Phone: 336-528-0902 Fax: 336-528-0922
E-mail: mack@summey.com
NC Professional Engineering Firm License No. P-9336

No.	Date	Description	By

COOK-OUT RESTAURANTS
4145 S. MEMORIAL DRIVE
PITT COUNTY - WINTERVILLE TOWNSHIP - NORTH CAROLINA

ELECTRICAL SCHEDULES, NOTES AND LEGEND

Scale	AS NOTED
Date	APRIL 2019
Drawn By	ECB
Checked By	HWSJ
Job No.	E-5450

Sheet No. 1 of 6