

SYMBOL SCHEDULE

GENERAL SYMBOLS

- HOMERUN TO PANELBOARD. SEE "CIRCUIT HOMERUN SYMBOL SCHEDULE".
- CONDUIT RUN CONCEALED OVERHEAD ABOVE CEILING AND IN WALLS OR MC CABLE WHERE PERMITTED. USE SURFACE RACEWAY SYSTEM EXPOSED ON INACCESSIBLE EXISTING CONSTRUCTION.
- CONDUIT RUN EXPOSED.
- GFI- GROUND FAULT PROTECTED CIRCUIT.
- CONDUIT RUN CONCEALED BELOW FLOOR.
- FLEXIBLE CONDUIT WITH CONNECTION TO EQUIPMENT SERVED.
- GROUND SIZED PER NEC 250.
- 120/208 VOLT PANELBOARD. SEE PANEL SCHEDULE.
- 277/480 VOLT PANELBOARD. SEE PANEL SCHEDULE.

LIGHTING

- FLUORESCENT STRIP OR INDUSTRIAL LIGHT FIXTURE.

WIRING DEVICES

- DUPLEX RECEPTACLE WALL MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED. EWC- RECEPTACLE SERVING ELECTRIC WATER COOLER. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH PLUMBING CONTRACTOR AND INSTALL RECEPTACLE SO THAT IT IS CONCEALED FROM VIEW.
- R- RECEPTACLE SERVING REFRIGERATOR. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH EQUIPMENT CONTRACTOR AND INSTALL RECEPTACLE SO THAT IT IS CONCEALED FROM VIEW AND DOES NOT IMPEDE THE INSTALLATION OF THE REFRIGERATOR.
- GFI- DUPLEX RECEPTACLE WITH BUILT-IN GROUND FAULT INTERRUPTING MECHANISM.
- S- SAFETY TYPE RECEPTACLE.
- WP- WEATHERPROOF COVER.

- DUPLEX RECEPTACLE WITH BOTTOM OF BOX 2" ABOVE COUNTER BACKSPASH OR AT COUNTER HEIGHT.
- TWO DUPLEX RECEPTACLES IN COMMON BOX.
- TWO DUPLEX RECEPTACLE IN COMMON BOX AT COUNTER HEIGHT.

SWITCHES

- SWITCH RATED 120/277 VOLTS AND 20 AMPERES. SUBSCRIPTS FOR BASIC SYMBOL.
- BLANK- SINGLE POLE
- 2- DOUBLE POLE
- 3- THREE WAY
- 4- FOUR WAY
- D- DIMMER WITH SILICON CONTROLLED RECTIFIER
- P- PILOT LIGHT
- M- MANUAL MOTOR STARTING SWITCH
- K- SINGLE POLE KEY-OPERATED SWITCH

EQUIPMENT CONNECTIONS

- JUNCTION BOX WITH CONNECTION TO EQUIPMENT SERVED.

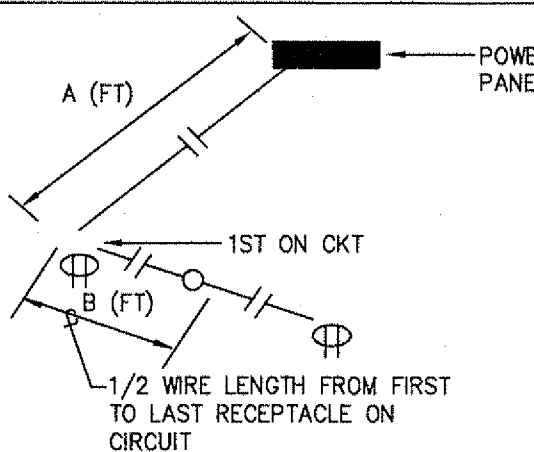
ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A	AMPERE	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCA	MINIMUM CIRCUIT AMPERES
AHU	AIR HANDLING UNIT	MFS	MAXIMUM FUSE SIZE
BB	BACKBOARD	MLO	MAIN LUGS ONLY
C	CONDUIT	MOCPP	MAXIMUM OVER-CURRENT PROTECTION
CB	CIRCUIT BREAKER	PC	PLUMBING CONTRACTOR
CU	CONDENSING UNIT	P	POLE
E	EXISTING	R	EXISTING TO BE RELOCATED
EC	ELECTRICAL CONTRACTOR	RP	EXISTING DEVICE SHOWN IN RELOCATED POSITION
F	FUSE	RTU	ROOF TOP UNIT
FPN	FUSE PER NAMEPLATE	UNO	UNLESS NOTED OTHERWISE
GC	GENERAL CONTRACTOR	V	VOLT
GND	GROUND	WP	WEATHER PROOF
GF	GAS FURNACE	W	WATT
KW	KILOWATT	X	EXISTING TO BE REMOVED
KVA	KILOVOLT-AMPERE	XFMR	TRANSFORMER
MAX	MAXIMUM		
MC	MECHANICAL CONTRACTOR		

CONDUCTOR SIZING TABLE

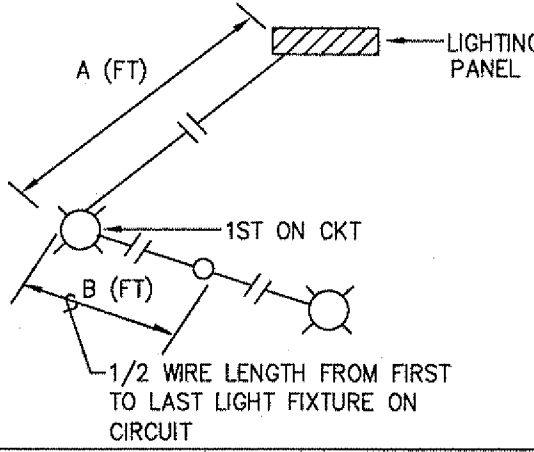
FOR 120V-20A BRANCH CIRCUITS ONLY, UNLESS OTHERWISE NOTED

IF DISTANCE A + B IN FEET IS: (SEE DIAGRAM AT RIGHT)	USE COPPER WIRE IN METALLIC CONDUIT, AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT AND SIZE CONDUIT ACCORDINGLY:
0' TO 100'	#12 (MIN.)
100' TO 175'	#10
175' TO 300'	#8
300' TO 450'	#6 (MAX.)



FOR 277V-20A BRANCH CIRCUITS ONLY, UNLESS OTHERWISE NOTED

IF DISTANCE A + B IN FEET IS: (SEE DIAGRAM AT RIGHT)	USE COPPER WIRE IN METALLIC CONDUIT, AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT AND SIZE CONDUIT ACCORDINGLY:
0' TO 250'	#12 (MIN.)
250' TO 400'	#10
400' TO 700'	#8
700' TO 1000'	#6 (MAX.)



THESE TABLES ARE BASED ON AN EVENLY DISTRIBUTED LOAD ALLOWING A 3% VOLTAGE DROP AT LAST OUTLET. APPLY ACCORDINGLY.

EQUIPMENT DISCONNECT SCHEDULE

- MANUAL MOTOR STARTING SWITCH WITH OVERLOAD PROTECTION EQUAL TO SQUARE-D CLASS 2510 TYPE KG-1 SERIES.
 - HEAVY DUTY SAFETY SWITCH; 3 POLE, 30 AMP, 208 VOLT. FIRST NUMERAL INDICATES QUANTITY OF POLES SECOND NUMERAL INDICATES AMPERE RATING, THIRD NUMERAL INDICATES VOLTAGE. IE: 3P/30A/208V INDICATES 3 POLE, 30 AMP, 208 VOLT, ETC.
 - FUSED HEAVY DUTY SAFETY SWITCH SAME AS ABOVE EXCEPT WITH FUSES. ACTUAL SIZE AND TYPE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. FUSES SHALL BE "RK-5" FUSETRONS.
 - NEMA 3R CONSTRUCTION HEAVY DUTY SAFETY SWITCHES. NO-FUSE AND FUSED SWITCHES RESPECTIVELY AS SPECIFIED ABOVE. /3R INDICATES NEMA 3R CONSTRUCTION.
- NOTE: PROVIDE NEUTRAL BARS, GROUNDING BARS, REJECTION CLIPS, SERVICE ENTRANCE LABELS, FUSES AND ALL OTHER ACCESSORIES REQUIRED FOR THE APPLICATION.

CIRCUIT HOMERUN SYMBOL SCHEDULE

- ONE CIRCUIT HOMERUN TO PANEL "A", CIRCUIT #1.
 - TWO CIRCUIT HOMERUN TO PANEL "A", CIRCUITS #1 & 3. (REQUIRES MULTI-POLE CIRCUIT BREAKER)
 - THREE CIRCUIT HOMERUN TO PANEL "A", CIRCUITS #1, 3, & 5. (REQUIRES MULTI-POLE CIRCUIT BREAKER)
 - ONE CIRCUIT HOMERUN TO PANEL "A", 208 VOLT OR 480 VOLT-1 PHASE CIRCUIT TO POLES #1 & 3.
 - ONE CIRCUIT HOMERUN TO PANEL "A", 208 VOLT OR 480 VOLT-3 PHASE CIRCUIT TO POLES #1, 3, & 5.
- SLASH MARKS INDICATE QUANTITY OF CONDUCTORS OTHER THAN TWO; --- INDICATES NEUTRAL, --- INDICATES HOT, NOTE: TWO WIRE CIRCUITS DO NOT SHOW SLASH MARKS.
- EITHER SLASH MARK INDICATES EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE 250-122.

NCSBC ENERGY CODE COMPLIANCE SECTION 505 ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE: PRESCRIPTIVE PERFORMANCE ENERGY COST BUDGET

LIGHTING SCHEDULE: SEE "LIGHTING FIXTURE SCHEDULE" SEE "LOAD TABULATION"

EQUIPMENT SCHEDULES WITH MOTORS: SEE "MOTOR (LESS HVAC) SCHEDULE" (NOT USED FOR MECHANICAL SYSTEMS)

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, ENERGY CODE.

SIGNED: William Lee Teeter
 NAME: WILLIAM LEE TEETER
 TITLE: PROFESSIONAL ENGINEER

LIGHTING FIXTURE SCHEDULE

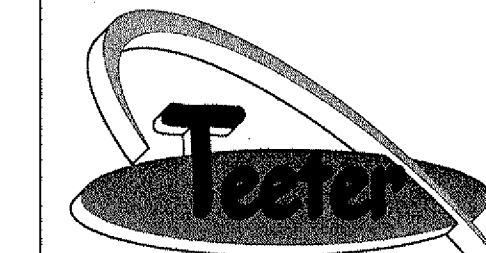
SYMBOL & TYPE	MANUFACTURER & CATALOG NUMBER	DESCRIPTION	LAMP TYPE & QUANTITY	VOLTS/BALLAST	MOUNTING	INPUT WATTS	QTY	TOTAL WATTS
RI O	LITHONIA #LAH-250M-12FW-T73-120V	RECESSED METAL HALIDE DOWNLIGHT WITH PRISMATIC LENS. UL LISTED FOR DAMP LOCATION.	250W METAL HALIDE	120V ELECTRONIC	RECESSED	285	2	N/A
						TOTAL WATTS FOR PROJECT	N/A	
						TOTAL SQUARE FEET	N/A	
						TOTAL WATTS / SQUARE FOOT	N/A	
						ALLOWED WATTS / SQUARE FOOT	N/A	

QUANTITY NOTE
 THE LIGHTING FIXTURE QUANTITIES LISTED IN THIS SCHEDULE ARE FOR NCSBC COMPLIANCE ONLY. THE FLOOR PLANS GOVERN THE ACTUAL QUANTITIES. THE CONTRACTOR SHALL MAKE HIS OWN QUANTITY TAKEOFF.

NORTH CAROLINA STATE BLDG CODE (NCSBC) SECTION 805, ENERGY CODE COMPLIANCE



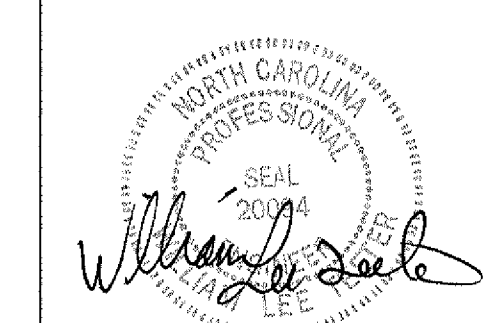
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HT #367
 FALLS OF THE NEUSE
 RALEIGH, NC



9/6/11

PROJECT ENGINEER

WLT

JOB NO. 11127

DR. BY. LJR

REVISIONS

No.	Date

DRAWING NAME

ELECTRICAL LEGENDS

SHEET NO.

E0.2

ISSUE DATE: 09.05.11