

SYMBOL SCHEDULE

GENERAL SYMBOLS		WIRING DEVICES	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—	CONDUIT RUN CONCEALED ABOVE CEILINGS OR IN WALLS.	⊕	DUPLEX RECEPTACLE, 125V, 3-WIRE GROUNDING TYPE.
----	CONDUIT RUN CONCEALED IN OR BELOW FLOORS OR UNDERGROUND.	⊕ EWC	DUPLEX RECEPTACLE, AS ABOVE. LOCATE WITHIN OR BEHIND AN ELECTRIC WATER COOLER. COORDINATE WITH PLUMBER FOR EXACT LOCATION.
— · —	CONDUIT RUN EXPOSED.	⊕ GFI	DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTING.
↻	CONDUIT TURNING UP	⊕ WP	DUPLEX GFCI RECEPTACLE. PROVIDE WITH IN USE WEATHERPROOF COVER.
↻	CONDUIT TURNING DOWN	⊕	TWO DUPLEX RECEPTABLES, AS ABOVE, IN A TWO-GANG BOX WITH TWO-GANG FACEPLATE.
⊕	SQUARE ON CONDUIT SYMBOL INDICATES THAT CIRCUIT CONTINUES BUT NOT SWITCH/LEG.	⊕	SPECIAL PURPOSE RECEPTACLE, WITH SPECIAL NEMA CONFIGURATION AS NOTED.
⊕	HOMERUN TO PANEL AND CIRCUIT(S) DESIGNATED. ARROW(S) INDICATE QUANTITY OF CIRCUITS.	⊕	HEAVY-WALL METAL CONDUIT STUB-UP FROM FLOOR, AT HEIGHT INDICATED, WITH CAST FS-TYPE BOX AND WIRING DEVICE AS INDICATED.
⊕	JUNCTION BOX PER N.E.C.	⊕	WALL OUTLET FOR TELECOMMUNICATIONS. SEE SPECIFICATIONS AND/OR DRAWINGS FOR CONDUIT AND CABLING REQUIREMENTS.
⊕	SPECIAL NOTE, NUMERALS IDENTIFY, SEE SCHEDULE.	⊕	DOT ABOVE OUTLETS INDICATES THAT THE DEVICE IS TO BE INSTALLED ABOVE CASEWORK OR OTHER OBSTACLE. COORDINATE.
⊕	SPECIAL CONNECTION TO A SPECIFIC ITEM OF EQUIPMENT. SEE CONNECTION SCHEDULE.	S	TOGGLE SWITCH, SINGLE-POLE.
⊕	MOTOR CONNECTION. RATING AS NOTED.	S <sub>3</sub>	TOGGLE SWITCH, 3-WAY.
LIGHTING		S <sub>4</sub>	TOGGLE SWITCH, 4-WAY.
SYMBOL	DESCRIPTION	SS	WHERE TWO SWITCHES ARE SHOWN CONTROLLING A SINGLE OR COMMON GROUP OF FLUORESCENT LIGHTING FIXTURES, EACH WITH 3 OR MORE LAMPS, THE SWITCH CLOSEST TO THE DOOR SHALL CONTROL THE INNER LAMP(S) IN EACH FIXTURE, AND THE OTHER SWITCH SHALL CONTROL THE OUTER LAMPS IN EACH FIXTURE. WHERE INDICATED, MASTER-SLAVE BALLAST WIRING SHALL BE UTILIZED TO ACHIEVE THIS CONTROL.
○	FLUORESCENT LIGHTING FIXTURE, DRAWN TO SCALE.	ST	TIME SWITCH, WALL MOUNTED.
○	FLUORESCENT LIGHTING FIXTURE, CONNECTED TO AN EMERGENCY CIRCUIT (SWITCHED)	⊕	FLOOR BOX WITH DUPLEX RECEPTACLE. COVER OF FLOOR BOX SHALL BE FLUSH WITH CONCRETE FLOOR.
○	FLUORESCENT LIGHTING FIXTURE, UTILIZED AS A NIGHT-LIGHT. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT.	⊕	EQUIPMENT CONTROL STATION. MOUNT 48" ABOVE FINISHED FLOOR, BOX ONLY.
○	FLUORESCENT LIGHTING FIXTURE, CONNECTED TO AN EMERGENCY CIRCUIT, CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT.	⊕	OCCUPANCY SENSOR, CEILING MOUNTED.
○	BARE FLUORESCENT STRIP FIXTURE.	TELEVISION SYSTEM	
○	INCANDESCENT, HID OR COMPACT FLUORESCENT LIGHTING FIXTURE, CEILING MOUNTED.	SYMBOL	DESCRIPTION
○	INCANDESCENT, HID OR COMPACT FLUORESCENT LIGHTING FIXTURE, CONNECTED TO AN EMERGENCY CIRCUIT OR EMERGENCY BALLAST.	⊕	TV SIGNAL JACK. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
○	INCANDESCENT, HID OR COMPACT FLUORESCENT LIGHTING FIXTURE, WALL MOUNTED.	FIRE ALARM SYSTEM	
○	INCANDESCENT, HID OR COMPACT FLUORESCENT LIGHTING FIXTURE, WALL MOUNTED, CONNECTED TO AN EMERGENCY CIRCUIT OR EMERGENCY BALLAST.	⊕	FIRE ALARM SYSTEM CONTROL PANEL.
○	EXIT SIGN, CEILING MOUNTED. SHADING INDICATES FACE ORIENTATION. PROVIDE ARROWS AS SHOWN ON PLAN BESIDE SYMBOL.	⊕	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR.
○	EXIT SIGN, WALL MOUNTED. SHADING INDICATES FACE ORIENTATION. PROVIDE ARROWS AS SHOWN ON PLAN BESIDE SYMBOL.	⊕	FIRE ALARM SYSTEM MANUAL 'PULL' STATION.
○	EMERGENCY BATTERY PACK FIXTURE, CEILING MOUNTED. CONNECT TO UNSWITCHED LEG OF THE CIRCUIT.	⊕	FIRE ALARM SYSTEM CEILING MOUNTED PHOTOELECTRIC TYPE SMOKE DETECTOR.
○	EMERGENCY BATTERY PACK FIXTURE, WALL MOUNTED. CONNECT TO UNSWITCHED LEG OF THE CIRCUIT.	⊕	FIRE ALARM SYSTEM DUCT MOUNTED PHOTOELECTRIC TYPE SMOKE DETECTOR.
DISTRIBUTION		⊕	FIRE ALARM SYSTEM FIXED-TEMPERATURE THERMAL DETECTOR.
SYMBOL	DESCRIPTION	⊕	FIRE ALARM SYSTEM CONNECTION TO HOOD FIRE PROTECTION SYSTEM.
⊕	ELECTRICAL PANELBOARD, FLUSH MOUNTED.	⊕	FIRE ALARM SYSTEM COMBINATION ALARM HORN/FLASHING LIGHT SIGNAL DEVICE. PROVIDE SYNCHRONIZED STROBES WHERE 2 OR MORE STROBES ARE LOCATED IN ONE ROOM OR VISIBLE FROM ONE LOCATION.
⊕	ELECTRICAL PANELBOARD, SURFACE MOUNTED.	⊕	FIRE ALARM SYSTEM SIGNAL DEVICE, LIGHT ONLY. PROVIDE SYNCHRONIZED STROBES WHERE 2 OR MORE STROBES ARE LOCATED IN ONE ROOM OR VISIBLE FROM ONE LOCATION.
⊕	CONTROL CABINET, FLUSH OR SURFACE MOUNTED.	⊕	FIRE ALARM SYSTEM CONNECTION TO SPRINKLER WATER-FLOW SWITCH.
⊕	CONNECTION TO GROUND ELECTRODE SYSTEM.	⊕	FIRE ALARM SYSTEM CONNECTION TO SPRINKLER VALVE TAMPER SWITCH.
⊕	ENCLOSED CIRCUIT BREAKER	⊕	REMOTE ALARM INDICATOR. (TO BE USED WITH DUCT DETECTOR)
⊕	DISCONNECT SWITCH, NON-FUSIBLE.		
⊕	DISCONNECT SWITCH, FUSIBLE.		
⊕	DISCONNECT SWITCH PROVIDED WITH EQUIPMENT.		

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	QTY	LAMPS							BALLASTS		WATTS	MOUNTING	MANUF. CATALOG NO.
			TYPE	BULB	BASE	TEMP	CRI	LUMENS	QTY	TYPE				
A2	2'x4' FLUORESCENT TROFFER. GRID TYPE FOR LAY-IN CEILING. 0.125" ACRYLIC PRISMATIC DIFFUSER. FLAT STEEL DOOR FRAME. WHITE FINISH.	120	2	F32	T8	G13	3500 K	75	2850	1	ELECTRONIC HPF, IS PARALLEL	70	CEILING, RECESSED	LITHONIA #2SPG METALUX #2GC DAYBRITE #DPG
A3	2'x4' FLUORESCENT TROFFER. GRID TYPE FOR LAY-IN CEILING. 0.125" ACRYLIC PRISMATIC DIFFUSER. FLAT STEEL DOOR FRAME. WHITE FINISH. TANDEM WIRED FIXTURE. REFER TO MASTER/SATELLITE CONFIGURATION DETAIL.	120	3	F32	T8	G13	3500 K	75	2850	2	ELECTRONIC HPF, RS SERIES	105	CEILING, RECESSED	LITHONIA #2SPG METALUX #2GC DAYBRITE #DPG
B5	4' LONG BARE FLUORESCENT STRIP FIXTURE. STEEL HOUSING WITH WHITE ENAMEL FINISH AND ENDPLATES. PROVIDE WITH WIRE GUARD AND 20% UPLIGHT REFLECTOR.	120	2	F32	T8	G13	3500 K	75	2850	1	ELECTRONIC HPF, IS PARALLEL	70	SUSPENDED 10'-0" AFF OR SURFACE MOUNT IF CEILING IS PROVIDED OR UNLESS OTHERWISE NOTED	LITHONIA #AF METALUX #SS DAYBRITE #T
D2E	RECESSED ROUND, COMPACT FLUORESCENT DOWNLIGHT, SPECULAR CLEAR REFLECTOR WITH WHITE TRIM RING, 8" DIA. NOMINAL APERTURE, HORIZONTAL LAMP POSITION, DAMP LOCATION LABEL.	120	2	26W DTT	T4	4-PIN	3500 K	82	1800	1	ELECTRONIC HPF, PRS SERIES	56	CEILING RECESSED	GOHAM #AF PORTFOLIO #C7 INFINITY #PH VANTAGE #ABHF2 WILLIAMS #PH75
FL	GROUND MOUNTED LED FLOOD LIGHT FOR SIGN ILLUMINATION. CAST ALUMINUM CONSTRUCTION. ADJUSTABLE KNUCKLE, TEMPERED BOROSILICATE GLASS LENS.	120	-	LED	-	-	3000 K	75	390	1	FIXED OUTPUT DRIVER	15W	GROUND	WINONA POPLAR LED OR APPROVED EQUAL
I4	LINEAR FLUORESCENT HIGH BAY FIXTURE, HEAVY-DUTY CODE-GAUGE STEEL CONSTRUCTION, HIGH-GLOSS WHITE BAKED ENAMEL, WIDE DISTRIBUTION, COLD WEATHER BALLAST.	120	4	F54	T5HO	G5	3500 K	75	5000	1	ELECTRONIC HPF, PRS SERIES	162	CEILING SUSPENDED, 16' AFF	LITHONIA #B SERIES OR APPROVED EQUAL
SL	RECESSED ROUND, COMPACT FLUORESCENT DOWNLIGHT, SPECULAR CLEAR REFLECTOR WITH WHITE TRIM RING, CLEAR GLASS LENS, 8" DIA. NOMINAL APERTURE, HORIZONTAL LAMP POSITION, WET LOCATION LABEL.	120	1	26W TRT	T4	4-PIN	3500	82	1250	1	ELECTRONIC HPF, PS SERIES	28	CEILING RECESSED	LITHONIA #8HF SERIES OR APPROVED EQUAL
WL	DECORATIVE EXTERIOR WALL MOUNTED LED FIXTURE, CIRCULAR SHAPE DIE-CAST, ALUMINUM HOUSING, ACRYLIC LENS, TWO LIGHT ENGINES (700mA DRIVE CURRENT), ELECTRONIC DRIVERS, WIDE DISTRIBUTION (SR2), UL, LISTED FOR WET LOCATION. FINISH AS SELECTED BY ARCHITECT.	120	-	LED	-	-	4000 K	70	1770	-	FIXED OUTPUT DRIVER	50	WALL, SURFACE MTG HT AS DIRECTED BY ARCHITECT	LITHONIA #VGR2C LED SERIES OR APPROVED EQUAL
WLE	DECORATIVE EXTERIOR WALL MOUNTED LED FIXTURE, TRAPEZOID SHAPE DIE-CAST, ALUMINUM HOUSING, ACRYLIC LENS, TWO LIGHT ENGINES (10 LED'S EACH), ELECTRONIC DRIVERS, WIDE DISTRIBUTION (SR2), UL, LISTED FOR WET LOCATION. FINISH AS SELECTED BY ARCHITECT.	120	-	LED	-	-	4000 K	70	1770	-	FIXED OUTPUT DRIVER	50	WALL, SURFACE MTG HT AS DIRECTED BY ARCHITECT	LITHONIA #VGR2C LED SERIES OR APPROVED EQUAL
WF	4' LONG WALL MOUNTED FLUORESCENT FIXTURE, HIGH IMPACT LOWER DIFFUSER, SOLID TOP, 20 GAUGE DIE FORMED COLD ROLLED STEEL HOUSING, HIGH GLOSS BAKED WHITE ENAMEL FINISH, DOWNLIGHT DISTRIBUTION ONLY.	120	2	F32	T8	G13	3500 K	75	2850	1	ELECTRONIC HPF, RS SERIES 2-LAMP	70	WALL, SURFACE 8'-0" AFF OR ABOVE MIRROR WHERE APPLICABLE	LITHONIA #WP SERIES DAY-BRITE #C0 SERIES LSI MIDWEST #BR232-SSO COLUMBIA #WAL4 SERIES WILLIAMS #WMA SERIES
UC2	UNDER CABINET TASK LIGHTING UNIT, LOW PROFILE HOUSING, SOLID FRONT, PRISMATIC ACRYLIC DIFFUSER, INTEGRAL REFLECTOR, WHITE FINISH, INTEGRAL TOGGLE SWITCH, 24" NOMINAL LENGTH.	120	1	F17	T8	G13	3200 K	75	1400	1	ELECTRONIC HPF, RS SERIES	20	UNDER CABINET	LITHONIA #N2S METALUX #CL ALCO #SF317 DAY-BRITE #BUC
⊕	EXIT SIGN, WHITE METAL HOUSING, UNIVERSAL MOUNTING, RED STENCIL FACE, QUANTITY OF FACES INDICATED BY SHADING ON SYMBOL. DIRECTIONAL ARROWS AS INDICATED, WITH SELF-CONTAINED BATTERY RESERVE. CONNECT FIXTURE AHEAD OF ALL LOCAL AREA SWITCHING, FIXTURE SHALL NOT BE SWITCHED, SELF DIAGNOSTIC.	120	-	LED DIFFUSE	-	-	-	-	-	-	-	5	WALL OR CEILING AS INDICATED BY SYMBOL	LITHONIA #LE SURE-LITES #CX7 HIGH-LITES #ZCLED
⊕	EMERGENCY LIGHTING UNIT, WITH SELF-CONTAINED BATTERY RESERVE, WHITE THERMOPLASTIC HOUSING, FOR WALL OR CEILING MOUNTING, CONNECT FIXTURE AHEAD OF ALL LOCAL AREA SWITCHING. FIXTURE SHALL NOT BE SWITCHED, SELF DIAGNOSTIC.	120	2	9W INC.	T5	WEDGE	-	-	132	-	-	18	WALL, 1 FT. BELOW CEILING EXCEPT 8 FT. AFF. MAX.	LITHONIA #ELM618 SURE-LITES #CC10SDMRT HIGH-LITES #HL-1245
⊕	EMERGENCY LIGHTING UNIT FOR BAY AREA, WITH SELF-CONTAINED BATTERY RESERVE, WHITE THERMOPLASTIC HOUSING, FOR WALL MOUNTING, CONNECT FIXTURE AHEAD OF ALL LOCAL AREA SWITCHING. FIXTURE SHALL NOT BE SWITCHED, SELF DIAGNOSTIC.	120	2	20W INC.	T5	WEDGE	-	-	300	-	-	40	WALL, 13 FT. AFF OR AS NOTED.	LITHONIA #ELM654 OR APPROVED EQUAL

ELECTRICAL SYSTEM AND EQUIPMENT (2012 NC ENERGY CODE)

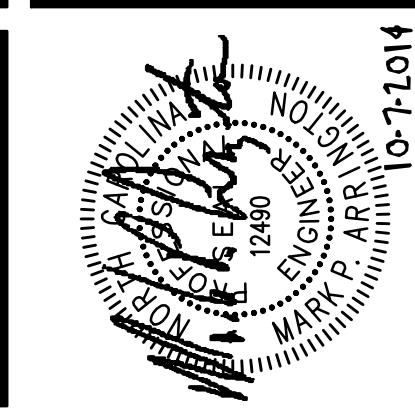
Method of Compliance:  
Energy Code:  Prescriptive  Performance  
ASHRAE 90.1:  Prescriptive  Performance

Lighting schedule  
lamp type required in fixture: REFER TO LIGHTING FIXTURE SCHEDULE  
number of lamps in fixture: REFER TO LIGHTING FIXTURE SCHEDULE  
ballast type used in the fixture: REFER TO LIGHTING FIXTURE SCHEDULE  
number of ballasts in fixture: REFER TO LIGHTING FIXTURE SCHEDULE  
total interior wattage per fixture: REFER TO LIGHTING FIXTURE SCHEDULE  
total interior wattage specified vs allowed: W SPECIFIED / W ALLOWED  
lowest source efficacy for all exterior lamps: 83.9 LUMENS/WATT

- Additional Prescriptive Compliance
- 506.2.1 More Efficient Mechanical Equipment
  - 506.2.2 Reduced Lighting Power Density
  - 506.2.3 Energy Recovery Ventilation Systems
  - 506.2.4 Higher Efficiency Service Water Heating
  - 506.2.5 On-Site Supply of Renewable Energy
  - 506.2.6 Automatic Daylighting Control Systems

DESIGNER STATEMENT:  
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, NC 2012 Energy Code.

SIGNED: Mark P. Arrington  
NAME: MARK P. ARRINGTON  
TITLE: ELECTRICAL ENGINEER



SOUTHEASTERN EMS  
NEW SOUTHEASTERN EMS  
FOR  
RUTHERFORD COUNTY

ISSUE DATE: 10-7-14  
REVISION 1: \_\_\_\_\_  
REVISION 2: \_\_\_\_\_  
REVISION 3: \_\_\_\_\_  
REVISION 4: \_\_\_\_\_  
PROJECT #: 14-190-000  
CONTENT: \_\_\_\_\_  
PROJECT ENGINEER: MPA  
DRAWN BY: MHK  
CADD FILE NAME: \_\_\_\_\_

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