

ELECTRICAL SYMBOLS LEGEND	
SYMBOLS	DESCRIPTION
	FLUORESCENT FIXTURE, WITH FIXTURE DESIGNATED BY LETTER.
NL	NIGHT LIGHT - NOT SWITCHED
	CEILING OR WALL MOUNTED FIXTURE
⊕	JUNCTION BOX
⊕ ⊕	SINGLE/DOUBLE FACED EXIT SIGN - NOT SWITCHED
⊕	DOUBLE HEAD EMERGENCY LIGHT WITH BATTERY BACK UP.
S	SINGLE POLE SWITCH, +48" A.F.F.
S <sub>3</sub>	THREE WAY SWITCH, +48" A.F.F.
S <sub>0</sub>	OUTLET CONTROL INDICATOR
S <sub>D</sub>	DIMMER SWITCH
S <sub>OS</sub>	OCCUPANCY SENSOR SWITCH
S <sub>T</sub>	THERMAL OVERLOAD SWITCH
⊕	DUPLEX RECEPTACLE, +18" A.F.F.
⊕	DUPLEX RECEPTACLE ABOVE COUNTER, VERIFY HEIGHT
⊕	250 VOLT RECEPTACLE PER UNIT REQUIREMENTS
⊕	FOURPLEX RECEPTACLE, +18" A.F.F.
⊕	HALF SWITCHED DUPLEX RECEPTACLE
⊕	POWER/PHONE/DATA FLUSH FLOOR OUTLET
⊕	TELEPHONE/DATA SYSTEM OUTLET, 4" SQUARE BOX AND COVERPLATE, 3/4"C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUN, +18" A.F.F.
⊕	TELEVISION OUTLET PLASTER RING AT +18" A.F.F. (U.N.O.) HUBBELL COVERPLATE. 3/4"C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUNS.
⊕	CONDUIT BELOW FLOOR OR UNDERGROUND
⊕	CONDUIT IN WALL OR ABOVE CEILING
LA 1,3	HOMERUN TO PANEL (SEE GROUNDING NOTE)
	MOTOR CONNECTION
	DISCONNECT SWITCH
⊕	DUCT SMOKE DETECTOR

\*\*\* ALL SYMBOLS ON LEGEND MAY NOT APPLY TO DRAWING(S). \*\*\*

### ELECTRICAL SPECIFICATION

- PRIOR TO SUBMITTING BID, CONTRACTOR SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE, WHICH IN ANY WAY AFFECTS THE WORK UNDER HIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN BEHALF OF THE CONTRACTOR FOR AN ERROR OR NEGLIGENCE ON HIS PART.
- THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER REPAIRS OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND /OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THE CONTRACT. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.
- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS AND BUILDING DETAILS. VERIFY LOCATION OF ALL OUTLETS, SWITCHES, AND WALL MOUNTED LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES. VERIFY ALL CEILING TYPES WITH ARCHITECTURAL DRAWINGS BEFORE ORDERING FIXTURES.
- PRIOR TO ROUGH-IN AND FINAL CONNECTION, VERIFY ELECTRICAL CHARACTERISTICS AND EXACT LOCATION OF EQUIPMENT.
- GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND WATERTIGHT INTEGRITY.
- ALL WIRING TO BE INSTALLED IN 4" RACEWAYS. TYPE OF RACEWAY SHALL BE AS REQUIRED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2". MC CABLE WILL BE ALLOWED WHERE APPROVED BY LOCAL AUTHORITY AND BUILDING OWNER. RACEWAYS RUN ACROSS ROOF SHALL BE MINIMUM 4" ABOVE ROOF.
- BRANCH CIRCUIT WIRING SHALL BE THHN, DOWN IN WALLS. EXTERIOR WIRING SHALL BE THWN-2. PANEL FEEDERS. SHALL BE TYPE XHHW. ALL WIRE SHALL BE COPPER. MINIMUM WIRE SIZE SHALL BE #12. PER NEC SEPARATE NEUTRALS ARE TO BE PROVIDED FOR EACH CIRCUIT OR PROVIDE MULTIPLE POLE HANDLE TIE FOR EACH MULTI-WIRE CIRCUIT
- PROVIDE CORRECT SIZED AND WIRE IN ALL CONDUITS.
- ALL ELECTRICAL EQUIPMENT SHALL BE NEW, U.L. APPROVED AND COMMERCIAL GRADE.
- ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL CODE, (N.E.C.), AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.
- IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ONE (1) SET OF COMPLETE CONSTRUCTION DRAWINGS.
- PROVIDE NEW PANEL DIRECTORIES INDICATING SPECIFIC CIRCUIT INFORMATION TO DISTINGUISH EACH CIRCUIT FROM ANY OTHER PER NEC.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION OF DEVICES, WIRE & CONDUIT, WHERE THESE ITEMS ARE NO LONGER USED ALL UNUSED WIRE SHALL BE REMOVED BACK TO THE PANEL. ANY DOWNSTREAM EQUIPMENT TO REMAIN IN USE SHALL BE RECONNECTED.

ABBREVIATIONS	
E	EXISTING LIGHT OR DEVICE TO REMAIN
ER	EXISTING LIGHT OR DEVICE TO BE REMOVED OR RELOCATED
R	RELOCATED LIGHT OR DEVICE
N	NEW LIGHT OR DEVICE
A.F.F.	ABOVE FINISHED FLOOR
C	CONDUIT
E.C.	EMPTY CONDUIT WITH PULLWIRE
E.D.F.	ELECTRICAL DRINKING FOUNTAIN.
GND	GROUND
MLO	MAIN LUGS ONLY
MCB	MAIN CIRCUIT BREAKER
S.E.S.	SERVICE ENTRANCE SECTION
WP	WEATHER PROOF
WR	WATER RESISTANT
U.N.O.	UNLESS NOTED OTHERWISE

**COMcheck Software Version 4.0.8.1**  
**Interior Lighting Compliance Certificate**

**Section 1: Project Information**

Energy Code: 2009 IECC  
Project Title: Which Wich  
Project Type: Alteration

Construction Site: 975 W Poplar Avenue, Collierville, TN 38017  
Owner/Agent: Run Run Design  
Designer/Contractor: Omid Ardebili, 8100 East Indian School Road, Suite 203, Scottsdale, AZ 85251

**Section 2: Interior Lighting and Power Calculation**

A	B	C	D
Area Category	Floor Area (ft <sup>2</sup> )	Allowed Watts / ft <sup>2</sup>	Allowed Watts (B x C)
Dining, Cafeteria/Fast Food	1756	1.4	2458
Total Allowed Watts =			2458

**Section 3: Interior Lighting Fixture Schedule**

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps / Fixture	# of Fixtures	Fixture Watt.	(C X D)
Design: Cafeteria/Fast Food (1756 sq.ft.)				
LED 1: A: DOWNLIGHT: Other:	1	23	11	253
LED 2: B: DOWNLIGHT: Other:	1	5	11	55
Track lighting 1: D/E: 2' TRACK: Wattage based on current limiting device capacity	0	0	60	60
Track lighting 2: D/E: 2' TRACK: Wattage based on current limiting device capacity	0	0	60	60
Track lighting 3: D/E: 2' TRACK: Wattage based on current limiting device capacity	0	0	60	60
Track lighting 4: D/E: 2' TRACK: Wattage based on current limiting device capacity	0	0	60	60
Track lighting 5: D/E: 2' TRACK: Wattage based on current limiting device capacity	0	0	60	60
Track lighting 6: D/E: 2' TRACK: Wattage based on current limiting device capacity	0	0	60	60
Linear Fluorescent 1: H: 2'X2: 48" T8 32W: Electronic	2	6	64	312
Linear Fluorescent 2: F: 2'X4: 48" T8 32W: Electronic	3	4	96	334
Total Proposed Watts =			1564	

**Section 4: Requirements Checklist**

**Lighting Wattage:**

1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
2458	1564	Passes

**Controls, Switching, and Wiring:**

2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls.

3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:

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4. Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.

Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

4. Independent controls for each space (switch/occupancy sensor).

Exceptions:

Areas designated as security or emergency areas that must be continuously illuminated.

Lighting in stairways or corridors that are elements of the means of egress.

Master switch at entry to hotel/motel guest room.

Individual dwelling units separately metered.

Medical task lighting or ambulatory display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.

Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.

Exceptions:

Only one luminaire in space.

An occupant-sensing device controls the area.

The area is a corridor, storeroom, restroom, public lobby or sleeping unit.

Areas that are less than 0.6 Watts/ft<sup>2</sup>.

9. Automatic lighting shutoff control in buildings larger than 5,000 sq. ft.

Exceptions:

Sleeping units, patient care areas, and spaces where automatic shutoff would endanger safety or security.

Photocell/astrochronometric time switch on exterior lights.

Exceptions:

Lighting intended for 24 hour use.

11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp allowed).

Exceptions:

Electronic high-frequency ballasts; luminaires on emergency circuits or with no available ballast.

**Section 5: Compliance Comment**

Compliance Statement: The proposed lighting alteration project presented in this document is consistent with the building plans, specifications and other documents submitted with this permit application. The proposed lighting alteration project has been designed to meet the 2009 IECC lighting requirements in COMcheck Version 4.0.8.1 and comply with the mandatory requirements in the Requirements Checklist.

Omid Ardebili, 05/17/2018  
Name: Omid Ardebili, Signature: [Signature], Date: 05/17/2018

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LUMINAIRE SCHEDULE								
CALLOUT	SYMBOL	QUANTITY	MODEL	DESCRIPTION	BALLAST	MOUNTING	VOLTS	NOTE 1
A	⊕	(1) 11W LED	CREE LIGHTING LR6-10L-35K-120V-A-DR HOUSING: RC6-GU24 TRIM: LT6BB-DR	6" LED RECESSED DOWNLIGHT W/BLACK RING, 1000 LUMENS, 35K. VERIFY TRIM FINISH.	ELECTRONIC	RECESSED	120V 1P 2W	4
B	⊕	(1) 11W LED	CREE LIGHTING LR6-10L-35K-120V-A-DR HOUSING: RC6-GU24	6" LED RECESSED DOWNLIGHT, 1000 LUMENS, 35K. VERIFY TRIM FINISH.	ELECTRONIC	RECESSED	120V 1P 2W	4
C/E	⊕	(2) 8W LED PAR 20	JUNO TRACK: R2BL TRACK HEADS: R541BL LAMP: LEDBP20030KNFLB CURRENT LIMITER: 0.5A-RCLF11BL/TCL0.5BL.	2"-0" SINGLE CIRCUIT LOW-VOLTAGE TRACK WITH PAR 20 TRACK HEADS. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.	ELECTRONIC	TRACK	120V 1P 2W	4
EM1	⊕	(2) 6W ELP L16B	LITHONIA LIGHTING AFN-W-EXT	ARCHITECTURAL EMERGENCY LIGHTING. XENON LAMPS, WIDE THROW OPTICS, CLEAR PRISMATIC LENS.	ELECTRONIC	WALL	120V 1P 2W	4
EX	⊕	(1) 2W INTEGRAL LED	EXITRONIX VEX-U-BP-WB-WH	EXIT SIGN, WHITE BODY WITH RED LETTERS. BOTTOM OF EXIT SIGN TO BE 3" ABOVE TOP OF DOOR.	ELECTRONIC	CEILING	120V 1P 2W	4
F	⊕	(3) 32W T8	COOPER METALUX LIGHTING 2GR8-332A-UNV-EBB1-U	2X4 RECESSED TROFFER 3-LAMP.	ELECTRONIC	LAY-IN	120V 1P 2W	4
H	⊕	(2) 32W T8	COOPER METALUX LIGHTING 2GR8-2U6T8A-UNV-EBB1-U LAMP: GE-72864	2X2 RECESSED TROFFER U-LAMP.	ELECTRONIC	LAY-IN	120V 1P 2W	4
Y	⊕	(2) 5W INTEGRAL T5 WEDGE	EXITRONIX LED-90	EMERGENCY BUG-EYE WHITE FINISH.	ELECTRONIC	WALL	120V 1P 2W	4

- ALL FIXTURES TO HAVE WHITE FINISH.
- LUMINAIRE & LAMPS FURNISHED BY VILLA LIGHTING SUPPLY: DEREK VICKROY, 2929 CHOUATEAU AVENUE, ST. LOUIS, MO 63103, P: 214.633.0654, EMAIL: derek.vickroy@villalighting.com
  - ALL FIXTURE TYPES MAY NOT BE USED.
  - REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR FIXTURE MOUNTING HEIGHTS.
  - THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING, STORAGE, INSTALLATION, AND WIRING OF LIGHT FIXTURES.
  - THE ELECTRICAL CONTRACTOR SHALL REPORT ANY DAMAGED LIGHT FIXTURES OR MISSING PARTS TO VILLA LIGHTING WITHIN 48 HOURS OF RECEIPT OF LIGHT FIXTURE PACKAGE.
  - ALL FIXTURES TO HAVE WHITE FINISH.

**Electrical Engineer**  
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T 480.361.6269 C 480.626.1838  
Proj. Mgr: TME Proj. No.: 18111

RUN RUN DESIGN

PROJECT NAME AND LOCATION:

**WHICH WICH?**  
SUPERIOR SANDWICHES

STORE #785  
975 W. POPLAR AVENUE  
COLLIERVILLE, TN 38017

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DRAWING REVISIONS:

no.	distribution	date
A	ISSUE DATE	12/21/17
B	SUBMITTAL DATE	--
no.	revision	date
1	--	--
2	--	--
3	--	--

SHEET NAME:  
**ELECTRICAL SPECIFICATIONS & COMCHECK**

project no: 17-085  
dwg no: **E0.0**

**PRELIMINARY NOT FOR CONSTRUCTION**