



FOOD LION
REMODEL
STORE #2839
860 PARRIS ISLAND GWY
BEAUFORT, SC 29906

EMS REMODEL NOTES
FOR ELECTRICAL AND MECHANICAL CONTRACTORS

THESE NOTES ARE PROVIDED TO CLARIFY THE PORTION OF THIS PROJECT. IF THERE IS A CONFLICT BETWEEN THESE NOTES AND THE PRINT THESE NOTES TAKE PRECEDENCE OVER THE PRINT. IF THERE ARE ANY QUESTIONS REGARDING THE INTENT OR SCOPE OF THESE NOTES PLEASE CONTACT SESCO BILL MCCOLLOUGH (336-580-0152 OR BILLY@TRS-SESCO.COM).

ELECTRICAL:

- EACH REFRIGERATION CIRCUIT WILL HAVE ITS OWN ELECTRICAL CIRCUIT. AS AN EXAMPLE, IF ONE REFRIGERATION CIRCUIT IS REMOVED AND IS REPLACED BY TWO REFRIGERATION CIRCUITS AN ADDITIONAL ELECTRICAL CIRCUIT WILL BE REQUIRED. THIS CIRCUIT WILL HAVE LIGHTS AND FANS SEPARATED AND ANTI-SWEAT RAN THROUGH THE ANTI-SWEAT CONTROLLER FOR ALL NEW AND RELOCATED GLASS DOOR FROZEN FOOD CASES.
- ALL REFRIGERATED CASE LIGHTS WILL BE ON LOAD SIX. EXISTING CASES DO NOT APPLY, ALTHOUGH IF AN EXISTING ELECTRICAL CIRCUIT IS RE-USED FOR NEW CASES AND OR RELOCATED CASES THE LIGHTING CIRCUIT WILL NEED TO BE ON LOAD SIX.
- IF A CASE(S) REQUIRES AN ANTI-SWEAT CIRCUIT AND THE EXISTING WIRING DOES NOT HAVE THIS AVAILABLE THEN AN ADDITIONAL CIRCUIT FOR ANTI-SWEAT WILL BE PROVIDED AND RAN THROUGH THE ANTI-SWEAT PANEL. EC NEEDS TO LABEL ALL NEW CIRCUITS WITH BOTH BREAKER AND REFRIGERATION CIRCUIT IDENTIFICATION.
- IF THE FROZEN FOOD LINE UP HAS CHANGED LOCATIONS THE ANTI-SWEAT HUMIDITY SENSOR LOCATION MUST BE RELOCATED. CONTACT THE ENERGY TEAM MEMBER OR YOUR EMS REPRESENTATIVE FOR LOCATION.
- ALL NEW AND EXISTING WALK IN COOLER AND FREEZER LIGHTS ARE TO LOAD 1. INSURE THAT FREEZER LIGHTS AND HEATER ARE NOT ON THE SAME CIRCUIT. DELI WALK-INS CAN BE LOAD 1 OR 4. EC TO FURNISH CONTACTOR(S) IF NEEDED.
- IF THE VESTIBULE HAS BEEN RE-WORKED IN SUCH A MANNER THAT THE INSIDE LIGHTS HAVE NOW BECOME THE OUTSIDE CANOPY LIGHTS, THESE LIGHTS WILL NEED TO BE RELOCATED TO LOAD THREE. IF OUTSIDE LIGHTS HAVE NOW BECOME INSIDE LIGHTS THESE WILL NEED TO BE ON LOAD 1.
- IF A SEAFOOD STEAMER HOOD IS INSTALLED AN INTERLOCK CONTROL BOX WILL SERVE AS A WAY OF RUNNING THE HOOD DURING THE STEAMING PROCESS. POWER FOR THE STEAMER AND CONTROL POWER FOR THE HOOD EXHAUST FAN IS ROUTED THROUGH THIS CONTROL BOX. THE CONTROL POWER FOR THE EXHAUST WILL BE ROUTED THROUGH A LOAD 1 CONTACTOR PRIOR TO FEEDING THIS CONTROL BOX. SEE THE ATTACHMENT FOR DETAIL. THE CONTROL BOX WILL BE SUPPLIED BY SESCO TO THE MECHANICAL CONTRACTOR AND IS TO BE WIRED BY THE ELECTRICAL CONTRACTOR.
- ALL NEW GRID/TRACK LIGHTING WITH LIGHTING INSTALLED ABOVE (E.G. 2x4 FIXTURES OR HIGH-BAYS) WILL BE REQUIRED TO BE TWO CIRCUITED WITH BOTH CIRCUITS ON EMS LOAD 9. EXISTING TRACK LIGHTING THAT DOES NOT HAVE LOAD 1 LIGHTING INSTALLED ABOVE WILL BE REQUIRED TO BE TWO CIRCUITED WITH BOTH CIRCUITS ON EMS LOAD 1. ADDITION CONTACTOR(S) MAY BE REQUIRED AND SUPPLIED BY EC.
- ALL ACCENT LIGHTING (WALL WASH, PERIMETER DOWNLIGHTING, DECOR DOWNLIGHTING OR CASE UP-LIGHTS) WILL BE ON LOAD 14. IN AN OLDER STORE THERE MAY NOT BE A LOAD 14 IN WHICH CASE THE EC WILL WIRE TO LOAD 6. COORDINATE WITH SESCO.
- EC RESPONSIBLE FOR PROVIDING COMMUNICATION CABLE FOR ALL REFRIGERATION CONTROLLERS AND THE HVAC CONTROLLER. THIS WILL BE IN THE FORM OF CAT5 CABLES FOR EACH CONTROLLER WITH STORES THAT HAVE E-2 CONTROLLERS OR 4 WIRE SHIELDED CABLE WITH STORES THAT HAVE EARLIER VERSIONS OF CPC CONTROLLERS. COORDINATE WITH THE SESCO REPRESENTATIVE FOR THIS STORE. YOU CAN CONTACT SESCO AT 336-996-2220.
- IF DE-STRAT FANS ARE USED THEY ARE TO BE WIRED THROUGH LOAD 1 CONTACTORS. EC TO FURNISH CONTACTOR(S) IF NEEDED.
- ANY ADDITIONAL BACK ROOM LIGHTING (OFFICES, RESTROOMS, MACHINE ROOMS ETC.) SHALL BE BROKEN THROUGH LOAD 1 CONTACTORS. EC TO FURNISH CONTACTOR(S) IF NEEDED.
- ALL NEW AND/OR REWORKED EBU LIGHTING AND NIGHT LIGHTING SHALL BE ON A SWITCH FREE CIRCUIT. IF THE EXISTING WIRING IS ON EMS IT WILL NEED TO BE MOVED TO EITHER THE EBU CIRCUIT OR NIGHT LIGHT CIRCUIT.
- FOR ANY STORE RECEIVING A FIRE ALARM UPGRADE. EC SHALL PROVIDE CONDUIT AND TWO 14 AWG WIRE FOR FIRE ALARM CONTACT INTERFACE RELAY WITH ECP. THE TWO 14 AWG SHALL BE ABLE TO REACH ENTIRE ECP AND LABELED "FIRE ALARM". CONTACT SHOULD BE WITHIN FOUR FEET OF ECP WHENEVER POSSIBLE. TERMINATION BY OTHERS.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT REQUIRED BY MECHANICAL CONTRACTOR. BX OR FREE AIR CABLE IS NOT ALLOWED. SENSOR AND CONTROL WIRING CANNOT BE IN SAME CONDUIT. NEEDS TO BE COMPLETED IN A TIMELY MANNER. COORDINATE REQUIREMENTS WITH MC.
- ELECTRICAL CONTRACTOR NEEDS TO INSTALL AND WIRE CT'S FOR THE COOKING EQUIPMENT UNDER THE KITCHEN HOOD. THE CONTROL WIRING FOR THE CT'S WILL BE TAKEN FROM THE HOOD CONTROL PANEL TERMINALS L4 AND L4A (2 #14) AND WIRED IN PARALLEL SO THAT THE HOOD FANS RUN WITH THE EQUIPMENT. CONTACT SESCO PARTS FOR THE NUMBER OF CT'S REQUIRED KEEPING IN MIND THAT ONE CT CAN BE USED ON MORE THAN ONE PIECE OF EQUIPMENT DEPENDING ON WIRE SIZE. CONTACT SESCO COMMISSIONING WITH ANY QUESTIONS.
- IF EC IS REUSING EXISTING CIRCUITS FOR EITHER CONTROL OR POWER FOR THE HOOD FAN(S) HE SHALL ENSURE THAT NEITHER IS CONNECTED TO LOAD 4.
- IN ALL HIGH SPEND STORES THE EC IS TO PHYSICALLY REMOVE THE LITE MISER AND HAVE IT READY TO BE SHIPPED BACK ON THE SALVAGE TRUCK.
- ALL NEW 2x4 LAY IN FIXTURES AT THE DELI SALES AREA NEED TO BE ADDED TO THE LOAD 1 ENERGY MANAGEMENT CONTROL. EC TO FURNISH CONTACTOR IF NEEDED.

MECHANICAL:

- ALL CONTROL WIRING PROVIDED BY THE MECHANICAL CONTRACTOR IS TO BE 14 GAUGE STRANDED. BX CABLE IS NOT ALLOWED. ALL SHIELDED CABLE IS TO BE 22 GAUGE OR LARGER. ALL WIRING SHALL BE IN CONDUIT PROVIDED BY ELECTRICIAN. SENSOR CABLE CANNOT BE IN THE SAME CONDUIT WITH CONTROLS. TERMINATIONS FOR THE MECHANICAL CONTROLS BY MECHANICAL CONTRACTOR.
- IF PRINTS CALL FOR RE-WIRING OF EXISTING FANS IN MOTOR ROOM THE MC IS RESPONSIBLE FOR PROVIDING MOTOR STARTER FOR THREE PHASE FANS OR CONTACTORS FOR SINGLE PHASE FANS IF NO STARTER OR CONTACTOR IS EXISTING. NEW MACHINE ROOM FANS THAT REQUIRE A STARTER OR CONTACTOR SHALL BE PROVIDED BY MC IF NOT ALREADY PROVIDED BY SESCO.
- FOR STORES THAT ARE RECEIVING FIRE ALARM UPGRADE THE MC WILL BE RESPONSIBLE FOR REMOVING ALL OLD SMOKE DETECTORS. ONCE SYSTEM HAS BEEN SWITCHED OVER TO FIRE ALARM CONTACT, SESCO WILL NOTIFY GC IN WRITING. MC WILL THEN REMOVE OLD DETECTORS. WIRING FROM DETECTORS IS TO BE REMOVED TO ASSOCIATED JUNCTION BOXES AND CAPPED OFF WITH WIRE NUTS. WIRING FROM ECP TERMINALS IS TO BE REMOVED TO TROUGH AND CAPPED OFF WITH WIRE NUTS.
- IF THE PRODUCE PREP THERMOSTAT IS BEING REPLACED WITH A TEMPERATURE SENSOR THAT IS WIRED BACK TO THE ECP, THE MC WILL DAISY CHAIN THE SENSOR CABLE FROM THE ECP OVER TO THE APPROPRIATE REFRIGERATION RACK. TERMINATION BY OTHERS.

FIRE ALARM NOTE:

- FOR STORES THAT ARE RECEIVING FIRE ALARM UPGRADE, THE FIRE ALARM CONTRACTOR IS TO INSTALL, POWER, AND MONITOR ALL NEW SMOKE DETECTORS FOR ALL AHU'S AND RTU'S. FA CONTRACTOR IS TO PROVIDE A RELAY ENCLOSED WITHIN FOUR FEET OF THE ECP AND CONTROLLED BY FIRE PANEL. CONTACT WILL BE WIRED BY SESCO. EXISTING (OLD) SMOKE DETECTORS WILL REMAIN IN PLACE UNTIL SESCO SWITCHES SYSTEM OVER TO FIRE ALARM PANEL. REFER TO M1.01.

Revision 10 May 2018

EMS NOTE FOR ENERGY LOAD

PATTERN IN TABLE A IS TYPICAL OF MOST FOOD LION STORES BUILT PRIOR TO 2005. TABLE B IS REPRESENTATIVE OF FOOD LION STORES BUILT AFTER 2005.

ELECTRICAL CONTRACTOR TO FIELD VERIFY EXACT EMS LOAD CONFIGURATION WITH SESCO REPRESENTATIVE PRIOR TO CONNECTION OF ELECTRICAL LOAD TO EMS PANEL.

EMS LOAD 1
(WORK LIGHTS)

LOCATION
WOMEN'S REST ROOM
MENS REST ROOM
LOUNGE
STORAGE / ICE CREAM FREEZER
1/2 SALES AREA LIGHTING
DEPT. MNGR'S OFFICE/ PC TRAINING ROOM
JANITOR'S AREA
MEAT/DELI/BAKERY FREEZER
MEAT PREP
MEAT COOLER
PRODUCE PREP
PRODUCE COOLER
STORE MANAGERS OFFICE
CASH OFFICE/WORK ROOM
CORRIDOR
CHECKOUTS
CUSTOMER SERVICE
DSD STATION
RECEIVING AREA / GROCERY STAGING
DATA CLOSET
VESTIBULE LIGHTS
PRODUCE AIR CURTAINS
PRODUCE ROLL UP DOORS
JANITOR'S AREA EXHAUST FAN
PRODUCE TRACK LIGHTING
WINE TRACK LIGHTING

EMS LOAD 2
(HALF SALES)

LOCATION
1/2 SALES AREA LIGHTING

EMS LOAD 3
(SECURITY)

LOCATION
DOCK CANOPY LIGHTS
FRONT CANOPY LIGHTS
PHARMACY DRIVE THRU CANOPY LIGHTS

EMS LOAD 4
(DELI/BAKERY)

LOCATION
DELI/BAKERY LIGHTING
CHICKEN FRYER
ROTISSERIE
OLIVE CART

EMS LOAD 5
(STOREFRONT)

LOCATION
EXTERIOR STOREFRONT SIGN LIGHTING
ROAD SIGN LIGHTING

EMS LOAD 6
(ALL CASE LIGHTS)

LOCATION
BEER SIGNAGE RECEPTACLES
DAIRY CASE LIGHTS
PRODUCE CASE LIGHTS
MEAT CASE LIGHTS
BAKERY CASE LIGHTS
FROZEN FOOD CASE LIGHTS
LUNCH MEAT CASE LIGHTS
ICE CREAM CASE LIGHTS

EMS LOAD 7
(WATER HEATERS)

LOCATION
WATER HEATERS (MECHANICAL ROOM)

EMS LOAD 8
(PARKING LOT LIGHTS)

LOCATION
PARKING LOT LIGHTING DIRECTLY AFFECTING STORE OPERATIONS

1 EMS LOADS - TABLE A
E6.03 NOT TO SCALE

EMS LOAD 1
(WORK LIGHTS)

LOCATION
WOMEN'S REST ROOM
MENS REST ROOM
LOUNGE
STORAGE / ICE CREAM FREEZER
1/2 SALES AREA LIGHTING
DEPT. MNGR'S OFFICE/ PC TRAINING ROOM
JANITOR'S AREA
MEAT/DELI/BAKERY FREEZER
MEAT PREP
MEAT COOLER
PRODUCE PREP
PRODUCE COOLER
STORE MANAGERS OFFICE
CASH OFFICE/WORK ROOM
CORRIDOR
CHECKOUTS
CUSTOMER SERVICE
DSD STATION
RECEIVING AREA / GROCERY STAGING
DATA CLOSET
VESTIBULE LIGHTS
PRODUCE AIR CURTAINS
PRODUCE ROLL UP DOORS
JANITOR'S AREA EXHAUST FAN
PRODUCE TRACK LIGHTING
WINE TRACK LIGHTING

EMS LOAD 2
(HALF SALES)

LOCATION
1/2 SALES AREA LIGHTING

EMS LOAD 3
(SECURITY)

LOCATION
DOCK CANOPY LIGHTS
FRONT CANOPY LIGHTS
PHARMACY DRIVE THRU CANOPY LIGHTS

EMS LOAD 4
(DELI/BAKERY)

LOCATION
DELI/BAKERY LIGHTING
CHICKEN FRYER
ROTISSERIE
OLIVE CART

EMS LOAD 5
(STOREFRONT)

LOCATION
EXTERIOR STOREFRONT SIGN LIGHTING
ROAD SIGN LIGHTING

EMS LOAD 6
(MED TEMP CASES)

LOCATION
BEER SIGNAGE RECEPTACLES
DAIRY CASE LIGHTS
PRODUCE CASE LIGHTS
MEAT CASE LIGHTS
BAKERY CASE LIGHTS
LUNCH MEAT CASE LIGHTS

EMS LOAD 7
(LOW TEMP CASES)

LOCATION
FROZEN FOOD LIGHTS
FROZEN MEAT LIGHTS
ICE CREAM LIGHTS
FROZEN BAKERY LIGHTS

EMS LOAD 8
(PARKING LOT LIGHTS)

LOCATION
PARKING LOT LIGHTING DIRECTLY AFFECTING STORE OPERATIONS

EMS LOAD 9
(LIGHTS)

LOCATION
NEW TRELIS

EMS LOAD 10
(EXHAUST FAN)

LOCATION
MECHANICAL ROOM

EMS LOAD 11
(SUPPLY FAN)

LOCATION
MECHANICAL ROOM

EMS LOAD 12
(WATER HEATERS)

LOCATION
WATER HEATERS (MECHANICAL ROOM)

EMS LOAD 13
(ACCENT LIGHTING)

LOCATION
RIGHT AND LEFT WALL CASE UP-LIGHTING

EMS LOAD 14
(DECOR/SIGNAGE LIGHTING)

LOCATION
CASE UP-LIGHTING
DEPARTMENT SIGN LIGHTING

EMS LOAD 15
(PARKING LOT SECURITY LIGHTS)

LOCATION
STORE PARKING LOT SECURITY LIGHTING

EMS LOAD 16
(BEER CASE LIGHTING)

LOCATION
BEER CASE LIGHTING

2 EMS LOADS - TABLE B
E6.03 NOT TO SCALE