GENERAL POWER DEMOLITION NOTES:

1. THIS DRAWING INDICATES INTENT ONLY. LOCATION OF ELECTRICAL EQUIPMENT WAS TAKEN FROM RECORD DOCUMENTS AND MAY NOT BE ACCURATE. COORDINATE WITH KROGER FIELD ENGINEER TO CONFIRM LOCATIONS OF ALL EQUIPMENT BEING REMOVED OR RELOCATED. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MAY OCCUR DUE TO THE CONTRACTORS FAILURE TO LOCATE AND PRESERVE EXISTING ELECTRICAL SYSTEMS.

2. COORDINATE DEMOLITION PHASING WITH KROGER PROJECT MANAGER TO AVOID CONFLICTS WITH STORE OPERATIONS.

3. MAINTAIN OPERATION OF ALL EXISTING ELECTRICAL SYSTEMS AND SUBSYSTEMS TO REMAIN. RESTORE ANY ELECTRICAL SYSTEMS TO REMAIN DISRUPTED BY DEMOLITION TO PROPER WORKING ORDER.

4. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL WORK AS REQUIRED TO CLEAR AREAS OF NEW CONSTRUCTION. ANY ELECTRICAL CONDUIT, JUNCTION BOXES, WIRING, ETC. NOT TO BE REUSED MAY BE ABANDONED WHERE CONCEALED AND MUST BE REMOVED WHERE EXPOSED. PROVIDE BLANK COVERS FOR OUTLETS. ANY ABANDONED CONDUIT STUB-UPS SHALL BE CUT INTO SURFACE AND PATCHED.

5. IF AN EXISTING RACEWAY NOT TO BE REUSED INTERFERES WITH NEW WORK, REMOVE BACK TO NEAREST JUNCTION BOX AND BLANK OPENINGS.

6. MAINTAIN CONTINUITY OF BRANCH CIRCUITS SERVING MULTIPLE ITEMS WHERE ONE OR MORE ITEMS IS REMOVED. REMOVE CONDUITS AND WIRING FOR REMOVED ITEMS AS POSSIBLE.

7. CONTRACTOR SHALL REMOVE ALL EQUIPMENT NOT BEING REUSED OR NOT NECESSARY FOR PROJECT COMPLETION FOLLOWING PROPER LEGAL PROCEDURES.

8. IF BRANCH CIRCUIT WIRING THAT IS TO REMAIN IS DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPLACE THE WIRING WITH NEW WIRING OF THE SAME SIZE AND TYPE AT NO COST TO THE OWNER.

9. REPLACE ALL EXISTING COVER PLATES AND WIRING DEVICES WITHIN THE CONSTRUCTION AREA WITH NEW MATERIALS MEETING THE REQUIREMENTS OF THE CONTRACT.

10. PROVIDE NEW, TYPED PANELBOARD SCHEDULES INDICATING SPARES MADE AVAILABLE AND NEW LOADS.

11. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL TEMPORARY POWER WITH CONSTRUCTION PHASING.

GENERAL POWER NOTES:

1. IN GENERAL, ELECTRIC PANELS SHALL CONTAIN 20 AMP CIRCUIT BREAKERS, WITH A MINIMUM OF THREE SPARE BREAKERS PER PANEL. THE ELECTRICAL LOAD ON A 120-VOLT, 20AMP. CIRCUITS SHALL NOT EXCEED 1800 WATTS.

2. WHERE MORE THAN ONE (1) ELECTRICAL LOAD IS DESIGNATED AT AND OUTLET, PROVIDE A SEPARATE CIRCUIT FROM THE ELECTRIC PANEL FOR EACH LOAD. CIRCUIT LOADING LIMITED TO 1800 WATTS, UNLESS OTHERWISE NOTED. LOAD INDICATED FOR CONVENIENCE OUTLETS, SHELVING OR PROMOTIONAL DISPLAYS MAY BE COMBINED INTO ONE CIRCUIT PROVIDED THE 1800 WATT LOAD LIMITATION IS HONORED.

3. THE ELECTRICAL CONTRACTOR SHALL REVIEW THE UNDERSLAB CONDUIT AND RACEWAY LAYOUT WITH THE KROGER PROJECT MANAGER FOR FINAL APPROVAL PRIOR TO SLAB PLACEMENT.

4. ALL OUTLETS IN MEAT PREPARATION ROOM, PRODUCE PREP, SALAD BAR PREP ROOM, AND SEAFOOD DEPARTMENT SHALL BE G.F.C.I. WITH WEATHERPROOF COVER. SEE RLR-ED-1 FOR FLOOR OUTLET DETAIL.

5. RECEPTACLES IN DELI, BAKERY AND FLORAL DEPARTMENTS SHALL BE G.F.C.I. WITHOUT COVERS. SEE RLR-ED-1 FOR FLOOR OUTLET DETAIL.

6. ALL BRANCH CIRCUIT WIRING SHALL BE MINIMUM #12AWG/THWN. FOR RUNS EXCEEDING 50 FEET, WIRING SHALL BE MINIMUM #10AWG/THWN. CONTRACTOR SHALL SIZE WIRING IN ACCORDANCE WITH NEC ART. 210-19, 215-2, 310-15, & 410 FOR VOLTAGE DROP, AND NEC TABLE B310-11 FOR DERATING FACTORS. WIRE SIZES SHOWN ON PLANS ARE MINIMUM. CONDUIT SIZE SHALL BE MINIMUM 3/4". CONTRACTOR SHALL SIZE ALL CONDUIT AND JUNCTION BOXES BASED ON THW CONDUCTOR INSULATION IN ACCORDANCE WITH NEC. ALSO REFER TO SECTION 26 05 19 OF THE SPECIFICATIONS AND NOTE #19 BELOW.

7. BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS WITH INDIVIDUAL NEUTRALS. CONTRACTOR MAY GROUP SINGLE POLE BRANCH CIRCUITS IN MULTIPLE CIRCUIT HOME RUNS WITH A SHARED NEUTRAL (3 CIRCUITS MAXIMUM). SUCH GROUPED CIRCUITS ARE THEN MULTIWIRE BRANCH CIRCUITS. INSTALLATION OF MULTIWIRE BRANCH CIRCUITS SHALL COMPLY WITH ALL 2014 N.E.C. MULTIWIRE BRANCH CIRCUIT REQUIREMENTS PER N.E.C. ARTICLE 210, PARAGRAPH 210.4(B).

8. ALL ELECTRICAL CONDUITS IN THE SALES AREA DESCENDING FROM ROOF FRAMING TO EITHER LOW WALLS OR EQUIPMENT SHOULD BE COORDINATED AND GROUPED TOGETHER WITH OTHER MECHANICAL PIPES.

9. ALL ELECTRICAL EQUIPMENT SHOWN AS EXISTING IS BASED ON AVAILABLE RECORD DOCUMENTS AND MANY NOT BE ACCURATE. CONTRACTOR SHALL VERIFY THIS INFORMATION PRIOR TO BEGINNING WORK.

10. CONTRACTOR SHALL PERFORM A WALK-THRU OF THE SITE TO DETERMINE EXISTING CONDITIONS AND INCLUDE THE PRICE OF ANY REPAIRS NEEDED IN BASE BID.

11. CIRCUIT DESIGNATIONS ARE SHOWN FOR INTENT ONLY. CONTRACTOR SHALL VERIFY CIRCUITS ARE AVAILABLE PRIOR TO BEGINNING WORK.

12. REUSE EXISTING CIRCUITS & CONDUITS MADE AVAILABLE DURING CONSTRUCTION WHERE APPLICABLE. LABEL ALL CIRCUITS NOT REUSED AS SPARE IN PANELBOARD SCHEDULE.

13. ELECTRICAL OUTLETS FOR REFRIGERATED ISLAND CASES MUST BE INSTALLED IN A STRAIGHT LINE ALIGNED WITH THE HUB DRAIN. COORDINATE WITH PLUMBING DIMENSIONED PLAN.

14. PROVIDE 10 FEET OF FLEXIBLE CONDUIT WITH STRANDED CONDUCTORS FOR REFRIGERATED CASES SERVED FROM WALL JUNCTION BOXES AND 6 FEET FOR ISLAND AND SERVICE REFRIGERATED CASES FOR CONNECTION TO CASES BY ELECTRICAL FIXTURING INSTALLATION CONTRACTOR.

15. FOR ELECTRICAL FEEDS AT SHELVING LOCATIONS, UNLESS OTHERWISE NOTED, INSTALL RIGID STEEL CONDUIT FROM JUNCTION BOX LOCATED IN THE STRUCTURAL STEEL ABOVE. LOCATE CONDUIT IN CENTER OF SHELVING RUN; PAINT CONDUIT TO MATCH COLUMNS.

16. ALL WALL OUTLETS IN FOOD PREP AREAS SHALL BE FLUSH MOUNTED. OUTLETS LOCATED ABOVE STAINLESS STEEL TABLES SHALL BE A MINIMUM OF 46" ABOVE FLOOR. NO SURFACE MOUNTED CONDUITS ALLOWED IN MEAT AND PRODUCE PREP ROOMS.

17. TELE-POWER POLES FOR CHECK LANES SHALL BE FURNISHED BY KROGER AND INSTALLED BY KROGER'S ELECTRICAL FIXTURING INSTALLATION CONTRACTOR. TERMINATE AND LABEL CONDUCTORS IN OUTLETS AT BAR JOIST. SEE ESD-62, ESD-62A AND ESD-62B FOR MORE INFORMATION. CONTRACTOR TO PROVIDE ANY OTHER TELE-POWER POLE INDICATED ON THE DRAWINGS. SEE KROGER SPECIFICATION SECTION 26 05 33 FOR ADDITIONAL INFORMATION.

18. PROVIDE A LOCK-ON DEVICE ON THE BREAKER PROTECTING CIRCUITS THAT ARE DESIGNATED WITH AN ASTERISK (*).

19. PANEL 'LN' CIRCUITRY SHALL NOT ORIGINATE OR IN ANY WAY BE CONNECTED OR ROUTED THROUGH DEDICATED ELECTRIC PANEL 'LH'.
2#10AWG/THWN EACH CIRCUIT AND 1" MINIMUM CONDUIT HOMERUN.

20. TWO CASH REGISTERS (GE38) TO SHARE A SEPARATE AND INDEPENDENT CIRCUIT. ALL CIRCUITRY IS EXCLUSIVE AND MUST BE SUPPLIED FROM THE DEDICATED PANEL 'LH', 1" MINIMUM CONDUIT HOMERUN. EACH BRANCH CIRCUIT FOR CASH REGISTERS SHALL BE AS FOLLOWS:
(3) #10AWG WIRES EACH REGISTER - (1) HOT, (1) INDEPENDENT INSULATED & ISOLATED NEUTRAL (CANNOT BE PHASED OUT AT PANEL), AND (1) INDEPENDENT & ISOLATED GROUND.

21. RECESSED DEDICATED ELECTRICAL PANEL 'LH' MUST BE USED EXCLUSIVELY FOR ITEMS SO SPECIFIED, OTHER CIRCUITING WILL NOT BE PERMITTED IN THIS PANEL. PANEL SHALL BE 120/208V, 3ø, 4-WIRE, HAVING 100 AMP MINIMUM BUSSING AND HAVING THE CAPACITY TO ACCEPT A MINIMUM OF [illegible]-POLE BREAKERS. PANEL FEEDERS SHALL CONSIST OF: (3) HOT WIRES, (1) INSULATED & ISOLATED GROUND WIRE AND (1) INSULATED AND ISOLATED NEUTRAL. GROUND AND NEUTRAL BUSSES MUST BE INSULATED AND ISOLATED FROM PANEL. ALL WIRING DEVICES SERVED BY THE DEDICATED ELECTRIC PANELS SHALL BE ISOLATED GROUND WIRE.

23. ALL WALL MOUNTED OUTLETS SERVING REFRIGERATED CASES WITH RETURN AIR PLENUM ABOVE SHALL BE ACCESSIBLE WITH ALL WIRING PLENUM RATED.

24. INSTALL JUNCTION BOX AND CIRCUIT TO POWER THE QUEVISION HANGING FLAT SCREEN MONITORS. CONFIRM THE EXACT LOCATION OF THE MONITORS WITH QUEVISION INSTALLER OR KROGER PROJECT MANAGER BEFORE INSTALLING JUNCTION BOX. QUEVISION INSTALLER TO INSTALL 120V CONVENIENCE OUTLET ON HANGING MONITOR POLE/BRACKET AND MAKE FINAL CONNECTION AT JUNCTION BOX.

GENERAL LIGHTING DEMOLITION NOTES:

1. THIS DRAWING INDICATES INTENT ONLY. LOCATION OF ELECTRICAL EQUIPMENT WAS TAKEN FROM RECORD DOCUMENTS AND MAY NOT BE ACCURATE. COORDINATE WITH KROGER FIELD ENGINEER TO CONFIRM LOCATIONS OF ALL EQUIPMENT BEING REMOVED OR RELOCATED. CONTRACTOR SHALL FIELD VERIFY ALL ELECTRICAL EQUIPMENT LOCATIONS.

2. COORDINATE DEMOLITION PHASING WITH KROGER PROJECT MANAGER TO AVOID CONFLICTS WITH STORE OPERATIONS.

3. MAINTAIN OPERATION OF ALL EXISTING ELECTRICAL SYSTEMS AND SUBSYSTEMS TO REMAIN.

4. COORDINATE STORAGE, REUSE, OR DISPOSAL OF ALL REMOVED LIGHTING FIXTURES WITH KROGER PROJECT ENGINEER.

5. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL TEMPORARY POWER WITH CONSTRUCTION PHASING.

6. ALL LIGHTING FIXTURES BEING DEMOLISHED AND NOT REUSED SHALL BE RETURNED TO KROGER R&S.

7. ALL LIGHTING FIXTURES NOT SHOWN ARE EXISTING TO REMAIN. REFER TO NEW LIGHTING PLAN FOR ADDITIONAL INFORMATION.

GENERAL LIGHTING NOTES:

1. ALL FLUORESCENT LAMPS TO BE 3500° K, UNLESS NOTED OTHERWISE.

2. ALL CONDUIT SHALL BE ROUTED IN SUCH A MANNER AS TO NOT CROSS OR OBSTRUCT THE AREA BENEATH A SKYLIGHT.

3. MULTIWIRE BRANCH CIRCUIT SYMBOLS ARE SHOWN WITH MAXIMUM OF THREE CIRCUITS PER INDIVIDUAL HOMERUN. CONTRACTOR SHALL PROVIDE AN INDIVIDUAL NEUTRAL PER CIRCUIT OR FURNISH AND INSTALL CIRCUIT BREAKER HANDLE TIES AS REQUIRED BY NEC ARTICLE 210, PARAGRAPH 210.4(B).

4. REUSE EXISTING CONDUITS AND WIRING IF POSSIBLE. ELECTRICAL CONTRACTOR SHALL PERFORM MAINTENANCE ON ALL EXISTING ELECTRICAL ITEMS TO RESTORE THEM BACK TO THEIR PROPER OPERATING CONDITION AND REPLACE IF NECESSARY. CLEAN AND RELAMP ALL EXISTING LIGHT FIXTURES. REPLACE ALL DAMAGED FIXTURES OR PARTS OF THE FIXTURES WITH NEW TO MATCH EXISTING.

5. SEE DRAWING E6.1 FOR LIGHTING FIXTURE SCHEDULE.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL ABANDON ELECTRICAL CONDUIT, WIRE, ETC. AFTER COMPLETE INSTALLATION OF NEW EQUIPMENT.

7. CONTRACTOR SHALL MAINTAIN ILLUMINATION OF STORE DURING REMODEL. COORDINATE PHASING OF LIGHTING REMOVAL IN SALES AREA WITH KROGER PROJECT MANAGER.

8. ALL ELECTRICAL EQUIPMENT SHOWN AS EXISTING IS BASED ON AVAILABLE RECORD DOCUMENTS AND MAY NOT BE ACCURATE. CONTRACTOR SHALL VERIFY THIS INFORMATION PRIOR TO BEGINNING WORK.

9. CONTRACTOR SHALL PERFORM A WALK-THRU OF THE SITE TO DETERMINE EXISTING ELECTRICAL CONDITIONS AND INCLUDE THE PRICE OF ANY REPAIRS NEEDED IN BASE BID.

10. CIRCUIT DESIGNATIONS ARE SHOWN FOR INTENT ONLY. CONTRACTOR SHALL VERIFY CIRCUITS ARE AVAILABLE PRIOR TO BEGINNING WORK.

11. REUSE EXISTING CIRCUITS & CONDUITS MADE AVAILABLE DURING CONSTRUCTION WHERE APPLICABLE. LABEL ALL CIRCUITS NOT REUSED AS SPARE IN PANELBOARD SCHEDULE.

12. ALL LIGHTING FIXTURES THAT ARE NOT LABELED ARE EXISTING TO REMAIN. REFER TO SHEET E6.2.4 FOR EXISTING LIGHT FIXTURES SCHEDULES. ELECTRICAL CONTRACTOR SHALL PERFORM MAINTENANCE ON ALL EXISTING ELECTRICAL ITEMS TO RESTORE THEM BACK TO THEIR PROPER OPERATING CONDITION AND REPLACE IF NECESSARY. CLEAN AND RELAMP ALL EXISTING LIGHT FIXTURES. REPLACE ALL DAMAGED FIXTURES OR PARTS OF THE FIXTURES WITH NEW TO MATCH EXISTING.

13. INSTALL CONDUIT FOR LIGHTING CIRCUITRY IN ALL PREP AREAS WITH INSULATED PANEL CEILINGS ABOVE INSULATED PANEL CEILING WITH CONDUIT STUBBED THROUGH PANEL TO LIGHT FIXTURE. PROVIDE SEALANT IN CONDUIT STUB TO PREVENT AIR PASSAGE IN CONDUIT. REFER TO ESD-26A FOR ADDITIONAL INFORMATION. SURFACE MOUNTED CONDUIT IS NOT ALLOWED IN MEAT AND PRODUCE PREP ROOMS.

14. PROVIDE A LOCK-ON DEVICE ON THE BREAKER PROTECTING CIRCUITS THAT ARE DESIGNATED WITH AN ASTERISK (*).

15. ALL EXTERIOR LIGHTING AND SIGN CIRCUITS SHALL BE MINIMUM #10 AWG/THWN AND INCLUDE PHOTOCELL CONTROL. SEE ESD-13.

16. SIGN CIRCUITS SHALL BE CONTROLLED BY LIGHTING CONTROLLER. SEE SPECIFICATION AND ESD-13. VERIFY MOUNTING HEIGHTS OF ALL JUNCTION BOXES FOR SIGNS IN FIELD PRIOR TO ROUGH-IN.

17. ALL FLUORESCENT FIXTURES IN BACKROOM AREAS TO BE INSTALLED ABOVE THE BOTTOM OF THE JOIST, UNLESS NOTED OTHERWISE. FIXTURES SHALL NOT BE LOCATED ABOVE HVAC DUCT OR IN SUCH A MANNER AS TO ALLOW OTHER BUILDING COMPONENTS TO BLOCK THE LIGHT DISTRIBUTION. METAL DECKING SHALL NOT BE USED TO SUPPORT LIGHT FIXTURES.

18. THE ELECTRICAL CONTRACTOR SHALL FINAL ADJUST PRODUCE TRACK LIGHT FIXTURES AS DIRECTED BY THE KROGER PROJECT MANAGER OR PRODUCE MANAGER 24 HOURS PRIOR TO GRAND OPENING OR AT A TIME SPECIFIED BY THE KROGER PROJECT MANAGER. TO THE EXTENT POSSIBLE THE FIXTURES SHOULD BE AIMED INTO THE STORE AWAY FROM THE PRIMARY ENTRANCE OF THE STORE TO REDUCE VISUAL GLARE. SEE LIGHTING FIXTURE SCHEDULE FOR MOUNTING HEIGHT.

19. ROOF PENETRATIONS FOR CONDUIT SERVING OTHER THAN [illegible] SHALL BE INSTALLED [illegible] MAINTAIN A MINIMUM DISTANCE OF 18 INCHES FROM CONDUIT PENETRATION TO ROOF CURB.

20. THE SALES AREA LIGHT LEVEL SENSOR SHALL BE FURNISHED BY KROGER AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE ELECTRICAL SYMBOLS LEGEND AND LIGHTING PLAN FOR MORE INFORMATION.

21. LIGHT FIXTURES TO BE USED AS SECURITY LIGHTS. INSTALL FIXTURES PER LIGHTING FIXTURE SCHEDULE, UNLESS NOTED OTHERWISE. FIXTURES MOUNTED ON DOCK AREA MAY BE MOUNTED AT A DIFFERENT HEIGHT FROM MAIN BUILDING MOUNTED FIXTURE.

22. OCCUPANCY SENSORS SHALL BE SUPPLIED BY KROGER AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE ELECTRICAL SYMBOLS LEGEND FOR ADDITIONAL INFORMATION.

23. WHEN AN RTU DROP BOX DIFFUSER CONFLICTS WITH THE LOCATION OF A TYPE 'B' SALES AREA LIGHT FIXTURE THE LIGHT FIXTURE SHALL BE SHIFTED ONLY ENOUGH TO CLEAR THE DROP BOX DIFFUSER.

24. STANDARD EXIT SIGN MOUNTING HEIGHTS
2'-0" ABOVE EXIT DOOR OR GLASS TRANSOM ABOVE EXIT DOOR IF NO CEILING
1'-0" ABOVE EXIT DOOR OR CENTERED IN SPACE IF CEILING
2'-0" ABOVE LIGHT FIXTURES IN SURROUNDING AREA IF PENDANT MOUNTED.

25. ALL ELECTRICAL CONDUITS IN THE SALES AREA DESCENDING FROM ROOF FRAMING TO EITHER LOW WALLS OR EQUIPMENT SHOULD BE COORDINATED AND GROUPED TOGETHER WITH OTHER MECHANICAL PIPES.

NOTE:

SEE LIGHT FIXTURE SCHEDULE THIS SHEET. ALL LIGHT FIXTURES AND LAMPS TO BE PROVIDED BY KROGER.

CONTRACTOR RESPONSIBILITIES FOR KROGER SUPPLIED MATERIALS

1. RECEIVE, UNLOAD, STORE AND PROTECT PRODUCT ON SITE.
2. INSPECT PRODUCTS UPON RECEIPT FOR SHORTAGES, DAMAGES OR DEFECTS AND NOTIFY SUPPLIER WITHIN 24 HOURS.
3. NOTIFY SUPPLIER WITHIN 20 DAYS OF RECEIPT OF ANY HIDDEN DAMAGES FOR PRODUCTS REVIEWED.

ELECTRICAL SYMBOL LEGEND

GENERAL SYMBOL EXPLANATION

SYMBOL	DESCRIPTION
	WALL OUTLET - HEIGHT AS INDICATED ON PLAN
	OUTLET INSTALLED IN JOIST SPACE, UNLESS NOTED OTHERWISE
	SURFACE MOUNTED OUTLET
JB	JUNCTION BOX
WP	WEATHERPROOF
	ON THE GROUND FLOOR, USE HUBBELL FLUSH FLOOR BOX #PFB1/PFBA1A WITH #CR5362GY 20A DUPLEX RECEPTACLE, FLUSH COVER #S3082/S3925 AND FITTINGS SHALL BE BRASS. ON THE MEZZANINE, USE HUBBELL FIRE-RATED POKE-THROUGH ONE-PIECE UNIT #S1PT4X4BRSJ. POWER AND DATA SHALL BE INCLUDED IN BOTH UNITS.
	120V., SINGLE RECEPTACLE GROUNDED TYPE, 2'-0" ABOVE FLOOR UNLESS NOTED OTHERWISE.
	120V., DUPLEX RECEPTACLE GROUNDED TYPE, 2'-0" ABOVE FLOOR UNLESS NOTED OTHERWISE.
	120V., DUPLEX RECEPTACLE ISOLATED GROUNDED TYPE, 2'-0" ABOVE FLOOR UNLESS NOTED OTHERWISE.
	120V., DUPLEX RECEPTACLE GFCI TYPE, 2'-0" ABOVE FLOOR UNLESS NOTED OTHERWISE.
E	120V. JUNCTION BOX
J	JUNCTION BOX AS NOTED ON PLAN
	208V., 3-PHASE JUNCTION BOX. RECEPTACLE (HBL8420 FOR 20A / HBL8430 FOR 30A) WHERE REQUIRED. VERIFY EXACT RECEPTACLE REQUIREMENTS WITH EQUIPMENT.
	120/208V., 3-PHASE JUNCTION BOX. RECEPTACLE (HBL7250 FOR 20A / HBL8330 FOR 30A) WHERE REQUIRED. VERIFY EXACT RECEPTACLE REQUIREMENTS WITH EQUIPMENT.
	208V., 1-PHASE JUNCTION BOX. RECEPTACLE (HBL5462 FOR 20A / HBL9330 FOR 30A) WHERE REQUIRED. VERIFY EXACT RECEPTACLE REQUIREMENTS WITH EQUIPMENT.
	120/208V., 1-PHASE JUNCTION BOX. RECEPTACLE (HBL8410 FOR 20A / HBL9430 FOR 30A) WHERE REQUIRED. VERIFY EXACT RECEPTACLE REQUIREMENTS WITH EQUIPMENT.
	120V., CEILING MOUNTED DUPLEX RECEPTACLE, GROUNDED TYPE. PROVIDE GROUND FAULT PROTECTION WHEN THE CORD TO BE CONNECTED (SERVING THE EQUIPMENT) DOES NOT CONTAIN A GROUND CONDUCTOR.
	120V., QUAD RECEPTACLE GROUNDED TYPE, 2'-0" ABOVE FLOOR UNLESS NOTED OTHERWISE.
	DISCONNECT SWITCH
	COMBINATION SWITCH AND STARTER
[LLS]	MOUNT LIGHT SENSOR INSTALLED ON ROOF FACING NORTH ENSURING SUNLIGHT CANNOT SHINE DIRECTLY INTO THE SENSOR. SENSOR SUPPLIED BY KROGER AND CONNECTED TO EMS SYSTEM BY CONTRACTOR. (Reference ESD-53)
	TELEPHONE/DATA OUTLET. FLUSH MOUNTED IN FINISHED AREAS. COORDINATE COVER CONFIGURATION WITH KROGER PROJECT MANAGER
S	SINGLE POLE LIGHT SWITCH (3)3-WAY, (4)4-WAY, (PL)PILOT LIGHT, (M)MOTOR RATED
S_{TS1}	TIMER SWITCH WITH WARNING FLICKER FEATURE TO SIGNAL END OF 'ON' TIME. FIELD ADJUST TO 20 MINUTE OPERATION. COOPER (GREENGATE) TSW-MV.
S_{TS3}	3-WAY TIMER SWITCH WARNING FLICKER FEATURE TO SIGNAL END OF 'ON' TIME. FIELD ADJUST TO 20 MINUTE OPERATION. COOPER (GREENGATE) TSW-MV.
S_{MS1}	OCCUPANCY SWITCH, SINGLE LOAD. WATTSTOPPER OS P/N PW-100
S_{US1}	OCCUPANCY SWITCH, DUAL LOAD. WATTSTOPPER OS P/N UW-200
S_{MO1}	MOMENTARY OVERRIDE SWITCH. COOPER (GREENGATE) AML SWITCH WITH NO LED. [illegible] 116 ONE GANG, 1 SWITCH STAINLESS STEEL SWITCHPLATE [illegible] 116.
	MOTOR CONNECTION BY CONTRACTOR
	CONDUIT CONCEALED UNDER FLOOR SLAB
	CONDUIT EXPOSED
	CONDUIT CONCEALED IN WALL OR CEILING
	CONDUIT EXPOSED
	EXIT LIGHT FIXTURE
SI	LIGHT LEVEL SENSOR INSTALLED IN SKYLIGHT AND CONNECTED TO EMS SYSTEM FOR LIGHT HARVESTING. MOUNT VERTICAL LOOKING UP INTO SKYLIGHT 12" FROM TWO ADJACENT SIDES INSIDE SKYLIGHT LEVEL WITH ROOF DECK. SUPPLIED BY KROGER.
	ONE WAY CEILING MOUNTED LIGHTING SENSOR WITH SWITCHPACK ABOVE CEILING. CONNECT SENSOR TO SWITCHPACK WITH #18 AWG CLASS 2 CONDUCTORS. WATTSTOPPER OS P/N WT-600.
OS2	TWO WAY LIGHTING SENSOR SUSPENDED 12'-6" A.F.F. OR AT CEILING WITH SWITCHPACK MOUNTED AT BAR JOIST. CONNECT SENSOR TO SWITCHPACK WITH #18 CLASS 2 CONDUCTORS. WATTSTOPPER OS P/N WT-1100.
	TWO WAY LIGHTING SENSOR SUSPENDED 12'-6" A.F.F. OR AT CEILING WITH SWITCHPACK MOUNTED AT BAR JOIST. CONNECT SENSOR TO SWITCHPACK WITH #18 CLASS 2 CONDUCTORS. WATTSTOPPER OS P/N WT-2200.
OS4	TWO WAY LIGHTING SENSOR SUSPENDED 15'-6" A.F.F. OR AT CEILING WITH SWITCHPACK MOUNTED AT BAR JOIST. CONNECT SENSOR TO SWITCHPACK WITH #18 CLASS 2 CONDUCTORS. WATTSTOPPER OS P/N WT-2250.
OS5	ONE WAY WIDE ANGLE OCCUPANCY SENSOR. WATTSTOPPER OS P/N FS-705.
OS6	MOTION SENSOR - WET LOCATION OCCUPANCY SENSOR. WATTSTOPPER HB350W-HBL2W (MODULE WITH LENS).
OS7	MOTION SENSOR - PASSIVE INFRARED OCCUPANCY SENSOR. WATTSTOPPER HB350B-L3 (MODULE WITH LENS).
TS	TEMPERATURE SENSOR FOR REFRIGERATED CASE. SEE REFRIGERATION PLANS FOR MORE INFORMATION.
DT	DEFROST TERMINATION SENSOR FOR REFRIGERATED CASE. SEE REFRIGERATION PLANS FOR MORE INFORMATION.

ELECTRICAL EQUIPMENT REQUIREMENTS

NAME	ELECTRICAL REQUIREMENTS
ACLR4C-T	120V, 1PH, 720W DEDICATED CIRCUIT W/ ISOLATED GROUND RECEPTACLE FOR USCAN CHECKOUT LANE. ADDITIONAL QUAD OUTLET (86W TOTAL) ON A SEPARATE CIRCUIT FOR EAS DEACTIVATOR.
ACRL4C-T	120V, 1PH, 720W DEDICATED CIRCUIT W/ ISOLATED GROUND RECEPTACLE FOR USCAN CHECKOUT LANE. ADDITIONAL QUAD OUTLET (86W TOTAL) ON A SEPARATE CIRCUIT FOR EAS DEACTIVATOR.
ALS9665-FS(R)	500W FOR REGISTER (DEDICATED CIRCUIT) AND 264W FOR BELT ON ENTERPRISE STANDARD CHECKSTAND (96" FM, 65" RM)
AUAS	120V, 10A MIN. DEDICATED CIRCUIT FOR ENTERPRISE SELF-CHECKOUT ATTENDANT STATION
BV5D8HX(R)	8' FIVE-DECK BEVERAGE CASE
BV5D12HX(R)	12' FIVE-DECK BEVERAGE CASE
C39-4(R)	4' BEAUTY CARE LIGHT VALANCE
C39-4S(R)	4' BEAUTY CARE LIGHT VALANCE (STARTER)
C39M-4	120V, 5.1W FOR 4 FT COSMETIC LIGHT VALANCE
C39M-4S	120V, 5.1W, FOR 4 FT COSMETIC LIGHT VALANCE (STARTER)
C40B-4	120V, 150W, FOR 4 FT COSMETICS BACKLIGHT SECTION
D15CD-208	(2) 208V, 3PH, 4W, 45.7A (16.5KW) (50 AMP BREAKER EACH) 2'-0" AB FL, SHUNT TRIP CIRCUIT
D23T	120V 1PH .75AMPS FOR SERVICE SCALE/UPC PRINTER (TOLEDO), PROVIDE A 3/4" COND. TO ECR ROOM
D23T(R)	SERVICE SCALE/UPC PRINTER (TOLEDO)
D25	312W 4'-0" AB FL FOR AUTOMATIC SLICER
D26	504W 4'-0" AB FL FOR MANUAL SLICER
D26(R)	MANUAL SLICER
D60DE	TWO 208V, 48AMP, 3PH CIRCUITS REQUIRED FOR OPEN DUAL RACK FRYER, MOUNT J.B. 2'-0" AB. FL., TWO SHUNT TRIP CIRCUIT BREAKERS REQUIRED.
D77V	1550W FOR RICE COOKER (VENDOR SUPPLIED)
D115E	2000W (NON-CONTINUOUS) DEDICATED 20A CIRCUIT FOR ENERGY EFFICIENT WRAPPER (TABLE TOP). MOUNT RCP[illegible] FL.
D195-4	208V, 13.8AMP, 1PH FOR SOLID BACK HOT HOLDING CABINET
D262SC13	208V, 13.4A, NEMA L14-20R FOR 13 PAN QUICK CHILLER WITH TOUCHSCREEN
D299TV-48	120V, 180W, 1PH, FOR 48" DIGITAL MONITOR FOR DELI MENU BOARD
DAGD8HE	120V, 96W FOR FANS, 65W FOR LIGHTS ON 8FT GLASS DOOR DAIRY CASE. MOUNT J.B. 1'-6" AB FL
DAGD12HE	120V, 132W FOR FANS, 95W FOR LIGHTS ON 12FT GLASS DOOR DAIRY CASE. MOUNT J.B. 1'-6" AB FL
DCFMD4H	120V, 8W FOR FANS, 27W FOR LED LIGHTS FOR 4' MDLP SELF SERVICE IN LINE COLD FOOD CASE
DCKSO6AT	208V, 1PH, 3037W FOR HEAT LAMP, 208V, 1PH, 2122W FOR DROP-IN WARMER, 208V, [illegible] FOR HEATED DRAWERS
DHFMD4H	208V, 17AMP, 1PH FOR 4' SELF SERVICE MULTI DECK HOT CASE. L14-30P NEMA PLUG.
DMDLR6HC	120V, 24W, FOR FANS, 31W, FOR LED LIGHTS, FOR 6' FRESH SLICED MULTI DECK CASE (REMOTE)
DMHF4AM(R)	120V 1PH 16AMPS FOR 4' MOBILE HOT FOOD
DS4HE	10W FOR FANS, 45W FOR AMB FANS, 400W A/S HTRS, 118W FOR LIGHTS
DS12HE(R)	30W FOR FANS, 135W FOR AMB FANS, 1200W A/S HTRS, 257W FOR LIGHTS
E38AS	120V 500W DEDICATED CIRCUIT FOR POS EQUIPMENT FOR SCO ATTENDANT STATION
E38TP	375W FOR THERMAL PRINTER
E38TS	18W FOR TOUCHSCREEN POS (FOR OEM MOUNT)
G27BSC(R)	984W FOR 2 DOOR REFRIG. PET FOOD MERCH. (SELF CONT.)
G27BSCF(R)	360W FOR 1 DOOR FROZEN PET FOOD MERCH. (SELF CONT.)
G85BSC(R)	CHECKSTAND REFRIGERATED MERCHANDISER
G85SC(R)	CHECKSTAND REFRIGERATED MERCHANDISER
G101	1500W FOR NCIM SAMPLING AREA. PROVIDE OUTLET ON SEPARATE CIRCUIT AT BASE OF ADJACENT CASE, FIXTURE, OR COLUMN.
GE1	[illegible]V/60HZ 80W 7'-[illegible]" AB FL FOR FLY ZAPPER. MOUNT SWITCH 5'-6" AB FL
GE1(R)	115V/60HZ 80W [illegible] AB FL FOR FLY ZAPPER. MOUNT SWITCH 5'-6" AB FL
GE1H	115V 30W, 5'-6" AB FL FOR FLY TRAPPER
GE1S	15W [illegible] SCONCE FLY TRAPPER (MOUNT @ 6' AFF TO BOTTOM)
GE38	120V 500W FOR REGISTER (DEDICATED CKT)
GE15[illegible]	COIN COUNTER (VENDOR SUPPLY)
GE156	120V 250W [illegible] FED FROM RACEWAY FOR EFT PIN PAD & CREDIT CARD READER
GE215L-20[illegible]	208V 3PH 32A [illegible] BALER, ELECTRICAL CONTRACTOR TO MAKE CONNECTION
GGDLT8HI(R)	8' NARROW GLASS DOOR LOW TEMP GROCERY (3 DOORS)
GGDLT12HI(R)	(5DR L[illegible]-- 110W FOR FANS, 378W FOR LIGHTS, 4750W FOR ELECTRIC DEFROST, 300W FOR DRAIN HEATER(ON-DURING DEFROST), 699W FOR FRAME & DOORS ANIT-SWEATS ON 12' GLASS DOOR (LOW TEMP) CASE
[illegible]DNLT12HI(R)	326W FOR FANS, 455W FOR A.S. HTRS, 108W FOR LIGHTS, 3500W (208V 1PH) FOR ELEC DEF. (TO PANEL FOR DEF WIRING) ON 12' NARROW GLASS DOOR LOW-TEMP GROCERY CASE
G[illegible](R)	32W FOR 4' OTC LIGHT VALANCE
GM[illegible](R)	32W FOR 4' OTC LIGHT VALANCE
GM7B[illegible](R)	32W FOR 4' BABY DEPARTMENT LIGHT VALANCE (STARTER)
GM7M-4	120V, 82.3W, FOR 4 FT KPNR/OTC LIGHT VALANCE
GM7M-4S	120V, 82.3W, FOR 4 FT KPNR/OTC LIGHT VALANCE (STARTER)
GM17S-4	120V, 65W, FOR 4 FT KPNR LIGHTED SHELVING SECTION
GM20LM	120V, 38.8W, FOR LOW PROFILE KPNR/OTC ENDCAP
HDR2	208V, 1400W FOR DYSON HAND DRYER
M32	120V 1PH 6.6AMP 3'-5" AB FL FOR MANUAL CARRIAGE MEAT SLICER
MGD8HE	120V, 96W FOR FANS, 65W FOR LIGHTS ON 8FT GLASS DOOR MEAT CASE. MOUNT J.B. 1'-6" AB FL
MGD12HE	120V, 132W FOR FANS, 95W FOR LIGHTS ON 12FT GLASS DOOR MEAT CASE. MOUNT J.B. 1'-6" AB FL
MRAD	120V, 28W, 1PH, FOR RAD CHARGING STATION.
P5DGR8HX	50W FOR FANS, 118W FOR LIGHTS ON 8' PRODUCE WALL CASE. MOUNT J.B. 1'-6" AB FL
P5DGR12HX	75W FOR FANS, 170W FOR LIGHTS ON MULTI-DK PRODUCE WALL CASE MOUNT J.B. 1'-6" AB FL
P54	100W FOR PRODUCE MISTING CONTROL/TIMER. DUPLEX OUTLET MOUNTED ABOVE CASE
P203SC2	876W FOR 2 DOOR PRODUCE STORAGE REFRIGERATOR (SELF-CONTAINED)
PGD8HE	120V, 96W FOR FANS, 65W FOR LIGHTS ON 8FT GLASS DOOR PRODUCE CASE. MOUNT J.B. 1'-6" AB FL
PGD12HE	120V, 132W FOR FANS, 95W FOR LIGHTS ON 12FT GLASS DOOR PRODUCE CASE. MOUNT J.B. 1'-6" AB FL
PL24B-2	120V, 529W, CORDINATE RECEPTACLE LOCATION WITH MANUFACTURE OF WATER COOLER USED (REQD. LOCKED ON DEVICE @PANEL
PMSC6-2_CM	120V, 19.20AMP, 1PH (30 AMP CIRCUIT REQUIRED) FOR 6' BERRY CASE (SELF CONTAINED) UNIT COMES WITH 9' CORD AND L5-30P NEMA PLUG.
RBU	120V, 15A CIRCUIT FOR UNDERCOUNTER REFRIGERATOR (BIOMEDICAL) REQUIRED TO BE ON EMERGENCY CIRCUIT.
RPC	315W FOR RX EASYFILL PRN PC & 17" LCD
RPC(R)	315W FOR RX EASYFILL PRN PC & 17" LCD
RTP(R)	RX THERMAL PRINTER (BACKTAGS & VIAL LABELS)
T4SC-2	360W, 120V, 1PH, FOR 4' TABLE W/REF. BASE (SELF CONT.)
T6D	PROVIDE POWER FOR TABLE TOP EQUIPMENT AS SHOWN ON LEGEND & 800W. CONVENIENCE OUTLETS, 4'-0" AB.FL. AS REQUIRED BY CODE
T6D(R)	PROVIDE POWER FOR TABLE TOP EQUIPMENT AS SHOWN ON LEGEND & 800W. CONVENIENCE OUTLETS, 4'-0" AB.FL. AS REQUIRED BY CODE
T6S(R)	6' OPEN TABLE W/UNDERSHELF
T6SC	1265W FOR 6' TABLE W/REF BASE (SELF- CONT.)
T8D(R)	PROVIDE POWER FOR TABLE TOP EQUIPMENT AS SHOWN ON LEGEND & 800W. CONVENIENCE OUTLETS, 4'-0" AB.FL. AS REQUIRED BY CODE

LOW VOLTAGE EQUIPMENT REQUIREMENTS

NAME	LOW VOLTAGE REQUIREMENTS
ACLR4C-T	2 DATA JACKS
ACRL4C-T	2 DATA JACKS
ALS9665-FS(R)	3 DATA, 1 VOICE JACK
AUAS	3 DATA, 1 VOICE JACK
D23T	1 DATA JACK
D23T(R)	1 DATA JACK
D299TV-48	ETHERNET JACK
E38AS	3 DATA, 1 VOICE JACK
GE38	3 DATA, 1 VOICE JACK
GE156	DATA JACK
RPC	1 DATA JACK
RPC(R)	1 DATA JACK

LIGHTING FIXTURE SCHEDULE

COUNT	MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MOUNTING	FIXTURE USAGE
1	C1	RECESSED 2'X4' W/ (3) T8 LAMPS & (1) INSTANT START BALLAST, PRISMATIC LENS W/ NO REVEAL, GRID CEILING.	COOPER (METALUX)	2GR8-332A-UNV-QHE3X32ISNSC	CEILING GRID	PHARMACY
12	C8	RECESSED 1'X4' W/ (2) T8 LAMPS & (1) BALLAST, PRISMATIC LENS W/ NO REVEAL, GRID CEILING.	COOPER (METALUX)	GR8-232A-UNV-QHE2X32ISNSC DF-14-W (STAND ALONE DRY WALL FRAMING KIT) DFR-E-14-W (END OF ROW DRY WALL FRAMING KIT) DFR-R-14-W (MIDDLE OF ROW DRY WALL FRAMING KIT)		

MECHANICAL EQUIPMENT SCHEDULE

MARK	VOLTAGE	PHASES	HP	KW	FLA	MCA	MOCP	DISCONNECT	BRANCH CIRCUIT	NOTES
CU-1	208	1				18	25	30/2/NF/3R	2#10+#10G-3/4"C.	1,2
EF-4	120	1			4		REUSE EXISTING	MOTOR RATED SWITCH	REUSE EXISTING	
EF-5	120	1			2.0		REUSE EXISTING	MOTOR RATED SWITCH	REUSE EXISTING	
EF-6	120	1			1		REUSE EXISTING	MOTOR RATED SWITCH	REUSE EXISTING	
FCU-1	120	1								2

MECHANICAL EQUIPMENT SCHEDULE NOTES

1. PROVIDE RECEPTACLE (WP, GFCI) FOR MAINTENANCE PER NEC. CIRCUIT AS INDICATED ON DRAWINGS.
2. FCU IS FED FROM THE RESPECTIVE CU. PROVIDE 5#12+#12G - 1"C. BETWEEN THE UNITS. SEE MECHANICAL DRAWINGS FOR LOCATION OF FCU'S.

MECHANICAL EQUIPMENT SCHEDULE GENERAL NOTES

A. VERIFY ELECTRICAL REQUIREMENTS OF PURCHASED UNITS PRIOR TO ROUGH-IN.
B. PROVIDE DISCONNECT SWITCH INDICATED.
C. EXTERIOR FLEXIBLE CONDUIT SHALL BE "SEALTITE" OR EQUAL.

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REVISIONS

SHEET TITLE
ELECTRICAL SYMBOLS AND GENERAL NOTES

DATE
02-12-20

PROJECT NUMBER
20-107

SHEET NUMBER
E0.1