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Electric Luminaire Schedule

Type	Description	Manufacturer / Series	Housing / Mounting	Material	Lamp Qty	Lamp Type	Ballast / Driver Qty	Ballast / Driver	Finish	Comments	Fixture Load	Voltage
4' TRACK	TRACK LIGHTING	COOPER (HALO) L651(MB)(P)(SL) - (BLACK)(WHITE)(SILVER)	SUSPENDED, COORDINATE TRACK HEIGHT WITH FIXTURE.		0	0W NONE	0	ELECTRONIC	MATCH TRACK HEAD COLOR		0 VA	120 V
8' TRACK	TRACK LIGHTING	COOPER (HALO) L652(MB)(P)(SL) - (BLACK)(WHITE)(SILVER)	SUSPENDED, COORDINATE TRACK HEIGHT WITH FIXTURE.		0	0W NONE	0	ELECTRONIC	MATCH TRACK HEAD COLOR		0 VA	120 V
12' TRACK	TRACK LIGHTING	COOPER (HALO) L653(MB)(P)(SL) - (BLACK)(WHITE)(SILVER)	SUSPENDED, COORDINATE TRACK HEIGHT WITH FIXTURE.		0	0W NONE	0	ELECTRONIC	MATCH TRACK HEAD COLOR		0 VA	120 V
AA1	LINEAR FLUORESCENT	COOPER (METALUX) 8TICF-232-UNV-QHE4X32ISNSC	SUSPENDED 1'4"-0" SUSPENDED AROUND PERIMETER		4	28W F028/835/XP/S S/ECO	0	ELECTRONIC	WHITE ENAMEL FINISH	WALL WASH	112 VA	120 V
B10	FLUORESCENT HIGHBAY UPLIGHT	COOPER (METALUX) HBI-632-W-UNV-QHE4-2X32ISH-4LBI B2LBOB-UPL-U	SUSPENDED 16'-0"		6	14TB/48-3500 IF 10/1 DIM		ELECTRONIC		TUBE GUARDS ARE REQUIRED ABOVE UNWRAPPED FOOD (i.e. PRODUCE)		120 V
B11	FLUORESCENT HIGHBAY UPLIGHT	COOPER (METALUX) HBI-432-W-UNV-QHE2X32ISHSC-IBO B-UPL-U	SUSPENDED 16'-0"		4	14TB/48-3500 IF 10/1 DIM		ELECTRONIC		TUBE GUARDS ARE REQUIRED ABOVE UNWRAPPED FOOD (i.e. PRODUCE)	128 VA	120 V
C1	PRISMATIC	COOPER (METALUX) 2GRB-332A-UNV-QHE3X32ISNSC	GRID MOUNTED		3	28W F028/835/XP/S S/ECO	0	ELECTRONIC		PHARMACY AREA, FOOD PREPARATION AREAS, DATA CENTER, CONFERENCE ROOM, LUNCH ROOM, LOCKER AREA (PRISMATIC)	72 VA	120 V
CL12	CURRENT LIMITER	COOPER (METALUX) LC901CB300									300 VA	120 V
CL44	CURRENT LIMITER	COOPER (METALUX) LC901CB960									960 VA	120 V
CL60	CURRENT LIMITER	COOPER (METALUX) LC901CB1200									1200 VA	120 V
D	LINEAR FLUORESCENT	COOPER (METALUX) 8TSSF-232-UNV-QHE4X32ISNSC	SUSPENDED 12'6" OR JOIST BOTTOM		4	28W F028/835/XP/S S/ECO	0	ELECTRONIC		STORAGE AREA, BACK ROOM, DOCK AREA	95 VA	120 V
K3(4')	LINEAR FLUORESCENT	COOPER (CORELITE) NB-SW-2T8-1C-UNV-AC120-ST-XX-D L1 CARDINAL SILVER	SUSPENDED 7'-6"		2	28W F028/835/XP/S S/ECO	0	ELECTRONIC		REFRIGERATED FRESH MEAT AND DELI ISLAND CASES	64 VA	120 V
MP	TRACK LIGHTING	COOPER (HALO) L1973 (MB)(P)(SL) - (BLACK)(WHITE)(SILVER)	SUSPENDED, COORDINATE TRACK HEIGHT WITH FIXTURE.		0	0W NONE	0	ELECTRONIC	MATCH TRACK HEAD COLOR		0 VA	120 V
P10	DECORATIVE 24" SCONCE FOR ROUNDYS	COOPER (HALO) H10MEAH19LRG - Irish Coffee	SUSPENDED		1	16.8 LED INCLUDED		ELECTRONIC			18 VA	120 V
P29	LED PENDANT	BASELITE UR14/94/INC-BLC	PENDANT		1	PHILIPS LED A-SHAPE 16A21/PER/82 7/P/E26/DIM 6/1FB	0	ELECTRONIC		STEEL	16 VA	120 V
P31	LED PENDANT	BASELITE COS16/54/INC-BLK	PENDANT	STUCCO FINISH	1	PHILIPS LED A-SHAPE 16A21/PER/82 7/P/E26/DIM 6/1FB	0	ELECTRONIC		STEEL	7 VA	120 V
P32	LED PENDANT	BASELITE D627/94/INC-BLK	PENDANT	ANODIZED ALUMINUM	1	PHILIPS LED A-SHAPE 16A21/PER/82 7/P/E26/DIM 6/1FB	0	ELECTRONIC		STEEL	16 VA	120 V
PF	POWER END FEED	COOPER (METALUX POWER END FEED LS/7									0 VA	120 V
TR24	TRACK HEAD	COOPER (HALO) L8024803XX	TRACK, REFER TO TRACK LIGHTING HEIGHT NOTES		1	49W LED INCLUDED	0	ELECTRONIC			49 VA	120 V
TR29	TRACK HEAD	COOPER (HALO) L80825NF903XX	TRACK, REFER TO TRACK LIGHTING HEIGHT NOTES		1	38W LED INCLUDED	0	ELECTRONIC			38 VA	120 V
TR30	TRACK HEAD	COOPER (HALO) L80815NF903XX	TRACK, REFER TO TRACK LIGHTING HEIGHT NOTES		1	24W LED INCLUDED	0	ELECTRONIC			24 VA	120 V

ELECTRIC LEGEND

SYMBOL	DESCRIPTION
LIGHTING AND LIGHTING CONTROLS	
	LUMINAIRE (REFER TO THE LUMINAIRE SCHEDULE): NOTE THAT OTHER SHAPES MAY ALSO BE USED TO REPRESENT LUMINAIRES
	SHADED LUMINAIRES DENOTE THOSE CONNECTED TO EMERGENCY OR STANDBY POWER AS APPLICABLE (UNSWITCHED LUMINAIRES ARE EGRESS LIGHTS AND/OR NIGHT-LIGHTS THAT OPERATE 24/7)
	TRACK LIGHTING IN LENGTH SHOWN AND WITH NUMBER OF LUMINAIRE HEADS AS INDICATED PROVIDE ALL REQUIRED ACCESSORIES (FITTINGS, END CAPS, POWER FEEDS, ETC.)
A a NL EL	A = LUMINAIRE TYPE (REFER TO THE LUMINAIRE SCHEDULE), NL = NIGHT-LIGHT (UNSWITCHED), a = SWITCHING DESIGNATION, EL = EGRESS LUMINAIRE (UNSWITCHED OR AUTO-ON DURING UTILITY OUTAGE)
RECEPTACLES AND MISCELLANEOUS OUTLETS	
	SINGLE ("SIMPLEX"), DUPLEX, AND DOUBLE DUPLEX ("QUAD") RECEPTACLE RESPECTIVELY
	SPECIAL PURPOSE RECEPTACLE
	CEILING DUPLEX RECEPTACLE WITH ADJACENT REEL-MOUNTED DROP CORD.
H C T 42" W SW L	RECEPTACLE ATTRIBUTES 42" = MOUNT RECEPTACLE AT THIS HEIGHT ABOVE GRADE / FINISHED FLOOR C = INSTALL ABOVE COUNTER AND BACKSPLASH H = INSTALL RECEPTACLE HORIZONTALLY L = LIT (PROVIDE ILLUMINATED FACE OR INDICATOR LIGHT TO INDICATE THERE IS POWER TO RECEPTACLE) SW = SPLIT WIRED T = TAMPER-RESISTANT W = WEATHER PROOF WHILE IN USE COVER AND WEATHER RESISTANT RECEPTACLE
MISCELLANEOUS	
	INDICATES DIRECT CONNECTION TO EQUIPMENT
MS MSR	MOTOR RATED TOGGLE SWITCH, MANUAL STARTER WITH PILOT LIGHT, AND MANUAL STARTER WITH PILOT LIGHT WITH EXTERNAL RELAY FOR CONTROL OR MONITORING RESPECTIVELY - ALL MAY BE KEYED "K"
FRONT	ELECTRICAL SWITCHBOARD OR SWITCHGEAR (DIMENSIONS MAY VARY)
	ELECTRICAL PANELBOARD OR DISTRIBUTION BOARD (DIMENSIONS MAY VARY - FLUSH OR SURFACE MOUNTED AS INDICATED)
PAD A POLE	OIL FILLED TRANSFORMER
SINGLE LINE DIAGRAM	
	GROUNDING ELECTRODE PER NFPA 70 ARTICLE 250 MINIMUM
	ELECTRICAL PANELBOARD OR DISTRIBUTION BOARD
	ELECTRICAL SWITCHBOARD OR SWITCHGEAR
	AUTOMATIC TRANSFER SWITCH
	SURGE PROTECTIVE DEVICE

ELECTRIC LEGEND

SYMBOL	DESCRIPTION
WIRE / CABLE / RACEWAY	
LPA-1,3	BRANCH CIRCUIT HOME RUN WITH PANEL NAME AND CIRCUIT NUMBER(S)
	CABLING / RACEWAY INSTALLED CONCEALED IN WALLS OR ABOVE CEILING
	CABLING / RACEWAY INSTALLED BELOW FLOOR OR GRADE
	CABLE TRAY
	JUNCTION BOX ABOVE ACCESSIBLE CEILING JUNCTION BOX AT OVERHEAD STRUCTURE IN AREAS WITH NO CEILING
	SERVICE POLE - POWER AND TECHNOLOGY WHERE APPLICABLE.
UP DN	CONDUIT UP OR DOWN

ABBREVIATIONS

		IG	ISOLATED GROUND
(R)	RELOCATE FIXTURE, EQUIPMENT OR DEVICE	LR	LEGALLY REQUIRED STANDBY
42"	DISTANCE ABOVE FINISHED FLOOR / GRADE / PAVEMENT	LI	LONG - INSTANTANEOUS
AF	AMP FRAME OF FUSED SWITCH OR CIRCUIT BREAKER	LSI	LONG - SHORT - INSTANTANEOUS
		LSIG	LONG - SHORT - INSTANTANEOUS - GROUND FAULT
AFCI	ARC-FAULT CIRCUIT INTERRUPTER		
AIC	SHORT CIRCUIT AMPS INTRRUPTING RATING	MCB	MAIN CIRCUIT BREAKER
AT	AMP TRIP OF FUSED SWITCH OR CIRCUIT BREAKER	MFR	MANUFACTURER
		MLO	MAIN LUGS ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MTS	MANUAL TRANSFER SWITCH
		MW	MICROWAVE OVEN
BAS	BUILDING AUTOMATION SYSTEM		
		NIC	NOT IN CONTRACT (SHOWN FOR REFERENCE ONLY)
C.T.C.	WORK UNDER DIVISION 27 OR 28 AS APPLICABLE	NTS	NOT TO SCALE
C/B	CIRCUIT BREAKER		
CH	COUNTER HEIGHT OR SPECIAL HEIGHT DEVICE	OFE	OWNER-FURNISHED EQUIPMENT - INSTALLED AND WIRED BY E.C.
DW	DISHWASHER		
		OS	OPTIONAL STANDBY
E	EMERGENCY		
E.C.	WORK UNDER DIVISION 26	P.C.	WORK UNDER DIVISION 22
EMS	ENERGY MANAGEMENT SYSTEM		
EPO	EMERGENCY POWER OFF	S.C.	WORK UNDER DIVISION 21
ER	EQUIPMENT ROOM	SPD	SURGE PROTECTIVE DEVICE
ERM	ENERGY REDUCTION MAINTENANCE SWITCH	ST	SHUNT TRIP
ETR	EXISTING TO REMAIN		
EWC	ELECTRIC WATER COOLER	TAAC	TO ABOVE ACCESSIBLE CEILING
EX.	EXISTING	TR	TAMPER RESISTANT
		TTB	TELEPHONE TERMINAL BOARD
FBO	FURNISHED BY OTHERS - INSTALLED AND WIRED BY E.C.	TYP	TYPICAL
FIBO	FURNISHED AND INSTALLED BY OTHERS - WIRED BY E.C.	UCR	UNDER COUNTER REFRIGERATOR
		UL	UNDERWRITER'S LABORATORY
FP	RECEPTACLE TO BE USED FOR A FLAT PANEL DISPLAY.	U.L.S.E.	LISTED FOR SERVICE ENTRANCE
		UNO	UNLESS NOTED OR INDICATED OTHERWISE ON DRAWINGS OR IN SPECIFICATIONS
FWE	FURNISHED WITH EQUIPMENT BY OTHERS - INSTALLED AND WIRED BY E.C.		
GD	GARBAGE DISPOSAL	VFD / VSD	VARIABLE FREQUENCY / SPEED DRIVE
GFEP	GROUND FAULT EQUIPMENT PROTECTION	VIF	VERIFY IN FIELD
GFI / GFCI	GROUND FAULT CIRCUIT INTERRUPTER DEVICE	VM	VENDING MACHINE
GND	GROUND	VP	VANDAL PROOF
H.C.	WORK UNDER DIVISION 23	WG	WIRE GUARD
H.O.A.	"HAND - OFF - AUTO" SWITCH	WR	WEATHER RESISTANT

PLAN-VIEW AND GRAPHIC LINE TYPES

WORK SHOWN BOLD-CONTINUOUS INDICATES NEW WORK (UNLESS OTHERWISE INDICATED)
WORK SHOWN FADED INDICATES EXISTING WORK TO REMAIN OR NEW WORK BY OTHERS AS APPLICABLE (UNLESS OTHERWISE INDICATED)
WORK SHOWN BOLD-DASHED INDICATES SELECTIVE DEMOLITION WORK (UNLESS OTHERWISE INDICATED)

ELECTRIC DESIGN CRITERIA

APPLICABLE BUILDING CODES

2017 OHIO BUILDING CODE
2017 NFPA 70 / NATIONAL ELECTRICAL CODE
2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

TESTING/COMMISSIONING FOR LIGHTING CONTROLS

LIGHTING CONTROL DEVICES AND SYSTEMS SHALL BE TESTED TO ENSURE THE HARDWARE AND SOFTWARE IS CALIBRATED, PROGRAMMED, AND IN PROPER WORKING ORDER. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED INSTALLATION CERTIFICATES AND SHALL PROVIDE MANUALS FOR LIGHTING CONTROL DEVICES TO OWNER PRIOR TO PROJECT CLOSE-OUT. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING WITH APPROPRIATE PARTIES TO ARRANGE FOR TESTING/COMMISSIONING OF THE LIGHTING CONTROL SYSTEMS AND SHALL BE RESPONSIBLE FOR ENSURING ALL REQUIRED FUNCTIONAL TESTING FORMS ARE COMPLETED AND SUBMITTED TO THE OWNER AND LOCAL AHJ PRIOR TO PROJECT CLOSE-OUT.

GENERAL ELECTRICAL PROJECT NOTES

A. PROVIDE ALL JUNCTION BOXES, CONDUIT, WIRE, INSTALLATIONS, TERMINATIONS, ETC. AS NECESSARY FOR COMPLETE OPERATIONAL INSTALLATION OF KROGER-FURNISHED MATERIALS.
B. ELECTRICAL CONTRACTOR RESPONSIBILITIES FOR KROGER SUPPLIED MATERIALS SHALL BE AS FOLLOWS.
   a. RECEIVE, UNLOAD, STORE AND PROTECT PRODUCT ON SITE.
   b. INSPECT PRODUCTS UPON RECEIPT FOR SHORTAGES, DAMAGES OR DEFECTS AND NOTIFY SUPPLIER WITHIN 24 HOURS.
   c. NOTIFY SUPPLIER WITHIN 20 DAYS OF RECEIPT OF ANY HIDDEN DAMAGES FOR PRODUCTS REVIEWED.
C. NEATLY INSTALL ALL CONDUIT, CABLES, ETC. PARALLEL AND PERPENDICULAR TO BUILDING STEEL.
D. PROVIDE SWEEP BENDS, INSULATED THROAT FITTINGS (OR BUSHINGS) AND 200# DRAG LINE (PULL STRING) IN ALL EMPTY CONDUITS. "OVERHEAD JOIST SPACE" SHALL BE TAKEN TO MEAN AT THE BOTTOM CHORD OF JOISTS OF THE HIGH ROOF STRUCTURE, EVEN IF CONDUIT ORIGINATED IN AN AREA WITH A CEILING OR A LOWER ROOF STRUCTURE. INSTALL ALL CONDUITS CONCEALED WHEREVER POSSIBLE. FIELD COORDINATE ALL ROUTING AND TERMINATION DETAILS IN ADVANCE.
E. ALL ELECTRICAL DEVICES, OUTLETS, JUNCTION BOXES, ETC. THAT ARE SHOWN AGAINST A WALL SHALL BE FLUSH MOUNTED IN THE WALL (i.e. RECESSED IN WALL SO OPENING IS FLUSH WITH FINISHED WALL SURFACE). REFER TO EQUIPMENT SCHEDULE FOR MOUNTING HEIGHTS AND ADDITIONAL INFORMATION. ALSO SEE DETAILS ON SHEET E5-SERIES WHERE APPLICABLE.
F. INSTALL ELECTRICAL OUTLETS FOR REFRIGERATION ISLAND CASES IN A STRAIGHT LINE ALIGNED WITH THE HUB DRAWING. COORDINATE WITH PLUMBING DIMENSIONS SIGNED PLAN.
G. PROVIDE 10 FEET OF FLEXIBLE CONDUIT FOR REFRIGERATED CASES SERVED FROM WALL JUNCTION BOXES AND 6 FEET FOR ISLAND REFRIGERATED CASES FOR CONNECTION TO CASES BY THE PHASE II EQUIPMENT CONTRACTOR.
H. ALL WALL MOUNTED OUTLETS SERVING REFRIGERATED CASES WITH RETURN AIR PLENUM ABOVE SHALL BE ACCESSIBLE (WITH ALL WIRING PLENUM RATED AS/IF APPLICABLE).
I. PROVIDE MINIMUM #12AWG/THWN BRANCH CIRCUIT WIRING.
J. REGARDLESS OF WHERE JB's ARE SHOWN ON DRAWINGS, FEED CASES FROM WALL WHEREVER CASES ARE LOCATED AGAINST A WALL. INSTALL WALL OUTLET/JUNCTION BOXES FOR SUCH CASES SO THAT BOTTOMS OF BOXES ARE TWO (2) INCHES ABOVE TOP OF RESPECTIVE CASE (FIELD VERIFY).
K. NEW WORK SHOWN ON DRAWINGS IS SHOWN TO INDICATE MINIMUM REQUIREMENTS FOR THE NEW EQUIPMENT LAYOUT. EXISTING CONDUIT/OUTLET WORK MAY BE RE-USED WHEREVER POSSIBLE, SUBJECT TO BEING EQUIVALENT TO THE NEW WORK REQUIREMENTS SHOWN. REMOVE IF NEW STORE.
L. SAWCUT AND NEATLY PATCH (IN-KIND) EXISTING FLOOR SLAB AS REQUIRED FOR NEW UNDERFLOOR DUCT SYSTEM, ISLAND RELATED WORK, CHECKOUT AREA RACEWAYS, NEW GONDOLA/SHELVING RUNS, ETC. REMOVE IF NEW STORE.

2" REFERENCE LINE

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12/10/19

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ELECTRICAL ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES

E0.1

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