



The Kroger Co. Track/Current Limiter Matrix						
Continuous Length (LF = Linear Feet)	EATON - Single Circuit Track			EATON - Two Circuit Track (for CA - Title 24 compliance ONLY)		
	Type	Catalog Number	Wattage	Type	Catalog Number	Wattage
2 LF Track	CL10	LC901CB120	120	CL20	LC941CB120CB120	240
4 LF Track	CL10	LC901CB120	120	CL20	LC941CB120CB120	240
8 LF Track	CL11	LC901CB300	300	CL20	LC941CB120CB120	240
12 LF Track	CL11	LC901CB300	300	CL20	LC941CB120CB120	240
16 LF Track	CL12	LC901CB600	600	CL21	LC941CB300CB300	600
20 LF Track	CL12	LC901CB600	600	CL21	LC941CB300CB300	600
24 LF Track	CL12	LC901CB600	600	CL21	LC941CB300CB300	600
28 LF Track	CL13	LC901CB960	960	CL22	LC941CB600CB300	900
32 LF Track	CL13	LC901CB960	960	CL22	LC941CB600CB300	900
36 LF Track	CL13	LC901CB960	960	CL22	LC941CB600CB300	900
40 LF Track	CL13	LC901CB960	960	CL22	LC941CB600CB300	900
44 LF Track	CL13	LC901CB960	960	CL22	LC941CB600CB300	900
48 LF Track	CL14	LC901CB1200	1,200	CL23	LC941CB600CB600	1,200
52 LF Track	CL14	LC901CB1200	1,200	CL23	LC941CB600CB600	1,200
56 LF Track	CL14	LC901CB1200	1,200	CL23	LC941CB600CB600	1,200
60 LF Track	CL14	LC901CB1200	1,200	CL23	LC941CB600CB600	1,200
64 LF Track (60 LF Track, Current Limiter, 4 LF Track)	CL15	LC903CB1200CB120	1,320	CL24	LC943CB1200CB120	1,320
68 LF Track (60 LF Track, Current Limiter, 8 LF Track)	CL15	LC903CB1200CB120	1,320	CL24	LC943CB1200CB120	1,320
72 LF Track (60 LF Track, Current Limiter, 12 LF Track)	CL16	LC903CB1200CB300	1,500	CL25	LC943CB1200CB300	1,500
76 LF Track (60 LF Track, Current Limiter, 16 LF Track)	CL16	LC903CB1200CB300	1,500	CL25	LC943CB1200CB300	1,500
80 LF Track (60 LF Track, Current Limiter, 20 LF Track)	CL17	LC903CB1200CB600	1,800	CL26	LC943CB1200CB600	1,800

LIMITER IS INSTALLED ON EACH PIECE OF TRACK. IF YOU EXCEED THE WATTAGE ON A PIECE OF TRACK, THE CORRECT CURRENT LIMITER SHOULD BE SELECTED.

12/22/2016

NOTES: (MARKETPLACE ISLAND)

- THE EXHAUST HOODS TYPICALLY ARE SUPPLIED WITH THE LIGHT FIXTURE INSTALLED. KROGER TO SUPPLY (1) 18 WATT LED FOR EACH LIGHT FIXTURE INSTALLED IN HOOD.
- ALL LINEAR LAMPS TO BE 3500K LAMPS, UNLESS NOTED OTHERWISE.
- LED FIXTURES IN BACKROOM AREAS TO BE INSTALLED 16'-0" ABOVE FLOOR OR AT THE BOTTOM OF STEEL.
- LED FIXTURES IN DOCK AREA TO BE INSTALLED AT THE BOTTOM OF STEEL.
- ANY DECOR IS SHOWN AS REFERENCE ONLY. REFER TO DECOR PLANS FOR FINAL LOCATION OF GRAPHICS.
- SELF SERVICE AND SERVICE CASES THAT FALL UNDER A SOFFIT ARE NOT DEPICTED ON THIS DRAWING. WHEN THESE CASES HAVE INTERNAL LIGHTS, THEY SHALL BE CIRCUITED PER CROSS HATCHED CASES ON PLAN.
- SPECIAL LIGHTING CONDITIONS --- PRODUCE/FLORAL DEP'T'S: STORE AMBIENT LIGHTING REDUCED BY OVER HALF, AND TRACK FIXTURES ADDED AS SHOWN. PRODUCE LIGHTING TRACKS ARE TO BE POSITIONED THROUGHOUT THE DEPARTMENT TO ACCOMMODATE THE MOBILITY OF PRODUCE DEPARTMENT FIXTURES. USE TRACK COMBINATIONS SO ELECTRICAL CIRCUITS COMPLY WITH 2014 NEC 220.43 (B) --- USE WITH CURRENT LIMITERS. USE TRACK COMBINATIONS SO ELECTRICAL CIRCUITS DO NOT EXCEED 1920 WATTS (FOR 20 AMP CIRCUIT), WHEN INCLUDING CURRENT LIMITERS. REFER TO TRACK/CURRENT LIMITER MATRIX FOR REFERENCE ON SITEFOLIO. CURRENT LIMITER SHOWN ON EVERY PIECE OF TRACK.

THE USE OF TRACK LIGHTING IS INTENDED TO HIGHLIGHT INDIVIDUAL AREAS, AND NOT INTENDED TO PROVIDE UNIFORM LIGHT LEVELS ON DISPLAYS. USING SOME ADJUSTMENT, TRACK SHOULD PROVIDE COVERAGE TO CASES AND BE AESTHETICALLY PLEASING. NO TRACK SHOULD EXTEND OVER THE SALAD OR OLIVE BAR, SINCE THE LIGHTS CREATE GLARE ON THE SNEEZE GUARD.

MOUNT BOTTOM OF TRACK 11'-9" AFF.

OTHER TRACK LIGHTING: TRACKS NOT RELATED TO DECOR TO BE MOUNTED AT 11'-9" ABOVE FLOOR TO ALIGN WITH PRODUCE & FLORAL TRACK.

WALL WASH (NO GRAPHICS): AA1 & AA2 FIXTURES TO BE WITHIN 4'-0" OF WALL, PROVIDING ILLUMINATION ON WALL. WHERE THERE IS NO SPECIFIC WALL WASH FIXTURES, THE PERIMETER "B" TYPE FIXTURES TO BE CIRCUITED SIMILARLY. UN-LIGHTED WALLS CAN GIVE A DEPARTMENT A DARK APPEARANCE, WHICH CAN LEAD TO PHOTOCELL SET-UP THAT LEAVES THE AMBIENT LIGHTS ON LONGER THAN NECESSARY. ADDITIONALLY, WHERE THERE ARE LARGE EXPANSES OF WALLS WITHOUT SPECIFIC WALL WASH OR DECOR LIGHTING, THE PERIMETER AMBIENT LIGHTS TO BE WIRED, SO THEY CAN STAY ON FOR THE SAME PURPOSE.

ARTISAN BREAD: TRACK TO HIGHLIGHT OPEN FRESH PRODUCT ALONG CASELINE.

COSMETICS/OTC: DO NOT INDICATE TRACK LIGHTING IN THIS AREA. FIXTURES ARE BACKLIT WITH VALENCE AND SHELF LIGHTING.

APPAREL (DIP): USE TYPE "TR33" LED TRACKHEAD ON GRAPHICS AND DISPLAYS, MOUNTING HEIGHT 14'-0".

DRY AGED BEEF COOLER: USE TYPE "M14" BY THE WINDOW INSIDE THE COOLER.

MURRAY'S CHEESE: REFER TO MURRAY'S CHEESE LIGHTING ON THIS SHEET.

- PREP. AREAS, SERVICE AREAS, PHARMACY, ETC., SHALL HAVE CEILING LIGHT FIXTURES POSITIONED OVER ALL WORK SURFACES.
- NOT USED.
- "TR24" TRACK LIGHT FIXTURES ARE TO BE PLACED SO THAT ENTIRE LARGE DECOR ELEMENT IS COVERED WITH A WASH OF LIGHT. IF MULTIPLE HEADS ARE NEEDED TO LIGHT SIGN, USE A CONTINUOUS PIECE OF TRACK.
- TRACK LIGHT FIXTURES AND TRACKS FINISHES: TR33, TR32 & TR24 --- LIGHT FIXTURES TO BE ALUMINUM HAZE & TRACKS TO BE SILVER, IN BOTH OPEN CEILING STORES AND STORES WITH CEILING.
- TYPE "MB" TO BE LOCATED OVER GRINDER IN THE COOLER. CODE MAY VARY BUT REQUIRES AT LEAST 50 FC OVER WORK SURFACE OF GRINDER, SLICER AND SAWS, AND 10 FC THROUGHOUT. (IF THE GRINDER IS NOT LOCATED INSIDE THE COOLER, USE ONLY TYPE "M13" TO ACHIEVE LIGHT LEVEL IN THE COOLER). IF GRINDER IS IN PREP AREA, USE STANDARD 2x4 LIGHTS TO ACHIEVE LIGHTING LEVELS. FIXTURES OVER THIS EQUIPMENT SHOULD BE ON THE LIFE SAFETY.
- NO SURFACE MOUNTED ELECTRICAL CONDUITS PERMITTED TO BE EXPOSED IN MEAT OR PRODUCE PREP. AREA.
- MINIMIZE EXPOSED SURFACE MOUNTED ELECTRICAL CONDUITS LOCATED IN WALK-IN COOLER & FREEZER.
- MOTION SENSORS ARE TO BE INSTALLED ONLY ON FROZEN FOOD CASES THAT ARE IN AN AISLE. DO NOT INSTALL ON END CAPS OR CASES THAT ARE PERPENDICULAR TO THE END OF AN AISLE. FOR ASSISTANCE IN DETERMINING PROPER PLACEMENT OF MOTION SENSORS AND ALSO FOR CONTRACTORS FAMILIAR WITH THE INSTALLATION PROCESS CONTACT THE DIVISION ENERGY ENGINEER. REFER TO INSTALLATION INSTRUCTIONS DOCUMENT LOCATED ON SITEFOLIO.
- LIGHT FIXTURE TRACK FOR TR32 TO BE INSTALLED APPROXIMATELY 12" FROM FRONT EDGE OF SEAFOOD CASE., TO REDUCE GLARE ON THE GLASS OF THE OPEN SEAFOOD CASE. SEE SECTION "A-A" ON THIS SHEET.
- ACCENT LIGHT TYPICALLY RELATES TO MERCHANDISE OR DECOR. THE RELATIONSHIP NEEDS TO BE UNDERSTOOD. DIMENSIONS TO BE TAKEN FROM FIXED ELEMENTS (COLUMNS, WALLS, DROP PARTITION, ETC.).
- REFER TO FINAL SITE LIGHTING PHOTOMETRICS FOR WALLPACK TYPE AND LOCATION.
- CURRENT A & E STANDARDS CALLS FOR THE PHOTOLUMINESCENT EXIT SIGNS TO BE INDICATED ON THE LIFE SAFETY PLAN.
- NEED AFC OF LIGHTING TO CHARGE PHOTOLUMINESCENT EXIT SIGNS. PROVIDE OVERHEAD LIGHTS ON EMERGENCY CIRCUIT NEAR EXITS TO CHARGE THE EXIT SIGNS.

LIGHTING FIXTURE KEY:			
** Refer to Sitefolio Section 'Sitefolio/Files/Capital/Enterprise Sourcing/Direct Buy Owner Furnished Products Information/Lighting Interior_Fixtures/Lighting Master Fixture Schedule' for Fixture Manufacturer & Lamp Information **			
Type	Symbol	Mounting Height	Fixture Usage
Interior Light Fixtures			
AA1		Bottom of Joist, unless noted otherwise	Wall Wash
AA2		Bottom of Joist, unless noted otherwise	Wall Wash – where applicable.
B10		F&B – Suspended 16'-0"	Sales Area, Vestibule.
B11		F&B – Suspended 16'-0" or As Noted	Sales Area
C1		Ceiling Grid	Pharmacy, Counsel Rooms, Food Prep areas, Office Area.
C8		Drywall Ceiling / Ceiling Grid	Restrooms (Prismatic), Quiet Room
CC		Ceiling Grid	Manager's Office, HR Office, Office Area.
CC1		Ceiling Grid	Prep, Hallways (Prismatic)
CC2		Ceiling Grid	Hallways
D		Varies, Refer to Plan	Storage, Back Room, Dock Area, ECR Room, Loss Prevention.
D1		Varies, Refer to Plan	Storage, Back Room, Dock Area, ECR Room, Loss Prevention.
K5		Suspended 7'-6" (Fresh Meat & Deli Island Cases) Suspended 9'-0" (Floral, if applicable)	Refrigerated Fresh Meat and Deli Island Cases. Floral, if applicable. Refer to Plan for Length of Lighting Fixture
L18		Recessed	Recessed in Ceiling of Fitting Room, TLC Waiting Area.
L19		Recessed	Recessed in Fitting Room Ceiling, Beverage Center, Patio Entry.
L21		Recessed	Seafood & Meat Service Canopy. (DELETE, if no Canopy).
M		Surface Mount	Meat Prep Areas, Produce Prep Areas.
M1		Surface Mount	Meat Prep Areas
M8		Surface Mount	Meat Cooler over Grinder, or Meat Saw – Where Applicable.
M13		Surface Mount	All Refrig. Coolers, Retarders & Freezer Boxes, Floral Cooler (LED).
P24		Suspended Bottom of Pendant 6'-6"	Wine & Beer Tasting. DO NOT install Glass Shield.
P29		Suspended Bottom of Pendant 8'-0"	Bakery
P31		Suspended Bottom of Pendant 8'-0"	Deli
P32		Suspended Bottom of Pendant 8'-0"	Meat & Seafood
P38		Suspended Bottom of Pendant 7'-6"	Seating Area
RR1		Surface Mount	Canopy Surface Mounted.
S7		Wall Mount	Dock light fixtures (LED)
TR24		Bottom of trackhead even with Top of Graphic	Accent light for large graphics. Front Wall Graphics.
TR29		Varies, see Plan	Accent lights for Displays (LED narrow flood). Apparel, Floral, Produce, Deli, Bakery, Vestibule, Murray's Cheese.
TR30		Track Light (LED narrow flood).	Track Light (LED narrow flood). Adult Beverage, Kitchen Place, Deli, Bakery, Seafood.
TR31		Track mounted on dropped ceiling.	Wine Bar
TR33		Varies, see Plan	Accent lights for Displays (LED narrow flood). Apparel, Floral, Produce, Deli, Vestibule.
TR32		Track Light (LED narrow flood).	Track Light (LED narrow flood). Adult Beverage, Kitchen Place, Deli, Bakery, Seafood, Murray's Cheese.
2' TRACK		Coordinate Track Height with Fixture Height indicated above	Track part for trackheads such as TR33's, TR32's and TR31's.
4' TRACK			Track part for trackheads such as TR33's, TR32's and TR31's.
8' TRACK			Track part for trackheads such as TR33's, TR32's and TR31's.
12' TRACK			Track part for trackheads such as TR33's, TR32's and TR31's.
POWER FEED		Track part for trackheads such as TR33's, TR32's and TR31's.	
CONNECTOR		Track part for trackheads such as TR33's, TR32's and TR31's.	
FLEX CONNECTOR		Track part for trackheads such as TR33's, TR32's and TR31's.	
CANOPY ADAPTER		Adapter for Single Point Mounting (No Track) for TR33 and TR32, 5-3/8 inches square, install directly to outlet box.	
CURRENT LIMITER		Use with track	
Exterior Light Fixtures			
NM13			Exterior wall fixtures above exit doors (LED)(connected to generator)
WALLPACK			Exterior wall fixtures
"E" is to be used for stores that are not utilizing the generator, battery back-up ballast required. For stores with generator, the "E" is not required in the nomenclature.			

OUT SHEETS FOR LIGHT FIXTURES ARE LOCATED IN: SITEFOLIO/FILES/CAPITAL/ENTERPRISE SOURCING/DIRECT BUY OWNER FURNISHED PRODUCTS INFORMATION/LIGHTING INTERIOR FIXTURES, CUT SHEETS/KROGER STANDARD INTERIOR LIGHTING FIXTURES ALL. MASTER FIXTURE SCHEDULE IS LOCATED IN: SITEFOLIO/FILES/CAPITAL/ENTERPRISE SOURCING/DIRECT BUY OWNER FURNISHED PRODUCTS INFORMATION/LIGHTING INTERIOR FIXTURES, LIGHTING MASTER FIXTURE SCHEDULE.

LIGHTING SENSOR SYMBOL LEGEND:	
** Refer to Sitefolio Section 'Sitefolio/Files/Capital/Enterprise Sourcing/Direct Buy Owner Furnished Products Information/ Lighting _Interior_Fixtures/Lighting Master Fixture Schedule' for Lighting Sensor Manufacturer & Model **	
	TIMER SWITCH
	3-WAY TIMER SWITCH
	SINGLE POLE LIGHT SWITCH - (3) 3-WAY, (4) 4-WAY, (PL) PILOT --- AS REQUIRED.
	LIGHT LEVEL SENSOR. SEE NOTE No. 7
	ONE WAY CEILING MOUNTED LIGHTING SENSOR WITH SWITCHPACK ABOVE CEILING. CONNECT SENSOR TO SWITCHPACK WITH #18 AWG CLASS 2 CONDUCTORS.
	TWO WAY LIGHTING SENSOR SUSPENDED 12'-6" AB. FL. or AT CEILING WITH SWITCHPACK MOUNTED AT BAR JOIST. CONNECT SENSOR TO SWITCHPACK WITH #18 AWG CLASS 2 CONDUCTORS.
	TWO WAY LIGHTING SENSOR SUSPENDED 12'-6" AB. FL. or AT CEILING WITH SWITCHPACK MOUNTED AT BAR JOIST. CONNECT SENSOR TO SWITCHPACK WITH #18 AWG CLASS 2 CONDUCTORS.
	TWO WAY LIGHTING SENSOR SUSPENDED 15'-6" AB. FL. or AT CEILING WITH SWITCHPACK MOUNTED AT BAR JOIST. CONNECT SENSOR TO SWITCHPACK WITH #18 AWG CLASS 2 CONDUCTORS.
	ONE WAY WIDE ANGLE OCCUPANCY SENSOR.
	MOTION SENSOR - MET LOCATION OCCUPANCY SENSOR.
	MOTION SENSOR - PASSIVE INFRARED OCCUPANCY SENSOR.
	MOTION SENSOR SWITCH **
	OCCUPANCY SENSOR SWITCH
	MOMENTARY OVERRIDE
ALL LIGHTING CONTROLS NOT PART OF THE BUILDING EMS TO BE SET WITH A MINIMUM ON TIME OF 15 MINUTES	
** PROVIDE MOTION SENSOR SWITCHES IN AREAS WHERE THERE IS INTERMITTENT OCCUPANCY. EXAMPLES: BREAK ROOMS, CBT, CONFERENCE ROOMS, POS, EOR, PMV, FILE MANAGEMENT, PRICE CHANGING, ETC.	

BIDS AND PERMITS
12/13/2023
10/28/2023

Issued for: **80% OWNER REVIEW**

PROPOSED MINOR INTERIOR REMODEL FOR:

Kroger

STORE NO. D-361
425 N CENTER ST
NORTHVILLE, MI 48167

THE KROGER CO. OF MICHIGAN

jeffery a. scott architects p.c.

32316 grand river ave. suite 200
farmington, michigan 48336-3261
(248) 476-8800 fax (248) 476-8833

LIGHTING DETAILS & SCHEDULES

project no. **23101** sheet no. **E6.2.5**

copyright © 2023