SPARE CIRCUITS, IDF RECEPTACLES AND TV MONITOR RECEPTACLES

A. IN ADDITION TO ITEM(S) BELOW AND IN ADDITION TO ALL OTHER ELECTRICAL WORK SHOWN ON DRAWINGS, PROVIDE A TOTAL OF TEN (10) SPARE BRANCH CIRCUITS (INCLUDING NEW 1" CONDUIT PER CIRCUIT AND LABOR TO INSTALL CONDUIT, WIRE, AND TO MAKE FINAL CONNECTION), EACH UP TO 100 FEET FROM THE RESPECTIVE SOURCE PANELBOARD FOR FUTURE USE OR ADDITIONAL WORK AS DIRECTED BY KROGER. ASSUME EACH CIRCUIT SHALL BE 120V/20A/1P, BUT FIELD VERIFY EACH.

B. IN ADDITION TO ALL OTHER ELECTRICAL WORK SHOWN ON DRAWINGS, PROVIDE ONE (1) DUPLEX RECEPTACLE EACH, FOR UP TO FOUR (4) TELEVISION MONITORS THAT WILL BE INSTALLED AT VARIOUS LOCATIONS THROUGHOUT THE FACILITY AS REQUIRED. PROVIDE 20A/120V BRANCH CIRCUIT CONDUIT, WIRING AND HOME-RUNS TO NEAREST NORMAL GENERAL POWER PANELBOARD THAT HAS AVAILABLE POLE SPACE & BREAKERS. UP TO FOUR (4) MONITORS MAY BE CONNECTED TO THE SAME CIRCUIT. DETERMINE EXACT LOCATIONS IN FIELD.

GENERAL POWER NOTES

A. REFER TO EQUIPMENT SCHEDULES ON E6.1 SHEETS FOR MOUNTING HEIGHTS AND ADDITIONAL INFORMATION. SEE DETAILS ON E5-SERIES DRAWINGS WHERE APPLICABLE.

B. INSTALL ELECTRICAL OUTLETS FOR REFRIGERATION ISLAND CASES IN A STRAIGHT LINE ALIGNED WITH THE HUB DRAWING. COORDINATE W/PLBG. DIMENSIONS SIGNED PLAN. FIELD COORDINATE UNDER-SLAB CONDUIT AND RACEWAY LAYOUTS WITH ALL AFFECTED PARTIES PRIOR TO SLAB PLACEMENT.

C. FLUSH MOUNT ALL WALL OUTLETS IN FOOD PREP AREAS. OUTLETS LOCATED ABOVE STAINLESS STEEL TABLES SHALL BE A MINIMUM OF 46" AFF. PROVIDE GROUND FAULT CIRCUIT INTERRUPTER TYPE DUPLEX RECEPTACLES FOR ALL 125 VOLT SINGLE PHASE 15 AND 20 AMP OUTLETS INSTALLED IN KITCHEN/FOOD PREP TYPE AREAS. MOUNT ALL WALL OUTLETS IN ALL PREP AREAS HORIZONTALLY. IN ADDITION TO THE ABOVE, PROVIDE WEATHERPROOF COVERS (NEMA 3R WHILE IN USE) FOR ALL OUTLETS IN PRODUCE PREP AND MEAT PREP. NO ELECTRICAL CONDUIT SHALL BE INSTALLED EXPOSED IN PREP AREA INTERIORS.

D. 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 FIXTURING ELECTRICAL CONTRACTOR.

E. ALL WALL MOUNTED OUTLETS SERVING REFRIGERATED CASES WITH RETURN AIR PLENUM ABOVE SHALL BE ACCESSIBLE (WITH ALL WIRING PLENUM RATED AS/IF APPLICABLE).

F. REFER TO ELECTRICAL DIMENSION PLANS FOR GENERAL DIMENSIONAL INFORMATION THAT SHALL ALSO SCHEMATICALLY APPLY FOR CORRESPONDING SYSTEMS WORK.

G. CIRCUITS PULLED THRU RACEWAYS SHALL BE 120V UNLESS INDICATED OTHERWISE.

H. WIRE CASH REGISTERS (GE38) WITH SEPARATE AND INDEPENDENT CIRCUITS. CIRCUITS SHALL HAVE A SEPARATE AND INDEPENDENT GROUND WIRE, AND SEPARATE AND INDEPENDENT NEUTRAL WIRE (CAN NOT BE PHASED OUT AT THE PANEL). EACH BRANCH CIRCUIT FOR CASH REGISTERS SHALL BE AS FOLLOWS: (3) #10 AWG WIRES EACH CASH REGISTER, (1) HOT, (1) NEUTRAL AND (1) INSULATED/ISOLATED GROUND (PLUS EQUIPMENT GROUND).

I. WHERE MORE THAN (1) ELECTRICAL LOAD IS INDICATED AT AN OUTLET, PROVIDE A SEPARATE CIRCUIT FROM THE ELECTRIC PANEL FOR EACH LOAD.

J. DEDICATED ELECTRICAL ISOLATED GROUND PANEL(S) SHALL BE USED EXCLUSIVELY FOR ITEMS SO SPECIFIED - OTHER CIRCUITRY WILL NOT BE PERMITTED IN THIS PANEL. THESE PANELS SHALL BE 208Y/120V, 3-PHASE, 5-WIRE WITH FEEDERS CONSISTING OF (3) HOTS, (1) INSULATED NEUTRAL AND (1) INSULATED AND ISOLATED GROUND (PLUS EQUIPMENT GROUND), WITH GROUND AND NEUTRAL BUSSES INSULATED AND ISOLATED FROM THE PANEL. ALL WIRING DEVICES SERVED BY THE DEDICATED ELECTRIC PANEL SHALL BE EQUIPPED AND WIRED FOR ISOLATED GROUND.

K. ALL ELECTRICAL AND COMMUNICATION JUNCTION/OUTLET BOXES SHOWN AGAINST THE WALL SHALL BE MOUNTED IN THE WALL. REFER TO THE ELECTRICAL EQUIPMENT SCHEDULE FOR [illegible] INFORMATION.

L. ROUTE ALL GLASS DOOR ANTI SWEAT CIRCUIT HOME-RUNS THROUGH THE P[illegible]C PANEL LOCATED AT THE SOURCE PANELBOARD. ORIGINATE ALL CASE ANTI-SWEAT HEATER CIRCUITS FROM PANELBOARD(S) EXCLUSIVELY USED FOR ANTI-SWEAT HEATER CIRCUITS AND NOT REQUIRING ACCESS BY STORE PERSONNEL.

M. ORIGINATE THE FOLLOWING CIRCUITS FROM PANELBOARDS [illegible] REQUIRING ACCESS BY STORE PERSONNEL: COOLING COILS, [illegible]LERS, FREEZERS, RET[illegible] [illegible]DUCE PR[illegible] MEAT PREP), [illegible]SE FANS AND COMBINATION CAS[illegible]S/ANTI-SWEAT HEATERS.

N. E.C. SHALL MAKE FINAL TERMINATIONS AT BOTH E[illegible] OF EACH WI[illegible] AS A[illegible] DEFROST AND 208V COOLING COILS. PROVIDE S[illegible]T SLACK AT [illegible] ENDS TO [illegible] SERVICE LOOPS AND TO FACILITATE PROPER TERMI[illegible]TIONS. ELSEWH[illegible] INCLUDING POWER WIRING SHOWN ON OTHER DRAWING SHEETS, ELECTRICAL CONTRACTOR SHALL [illegible] ALL REQUIRED TERMINATIONS.
IN GENERAL, RECEPTACLES SHOWN [illegible] EQUIPMENT MARKING OR OTHER CALLOUT ARE CONVENIENCE OUTLETS THAT SHALL BE [illegible]NTED AT 18" [illegible]

O. [illegible]DLESS OF WHERE JB's ARE SHOWN [illegible] DRAWINGS, [illegible] CASES FROM WALL WHEREVER CASES [illegible]CATED AGAINST A WALL. INSTALL W[illegible]UTLET/JUNC[illegible]ES FOR SUCH CASES SO THAT BO[illegible] OF BOXES ARE TWO (2) INCHES A[illegible] TOP OF RES[illegible]TIVE CASE (FIELD VERIFY).

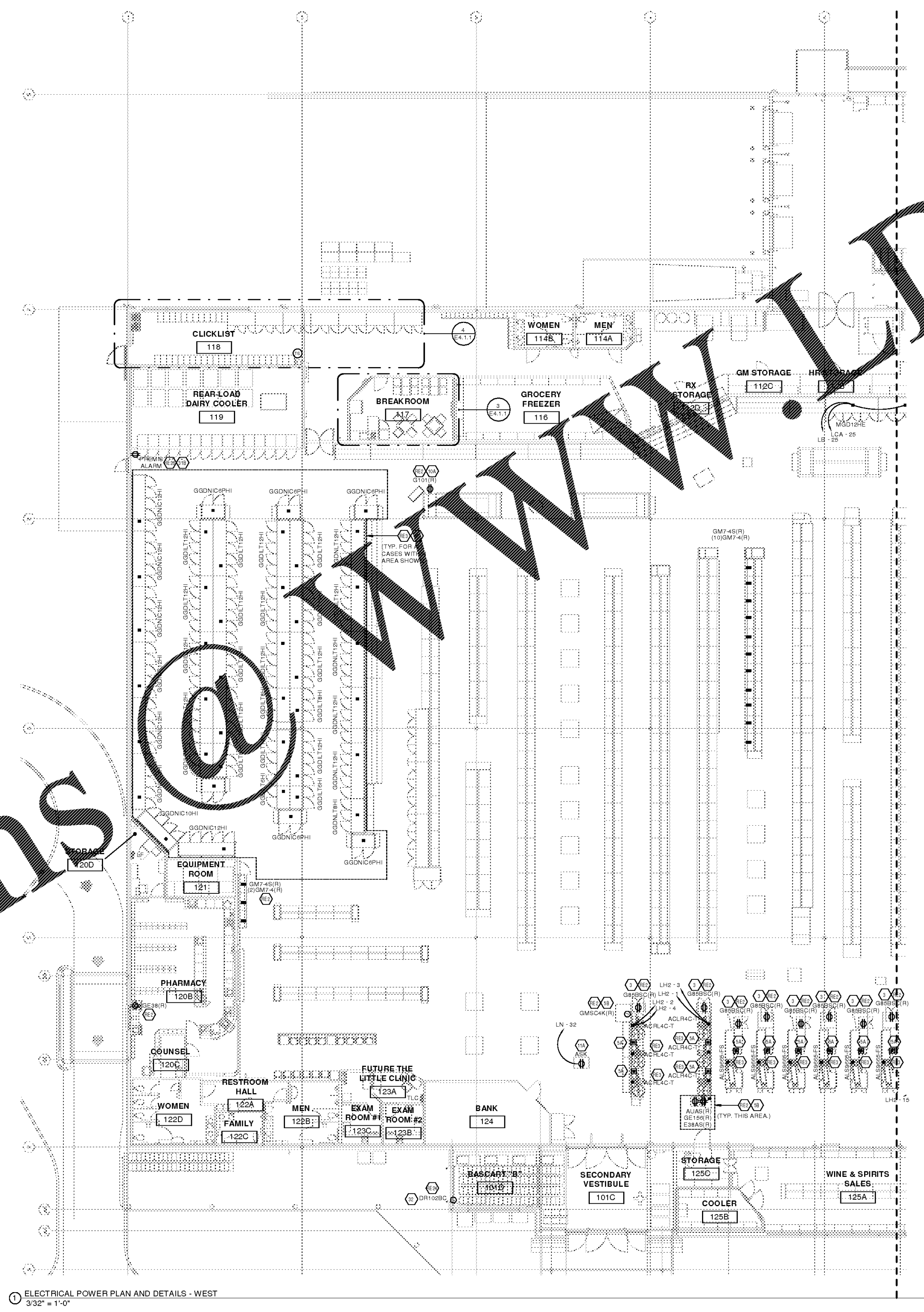
P. SEE [illegible] "F" ON E5-SERIES DRAWINGS FOR [illegible]IAL CIRCUITING AND DIMENSIONING REQUIREMENTS THAT [illegible] TO REFRIGERATED CASE EQUIPME[illegible]

Q. FEC IS [illegible]NSIBLE FOR ALL NEC REQUIRED L[illegible] DISCONNECTING MEANS (NOT FURNISHED WITH EQUIPME[illegible] BY KROGER) FOR A COMPLETE INSTALLATION. PROVIDE ALL DISCONNECTING MEANS PER NEC [illegible]

R. INSTALL (1) [illegible]ER-FURNISHED WAT[illegible]OPPER FS-705 OCCUPANCY SENSOR, MOUNTED ATOP GLASS-DOOR CASE, [illegible]VERY (2) GLASS [illegible] CASES. DO NOT INSTALL ON CASES LOCATED ALONG A WALL OR ON GLASS [illegible] END CAPS. [illegible]FER TO "KROGER INSTALLATION SPECIFICATIONS FOR WATT STOPPER MOTI[illegible]SORS [illegible] HUSSMANN CASES" FOR ADDITIONAL INFORMATION. SEE EISD-1 ON E5-SERIES DRAWING[illegible]

KEYED NOTES

3	FEED EQUIPMENT VIA METHODS USED FOR ADJACENT CASHIER STATION. CONCEAL WORK WITHIN CHECKOUT CASEWORK. SEE DETAILS ESD 62 & ESD 62A.
5A	PROVIDE HOLLOW TUBE-STEEL "TELE-POWER" POLE TO BE USED AS A CABLE/RACEWAY CHASE. NOTE THAT THE POLE IS NOT A UL LISTED/LABELED RACEWAY. ALSO, PROVIDE MATERIALS TO ANCHOR AT TOP OF COUNTER/GONDOLA (OPEN ON TWO SIDES FOR EXIT OF CABLES/RACEWAYS). ANCHOR ABOVE CEILING, IN OVERHEAD JOIST SPACE, WITH UNISTRUT OR OTHER NEATLY INSTALLED METHOD AS DETERMINED IN FIELD. TRANSITION TO FLEXIBLE STEEL CONDUIT (WITH PARITY SIZED GREEN INSULATED EQUIPMENT GROUND CONDUCTORS) AT TOP OF POLE AND USE POLE AS A CHASE TO FEED DOWN TO COUNTERTOP EQUIPMENT. SEE DETAILS EISD-2, ESD-62, ESD-62A ON E5-SERIES SHEETS.
5B	UTILIZE ADJACENT RACEWAY IN SAME ROW OR COLUMN. CONCEAL ALL WIRING AND CONDUIT FROM VIEW EN ROUTE TO SINGLE RACEWAY.
10A	BEC SHALL ROUTE CIRCUIT TO JUNCTION BOX IN FLOOR UNDER CASE/UNIT AS SHOWN. FEC SHALL PROVIDE DUPLEX RECEPTACLE ON END OF CASE/UNIT, CONNECTED TO 20A/120V CIRCUIT FOR PROMOTIONAL AND CONVENIENCE OUTLET. VERIFY FINAL LOCATION WITH KROGER PM PRIOR TO INSTALLATION.
11A	BEC TO PROVIDE ABOVE CEILING JUNCTION BOX AND CORD DROP AS SHOWN ON DETAIL ESD-16 ON E5-SERIES DRAWINGS. CORD DROP TO BE WHITE IN AREAS IN VIEW TO CUSTOMERS. FINAL DROP TO BE INSTALLED ONLY AFTER CASE HAS BEEN SET. MATCH SO CABLE SIZE AND RECEPTACLE WITH CASE REQUIREMENTS IN FIELD. PRIOR TO INSTALLATION VERIFY FINAL LOCATION WITH KROGER PM.
31B	ALARMED EMERGENCY EXIT DOOR. B.E.C. TO ENSURE A COMPLETE INSTALLATION. SEE DETAIL ESD-22B ON E5-SERIES DRAWINGS, FIRE ALARM PLAN, PHONE/DATA/SPECIALTY PLAN, AND PREMISE ALARM PLAN FOR ADDITIONAL REQUIREMENTS.
32	BEC SHALL PROVIDE POWER AND CONTROL WIRING AS REQUIRED FOR OVERHEAD DOOR - INCLUDING INSTALLATION & WIRING OF ALL SAFETY DEVICES. MOUNT RECEPTACLE FOR DOOR POWER ADJACENT TO DOOR BELOW POWERED OPENER AT 8'6" A.F.F. PROVIDE FLUSH WALL MOUNTED KEYPAD OPERATOR (4'0" AFF) IN EXTERIOR WALL ADJACENT TO GARAGE DOOR. PROVIDE TWO (2) WALL-MOUNTED PUSHBUTTONS AT LOCATIONS SHOWN (4'0" AFF). PROVIDE FLUSH MOUNTED WALL SWITCH AT BASCART ENTRANCE NEAREST VESTIBULE, WIRED AHEAD OF ALL OTHER DOOR WORK (ENGRAVE WALL PLATE TO READ "OVERHEAD DOOR").
92	INDICATED CASE(S) FED FROM ABOVE THRU VERTICAL RACEWAY/COLUMN-WRAP. BEC SHALL PROVIDE CIRCUIT TO JUNCTION BOX IN JOIST SPACE. FEC SHALL PROVIDE CONDUIT AND WIRING TO MAKE FINAL TERMINATIONS AT REQUIRED CASE(S). COORDINATE CONDUIT DROP(S) WITHIN 12" OF OTHER TRADES (I.E. REFRIGERATION, PLUMBING).REFER TO EISD-2 ON E5-SERIES SHEET. REFER TO RISD-32 AND RISD-32A ON REFRIGERATION DRAWINGS PROVIDED BY KROGER.
RE2	RELOCATE EXISTING EQUIPMENT TO LOCATION SHOWN. SEE DEMO POWER PLAN FOR EXISTING LOCATION. EXTEND/MODIFY/SUPPLEMENT EXISTING CONDUIT AND WIRE FROM PREVIOUS CIRCUIT LOCATION TO NEW. PROVIDE ALL MATERIALS AS REQUIRED FOR A COMPLETE RELOCATION.
RE3	EXTEND/SUPPLEMENT EXISTING CIRCUIT(S) TO NEW EQUIPMENT SHOWN. FOR EXAMPLE CONNECT FANS TO CIRCUITS THAT PREVIOUSLY SERVED FANS COMPUTERS THAT PREVIOUSLY SERVED COMPUTERS, LIGHTS TO CIRCUITS THAT PREVIOUSLY SERVED LIGHTS, ETC. E.C. TO ENSURE NEWLY METERED LOAD OF EACH CIRCUIT DOES NOT EXCEED 1800W. PROVIDE ADDITIONAL CIRCUITS FROM SIMILAR PANEL FOR LOADS THAT EXCEED THIS LIMIT.
RE24	EXTEND/SUPPLEMENT EXISTING CIRCUIT(S) TO NEW EQUIPMENT SHOWN.
RE26	EXTEND/SUPPLEMENT EXISTING CIRCUIT FROM NEAREST PREMIS ALARM TO NEW EQUIPMENT SHOWN.



1 ELECTRICAL POWER PLAN AND DETAILS - WEST
3/32" = 1'-0"

2" REFERENCE LINE

JAD JAT

STUDIO A architecture
1371 BARDSTOWN ROAD
LOUISVILLE, KENTUCKY 40204
T:502.5[illegible] F:502.589.80[illegible]
WWW.STUDIOAARCH.COM

CONSULTANTS

KLH ENGINEERS
MECHANICAL/ELECTRICAL ENGINEERS
WWW.KLHENGRS.COM
LEXINGTON, KENTUCKY
LOUISVILLE, KENTUCKY
COLUMBUS, OHIO
NEW YORK, NEW YORK
1538 ALEXANDRIA PIKE, SUITE 11
FT. THOMAS, KENTUCKY 41075
800-354-9783 859-442-8050
859-442-8058 FAX

KROGER L758

234 EASTBROOKE PKWY,
MT WASHINGTON, KY

CLIENT

KROGER COMPANY
1600 Ormsby Station Court
Louisville, Kentucky 40223

ELECTRICAL POWER PLAN AND DETAILS - WEST

No.	Description	Date

BID ISSUE

© 2015 STUDIO A ARCHITECTURE
MATERIAL INCLUDED HEREIN IS COVERED BY COPYRIGHT. USE OF THIS WORK IN WHOLE OR IN PART IS FORBIDDEN WITHOUT THE EXPRESSED WRITTEN CONSENT OF STUDIO A ARCHITECTURE.

E1.3.1

Project number 20168
Date 08/17/2018

OWNERSHIP OF INSTRUMENTS OF SERVICE
All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the Consultant as instruments of service shall remain the property of the Consultant. The Consultant shall retain all common law, statutory and other reserved rights, including, without limitation, the copyright thereto.

Order Plans @ WWW.LDIline.com