

SYMBOL LEGEND

1. NOT ALL SYMBOLS MAY BE APPLICABLE TO THIS PARTICULAR PROJECT.
2. MEASURE ALL DIMENSIONS TO DEVICE CENTERLINES.

DESCRIPTION	MTG HT	REMARKS
HOMERUN	-	ARROW REPRESENTS BRANCH CIRCUIT.
POWER POLE	-	-
LUMINAIRE	-	HALF SHADING REPRESENTS EMERGENCY.
STRIP LUMINAIRE	-	-
EXIT SIGN, CEILING MOUNTED	CEILING	SHADING REPRESENTS LETTERED FACE.
EXIT SIGN, WALL MOUNTED	+96"	SHADING REPRESENTS LETTERED FACE.
TRACK LIGHTING	-	PROVIDE ALL REQUIRED ACCESSORIES.
EMERGENCY LIGHTING UNIT	+96"	-
RECEPTACLE, SIMPLEX, NEMA 5-20R, FLOOR MOUNTED	FLOOR	-
RECEPTACLE, DUPLEX, NEMA 5-20R, FLOOR MOUNTED	FLOOR	-
RECEPTACLE, TWO GANG DUPLEX, NEMA 5-20R, FLOOR MOUNTED	FLOOR	-
RECEPTACLE, DUPLEX, NEMA 5-20R	+18"	MOUNT WITH GROUND ORIENTED DOWN. MOUNT AT +48" SERVING TABLETOPS.
RECEPTACLE, SIMPLEX, NEMA 5-20R	+18"	MOUNT WITH GROUND ORIENTED DOWN. MOUNT AT +48" SERVING TABLETOPS.
RECEPTACLE, TWO GANG DUPLEX, NEMA 5-20R	+18"	MOUNT WITH GROUND ORIENTED DOWN. MOUNT AT +48" SERVING TABLETOPS.
SPECIAL RECEPTACLE AS NOTED OR REQUIRED	+18"	MOUNT AT +48" SERVING TABLETOPS.
RECEPTACLE, CLOCK-TYPE, NEMA 5-20R	+96"	MOUNT WITH GROUND ORIENTED DOWN.
JUNCTION BOX	-	MAKE FINAL CONNECTION TO EQUIPMENT SERVED.
JUNCTION BOX, WALL MOUNTED	-	MAKE FINAL CONNECTION TO EQUIPMENT SERVED.
SWITCH, SPST, 20A	+48"	MOUNT WITH OFF ORIENTED DOWN. GANG WHERE PRACTICABLE.
SAFETY SWITCH, FUSED	-	SIZE AS NOTED OR REQUIRED.
SAFETY SWITCH, NON-FUSED	-	SIZE AS NOTED OR REQUIRED.
CONTACTOR	-	SIZE AS NOTED OR REQUIRED.
STARTER, MAGNETIC	-	SIZE AS NOTED OR REQUIRED.
STARTER, COMBINATION MAGNETIC	-	SIZE AS NOTED OR REQUIRED.
CONTROL PANEL	-	-
MOTOR, SINGLE PHASE	-	MAKE FINAL CONNECTION TO EQUIPMENT SERVED.
MOTOR, THREE PHASE	-	MAKE FINAL CONNECTION TO EQUIPMENT SERVED.

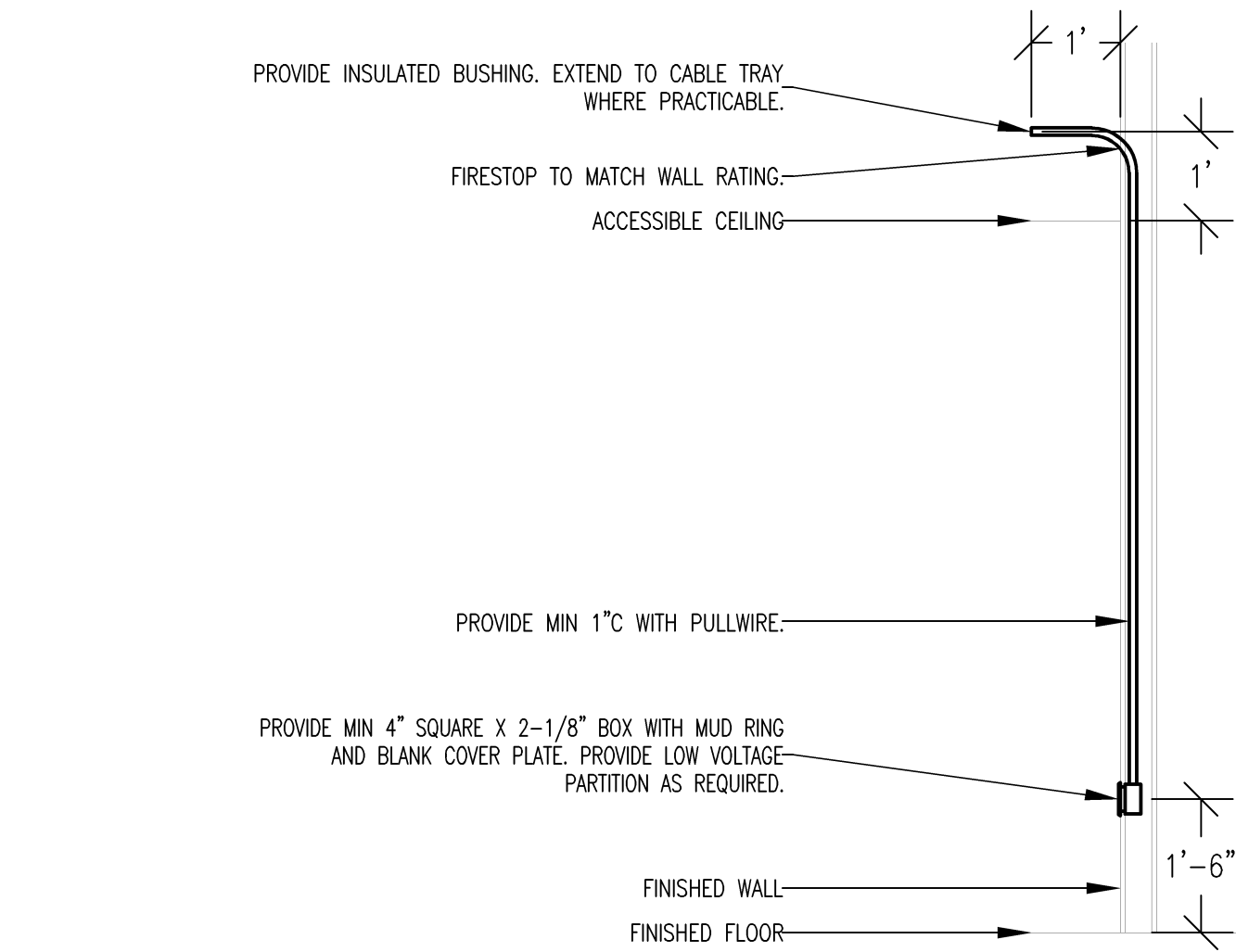
DESCRIPTION	MTG HT	REMARKS
DR DOOR RELEASE	-	-
ES ELECTRIC STRIKE	-	-
ML MAGNETIC LOCK	-	-
CR CARD READER	+48"	-
K KEYPAD	+48"	-
FAA FIRE ALARM ANNUNCIATOR PANEL	-	-
FACP FIRE ALARM CONTROL PANEL	-	-
DACT DIGITAL ALARM COMMUNICATOR TRANSMITTER	-	-
FIRE ALARM HORN/STROBE	-	-
FIRE ALARM STROBE	-	-
F MANUAL PULL STATION, SINGLE ACTION	+48"	-
S DETECTOR, SMOKE	CEILING	-
C DETECTOR, CARBON MONOXIDE	CEILING	-
H DETECTOR, HEAT	CEILING	-
H2 DETECTOR, HYDROGEN	CEILING	-
FS FLOW SWITCH	-	-
TS TAMPER SWITCH	-	-
PANELBOARD	-	-
ATS AUTOMATIC TRANSFER SWITCH	-	-
DATA OUTLET ROUGH-IN	+18"	-
DATA OUTLET FLOOR BOX	FLOOR	-
COMBINATION TELEPHONE/DATA ROUGH-IN	+18"	-
COMBINATION TELEPHONE/DATA FLOOR BOX	FLOOR	-
TELEPHONE OUTLET ROUGH-IN	+18"	-
TELEPHONE OUTLET FLOOR BOX	FLOOR	-
S SPEAKER ROUGH-IN, CEILING MOUNTED	CEILING	-
S SPEAKER ROUGH-IN	+96"	-

GENERAL ABBREVIATIONS

1P ONE POLE	KVA KILOVOLT AMPERE
2P TWO POLE	KVAR KILOVOLT AMPERE REACTIVE
3P THREE POLE	KW KILOWATT
4P FOUR POLE	LP LIGHTING PANELBOARD
1W ONE WIRE	LRA LOCKED ROTOR AMPS
2W TWO WIRE	LTC LIGHTING
3W THREE WIRE	MC METAL CLAD CABLE
4W FOUR WIRE	MCB MAIN CIRCUIT BREAKER
A AMPERE	MCC MOTOR CONTROL CENTER
ABV ABOVE	MDP MAIN DISTRIBUTION PANEL
AC ALTERNATING CURRENT	MIN MINIMUM
AC ARMORED CABLE	MISC MISCELLANEOUS
AFI ARC FAULT CIRCUIT INTERRUPTER	MLO MAIN LUGS ONLY
AFG ABOVE FINISHED GRADE	MTD MOUNTED
AHJ AUTHORITY HAVING JURISDICTION	MTC MOUNTING
AC AMPERE INTERRUPTING CAPACITY	N/A NOT APPLICABLE
AL ALUMINUM	NC NORMALLY CLOSED
ARCH ARCHITECT	NEC NATIONAL ELECTRICAL CODE
ATS AUTOMATIC TRANSFER SWITCH	NIC NOT IN CONTRACT
A/V AUDIOVISUAL	NL NIGHT LIGHT
BLDG BUILDING	NMC NONMETALLIC SHEATHED CABLE
C, COND CONDUIT	NRTL NATIONALLY RECOGNIZED TESTING LABORATORY
CB CABLE TELEVISION CIRCUIT BREAKER	# NUMBER
CKT CIRCUIT	NTS NOT TO SCALE
CLG CEILING	PB PULLBOX
CT CURRENT TRANSFORMER	PC PLUMBING CONTRACTOR
CU COPPER	PH, # PHASE
CL CENTERLINE	PINL PANELBOARD
DACT DIGITAL ALARM COMMUNICATOR/TRANSMITTER	PP POWER PANEL
DC DIRECT CURRENT	PR PRR
Δ DELTA	PRI PRIMARY
D, DED DEDICATED	PT POTENTIAL TRANSFORMER
DISC DISCONNECT	PR POWER
DN DOWN	(R) RELOCATED
DPDT DOUBLE POLE DOUBLE THROW	RSC RIGID STEEL CONDUIT
DPST DOUBLE POLE SINGLE THROW	S SURFACE MOUNTED
EXIST EXISTING	SEC SECONDARY
EC ELECTRICAL CONTRACTOR	SN SOLID NEUTRAL
EM, EMG WIRED ON EMERGENCY CIRCUIT	SPST SINGLE POLE DOUBLE THROW
EMT ELECTRICAL METALLIC TUBING	SPST SINGLE POLE SINGLE THROW
EOL END OF LINE	STP SHIELDED TWISTED PAIR
EQPM, EQPT EQUIPMENT	SUSP SUSPENDED
ENC ELECTRIC WATER COOLER	SW SWITCH
FLUSH	SWBO SWITCHBOARD
FA FIRE ALARM	TEL TELEPHONE
FBO FURNISHED BY OTHERS	TERM TERMINAL(S)
FC FIRE PROTECTION CONTRACTOR	TV TELEVISION
FLA FULL LOAD AMPS	TYP TYPICAL
FMC FLEXIBLE METALLIC CONDUIT	UG UNDERGROUND
GC GENERAL CONTRACTOR	UNSHIELDED TWISTED PAIR
GFI, GFCI GROUND FAULT CIRCUIT INTERRUPTER	V VOLT
GND, GRD GROUND	VT VAPORTIGHT
GRC GALVANIZED RIGID CONDUIT	UNLESS NOTED OTHERWISE
H2A HAND-OFF-AUTO	WYE
H, HORIZ HORIZONTAL	W WATT
HP HORSEPOWER	WH WATHOUR
HVAC HEATING, VENTILATING, AND AIR-CONDITIONING	WP WEATHERPROOF
HZ HERTZ	WT WATERTIGHT
IAM INDIVIDUAL ADDRESSABLE MODULE	WW WIREWAY
IG ISOLATED GROUND	XTMR TRANSFORMER
JB JUNCTION BOX	XP EXPLOSIONPROOF
KOHMIL THOUSAND CIRCULAR MILS	ZAM ZONE ADAPTER MODULE
K/O KNOCK-OUT	Y MOUNTING UNITS TO CENTERLINE ABOVE FINISHED FLOOR OR GRADE

GENERAL NOTES

- NOT ALL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES MAY BE APPLICABLE TO THIS PROJECT.
- DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY.
- DRAWINGS INDICATE ONLY INTENT; IDENTIFIED CIRCUITS BASED ON ACCESSIBLE EQUIPMENT AND DIRECTORIES AND AVAILABLE RECORD DOCUMENTS, WHICH MAY CONTAIN INACCURACIES. FIELD VERIFY AVAILABLE CIRCUITS, LOADS, AND EQUIPMENT, LUMINAIRE, AND DEVICE QUANTITIES. BALANCE LOADS AND MAKE ADJUSTMENTS AS REQUIRED FOR ACTUAL FIELD CONDITIONS.
- MAINTAIN OPERATION OF ALL EXISTING ELECTRICAL SYSTEMS, SUBSYSTEMS, AND PORTIONS THEREOF, TO REMAIN. INCLUDE IN BASE BID ALL TEMPORARY WORK REQUIRED TO MAINTAIN OPERATION DURING ESTABLISHED CONSTRUCTION PHASING.
- THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL."
- WHERE THE TERM "RELOCATE" IS USED IN THESE DRAWINGS, PROVIDE NEW DEVICES, COVER PLATES, AND WIRING METHODS MATCHING THE ORIGINAL DEVICES, COVER PLATES, AND WIRING METHODS WHERE PRACTICABLE. EXTEND EXISTING WIRING METHODS AS REQUIRED TO ACCOMMODATE NEW EQUIPMENT LOCATIONS. PROVIDE ADJUSTMENTS OR ADDITIONAL BRANCH CIRCUITS AS REQUIRED FROM NEAREST SUITABLE PANELBOARD.
- CONDUIT AND WIRE SIZES INDICATED ARE MINIMUM REQUIREMENTS. OPTIONALLY COMBINE HOMERUNS, DERATE CONDUCTORS, AND MAKE ADJUSTMENTS AS REQUIRED FOR SPECIFIC METHOD OF INSTALLATION.
- ENSURE FEEDER VOLTAGE DROP SHALL NOT EXCEED 2% AND BRANCH CIRCUIT VOLTAGE DROP SHALL NOT EXCEED 3%. MAKE ADJUSTMENTS AS REQUIRED FOR SPECIFIC METHOD OF INSTALLATION. SHOULD ANY EQUIPMENT FAIL TO OPERATE PROPERLY WITHIN THE WARRANTY PERIOD DUE TO IMPROPER VOLTAGE, CORRECT IMPROPER VOLTAGE WITHIN SEVENTY-TWO HOURS UPON RECEIVING WRITTEN NOTICE.
- ENSURE ALL LUMINAIRES ARE FURNISHED WITH FACTORY LABELS INDICATING MAXIMUM LAMP WATTAGES NOT EXCEEDING THOSE SPECIFIED.
- ENSURE ALL LUMINAIRES ARE FURNISHED WITH FACTORY LABELS INDICATING COMPATIBILITY WITH UL FIRE-RATED CEILING ASSEMBLIES AS REQUIRED.
- INCLUDE IN BASE BID AN ADD/DEDUCT UNIT PRICE FOR EACH TYPE OF EMERGENCY OR EXIT LIGHTING COMPLETELY INSTALLED, INCLUDING, BUT NOT LIMITED TO, THE LUMINAIRE AND BRANCH CIRCUIT WIRING METHODS.
- PROVIDE GFCI PROTECTION FOR ALL 125/15/1 AND 125/20/1 RECEPTACLES IN NON-DWELLING UNIT KITCHENS AS REQUIRED BY CODE.
- PROVIDE INDIVIDUAL GFCI RECEPTACLES. DO NOT WIRE NON-GFCI RECEPTACLES TO LOAD SIDE OF GFCI RECEPTACLE.
- PROVIDE AFCI PROTECTION FOR ALL 120/15/1 AND 120/20/1 BRANCH CIRCUITS SERVING DWELLING UNIT BEDROOMS AS REQUIRED BY CODE.
- PROVIDE A SUITABLE DISCONNECTING MEANS FOR EACH FLUORESCENT LUMINAIRE AS REQUIRED BY CODE.
- THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL."
- WHERE THE TERM "RELOCATE" IS USED IN THESE DRAWINGS, PROVIDE NEW DEVICES, COVER PLATES, AND WIRING METHODS MATCHING THE ORIGINAL DEVICES, COVER PLATES, AND WIRING METHODS WHERE PRACTICABLE. EXTEND EXISTING WIRING METHODS AS REQUIRED TO ACCOMMODATE NEW EQUIPMENT LOCATIONS. PROVIDE ADJUSTMENTS OR ADDITIONAL BRANCH CIRCUITS AS REQUIRED FROM NEAREST SUITABLE PANELBOARD.
- COORDINATE WITH OTHER TRADES AND PROVIDE ALL HARD-WIRED CONNECTIONS AND RECEPTACLE, PLUG, AND GROUND SETS AS REQUIRED FOR OTHER TRADES' EQUIPMENT UNLESS NOTED OTHERWISE. MAKE ADJUSTMENTS AS REQUIRED TO ACCOMMODATE CHANGES ORIGINATED BY OTHER TRADES OR IN ACTUAL ELECTRICAL SERVICE REQUIREMENTS UPON EQUIPMENT DELIVERY.
- TEMPORARILY REMOVE AND REINSTALL ALL WORK REQUIRED FOR INSTALLATION OF NEW WALL FINISHES AS INDICATED ON SHEET A11.4.
- PROVIDE REQUESTED DATA FOR ARC FLASH. SEE ELECTRICAL SPECIFICATIONS. INSTALL ALL PANEL LABELS FURNISHED BY KROGER.
- REFER TO PHASING PLAN FOR REQUIRED REFRIGERATION TEMPORARY MOVES REQUIRED TO KEEP OPERATING STORE IN FULL OPERATION AT ALL TIMES.



1
EO TELEPHONE/DATA RECEPTACLE ROUGH-IN

SCALE: 1/2"=1'

ISSUED FOR:
BIDS & PERMITS
80% OWNER REVIEW

06-28-2015
06-22-2015

PROPOSED INTERIOR REMODEL FOR:

STORE NO. D-361

425 N. CENTER STREET
NORTHVILLE, MI 48167

THE KROGER CO. OF MICHIGAN

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ELECTRICAL COVER SHEET

project no.
15100

sheet no.
EO