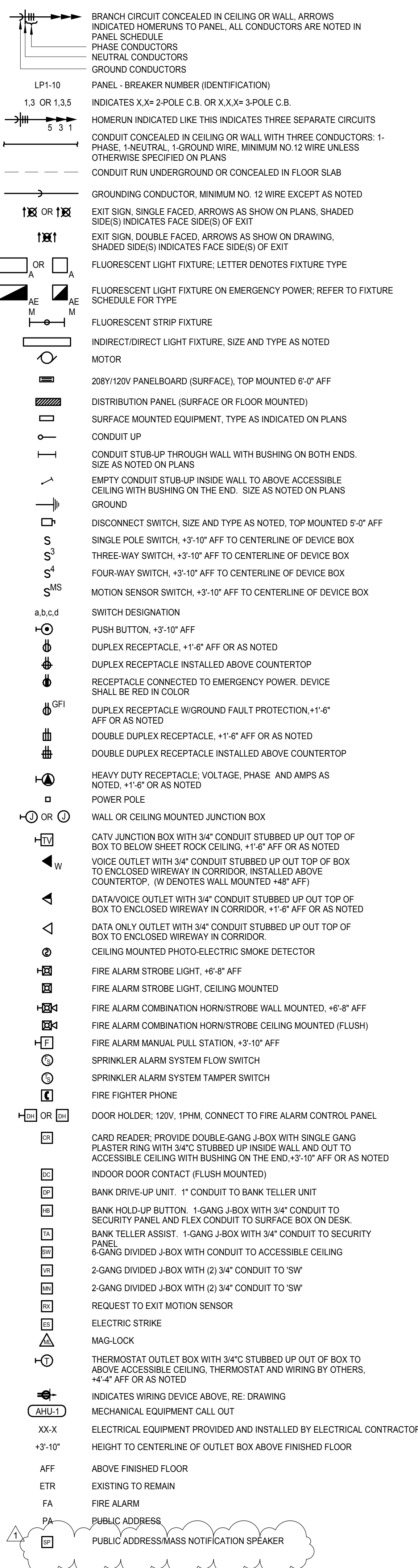


GENERAL NOTES (TYPICAL ALL SHEETS)

- REFER TO ARCHITECTS REFLECTED CEILING PLANS FOR EXACT PLACEMENT OF LIGHT FIXTURES, SPEAKER AND F. A. DEVICES IN THE CEILING SYSTEM.
- REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR COORDINATION OF LOCATION OF ALL WIRING DEVICES BEFORE ROUGH-IN OF J-BOXES.
- REFER TO ARCHITECTURAL PLANS FOR DETAIL OF ALL CONDUIT THRU ROOF PENETRATIONS.
- ALL JUNCTION BOXES FOR RECEPTACLES SHALL BE EVENLY SPACED ALONG WALL.
- CONTRACTOR SHALL CONNECT 120V LIGHTS AND RECEPTABLES TO SPARE #2A (CIRCUIT BREAKERS) IN EXISTING PANELBOARD. LABEL CIRCUIT BREAKER WITH CORRECT IDENTIFICATION
- INSTALL BLANK COVERPLATE ON ALL OPEN OR ABANDONED DEVICE BOXES. VERIFY COLOR WITH ARCHITECT
- WIRING TO BE REMOVED BACK TO THE NEAREST DEVICE TO REMAIN. WIRING SHALL BE REMOVED WITH THE FIRST REMOVAL OF THE PANELBOARD.
- ANY MATERIAL, REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY THE CONTRACTOR.
- NEW CIRCUTRY SHOWN FOR NEWEXISTING POWER AND LIGHTING IS DIAGRAMMATIC AND IS INTENDED TO SHOW WHICH DEVICES ARE TO BE GROUPED ON INDIVIDUAL CIRCUITS. EXISTING WIRING THAT CONFORMS TO THE INTENT OF THE DRAWINGS MAY BE USED.
- POUNDED UPDATED, TYPEWRITTEN PANELBOARD DIRECTORY FOR EACH PANELBOARD WHICH CIRCUITS HAVE BEEN ADDED TO (DO NOT MODIFY).
- CONTRACTOR TO REFERENCE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING, RATING, AND SCHED. OF BRANCH CIRCUITS AND OR FEEDERS AT OR BELOW 100AMPS
- EXISTING RECEPTABLES AND SWITCHES TO REMAIN EXCEPT THOSE THAT ARE CHIPPED, CRACKED OR DAMAGED IN ANY OTHER WAY SHALL BE REPLACED TO MATCH EXISTING.
- SUPPORT ALL LIGHT FIXTURES WITH A MINIMUM OF 1/4 (2 G. HANGER WIRES TO STRUCTURE ABOVE).
- CONNECT EAT AND EMERGENCY LIGHTS TO HOT LEGS, NOT SWITCH LEGS.
- REPAIR AND/OR REPLACE ANY DAMAGED CEILING TILE OR GRID DUE TO INSTALLATION OF CONDUITS ETC. ABOVE EXISTING CEILING. WALK BUILDING WITH ARCHITECT PRIOR TO COMMENCING WORK TO NOTE ANY EXISTING DAMAGED CEILING TILE OR GRID.
- CLEAN AND CHECK ALL EXISTING LIGHT FIXTURES FOR PROPER OPERATION AND REPLACE ANY BROKEN SOCKETS, LENS, LOUVERS, OR DEFECTIVE BALLAST. REALIGN ALL EXISTING FIXTURES WITH NEW LAMPS.
- DISCONNECTS FOR MECHANICAL EQUIPMENT ARE PROVIDED BY OTHERS. UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL FOLLOW THE FOLLOWING GUIDE LINES:
- a. MAXIMUM OF 16A PER 20A/1P CIRCUIT BREAKER.
- b. WHERE ACCEPTABLE INSTALL SWITCHES UNDER COMMON FACE PLATE.
- c. CONTRACTOR SHALL INSTALL ALL DEVICES THAT COMPLY WITH APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO THE NFPA, UL, ADA.
- d. CONTRACTOR SHALL COMPLY WITH THE NEC OR ANY OTHER CODES HAVING JURISDICTION.
- CONTRACTOR SHALL INCLUDE IN BID ALL COSTS ASSOCIATED WITH THE INTERCOM. SYSTEM WORK. CONTRACTOR SHALL GET PRICE FROM ALL SYSTEMS TO REPAIR EXISTING SYSTEM, SYSTEM INTERCOM AND TO INSTALL AND WIRE NEW SPEAKERS AND STATIONS. REPAIR WORK TO INCLUDE REPLACEMENT OR REPAIR OF SYSTEMS ELECTRONICS, CORRECTING OR REPLACING faulty WIRING AND TROUBLE SHOOTING ENTIRE SYSTEM. ALL SYSTEMS SHALL FIELD VERIFY PROBLEMS WITH EXISTING SYSTEM AND QUESTION SOURCE, AUTHORITIES ABOUT SYSTEM PROBLEM. THE SCOPE OF REPAIR WORK IS THE ENTIRE SYSTEM, LESS THE NEW WORK SHOWN ON THE PLANS, ANY MODIFICATIONS TO THE SYSTEM TO ACCOMMODATE THE NEW WORK, INCLUDING IN THE PLANS.
- THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN BID ALL COSTS ASSOCIATED WITH FIRE ALARM MODIFICATIONS. THIS WORK SHALL INCLUDE POWER EXTENDER PANEL, SMOKE DETECTORS, HORN/STROBES, PULL STATIONS, REMOTE INDICATING LIGHTS AND FIRE ALARM CONTROL UNIT. CONTRACTOR SHALL PROVIDE, INSTALL, PULMUM RATED CABLE, BETWEEN DEVICES SHALL BE INCLUDED IN WORK TO PROVIDE AN OPERATIONAL EXTENSION OF THE EXISTING FIRE ALARM SYSTEM.
- ALIGN ALL WIRING DEVICES IN VERTICAL ALIGNMENT. IF ANY DEVICES ARE FOUND NOT TO BE INSTALLED PER DETAIL CONTRACTOR SHALL RELOCATE AND PAY ALL ASSOCIATED COSTS ASSOCIATED WITH THE RELOCATIONS.
- LIGHTING INDICATED ABOVE EXIT DISCHARGE DOOR IS FOR MEANS OF EGRESS ILLUMINATION PER ICC 1006.1.
- MEANS OF EGRESS TO BE ILLUMINATED AT NOT LESS THAN 1 FOOTCANDLE AT THE FLOOR. CONTRACTOR SHALL PROVIDE AND INSTALL IF NECESSARY ADDITIONAL EMERGENCY FIXTURES IF NECESSARY TO MEET THE REQUIRED READINGS.
- CONTRACTOR SHALL INSTALL ALL DEVICES PER U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT F4R HOUSING ACT AND SHALL COMPLY WITH APPLICABLE CODES.
- PROVIDE FIRE STOP ON ALL PIPING AT WALL PENETRATIONS PER LOCAL CODE REQUIREMENTS. METHOD OF FIRE STOP SHALL MEET WALL RATING. RE-ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED WALLS.
- CONDUIT SHALL BE USED FOR CONDUCTORS WHERE REQUIRED BY N.E.C.
- OUTLETS INSTALLED IN FIRE RATED ASSEMBLIES SHALL BE SEPARATED A MINIMUM HORIZONTAL DISTANCE OF NOT LESS THAN 24".
- CONTRACTOR SHALL CALCULATE VOLTAGE DROP AND SIZE WIRE ACCORDINGLY, PER N.E.C.
- CONTRACTOR SHALL PROVIDE FIRE RATED ENCLOSURES AROUND ALL ROUGH-IN BOXES, PANELS ETC. THAT ARE LOCATED IN FIRE RATED WALLS AND SHALL FIRE RATED CABLE, OPENING IN FIRE RATED ASSEMBLIES PER MANUFACTURERS RECOMMENDATIONS. PER FIRE RATED ASSEMBLIES.
- INSTALL FIRE ALARM DEVICES THAT COMPLY WITH APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO THE, NFPA, UL, ADA, IBC OR ANY OTHER AUTHORITIES HAVING JURISDICTION.
- WHERE MORE THAN ONE SWITCH IS INDICATED ON DRAWINGS SIDE BY SIDE, CONTRACTOR SHALL INSTALL SWITCHES UNDER ONE COMMON FACE PLATE.
- FIRE ALARM CONTRACTOR IS RESPONSIBLE OF TESTING AND VERIFYING THAT THE AUDIBILITY OF THE FIRE ALARM SYSTEM MEETS A MINIMUM OF 5 DBA ABOVE OCCUPANCY AND HORNS WERE REQUIRED TO MAINTAIN MINIMUM LEVELS.
- UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR THE MEDIA RELEASED TO THE ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETED RELEASE FORM AND SIGNATURE. ELECTRONIC FILES WILL BE RELEASED.
- CONTRACTOR SHALL PROVIDE HIS/HER OWN SUPPORTING OF CABLEING FROM STRUCTURE ABOVE, I.E. TEMPERATURE CONTROL WIRING, SECURITY CONTROL WIRING, FIRE ALARM CONTROL WIRING, OR ANY OTHER WIRING CONTAINING VOLTAGE CABLES, RECURTUE AND RE-SUPPORT AT THERE OWN EXPENSE. IF ANY CABLES OR VIDEO CABLEING (CABLES INDICATED ON TECHNOLOGY DRAWINGS) IF CABLES ARE FOUND TO BE SUPPORTED BY THESE CABLES, CONTRACTOR SHALL REPAIR AND/OR REPLACE THEM. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CABLES THAT ARE DAMAGED WHILE EITHER INSTALLING OR REMOVING SUCH CABLES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH DAMAGED SHALL COVER COST TO REPLACE CABLES AT THERE OWN EXPENSE.

ELECTRICAL SYMBOLS

[illegible]

CONSULTANTS:

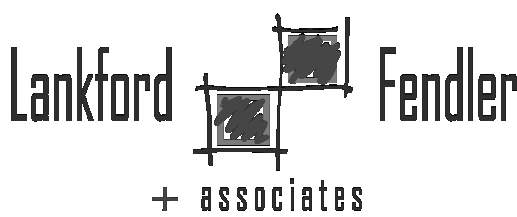


P.O. Box 410295 (816) 561-0959 p
Kansas City, MO 64141 (816) 561-0961 f
ENVIRONMENTAL ENGINEERING

ARCHITECT/ENGINEERS:



108 n. nettleton : bonner springs, ks
913.422.5762 ph : 309.409.9258 fx



1730 Walnut Street 816.221.1411
Kansas City, Missouri 64108 Fax: 816.221.1429
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DRAWING TITLE:

**ELECTRICAL GENERAL NOTES AND
SYMBOLS**

100% MODIFICATION 2 CONSTRUCTION DOCUMENTS

KEVIN INKLEY, ASSOCIATE DIRECTOR

DATE:

PROJECT TITLE:
**RENOVATE RESEARCH
BUILDING 15**

LOCATION:
4801 E. LINWOOD BLVD. KANSAS CITY, MO 64128

DATE:	CHECKED:	DR:
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5/19/2016

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**Department of
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