

RESIDENTIAL ELECTRICAL NOTES:

- NEW RECEPTACLES SHALL BE MOUNTED AND SPACED IN ACCORDANCE TO NEC 2008 210.24 & 210.52
- CONTRACTOR SHALL PROVIDE & INSTALL NEW SMOKE DETECTORS. DETECTORS SHALL BE INTERCONNECTED AND 120V POWERED (WITH BATTERY BACK-UP). MOUNT SMOKE DETECTORS 3" MINIMUM FROM SUPPLY AIR DIFFUSERS, RETURN AIR DIFFUSERS, KITCHEN OPENINGS, OR BATHROOM OPENINGS.
- COORDINATE WITH MECHANICAL DRAWINGS REGARDING THE ELECTRICAL REQUIREMENTS, WIRING, AND LOCATION OF NEW HVAC AND PLUMBING EQUIPMENT.
- ALL RECEPTACLE BRANCH CIRCUITS SPECIFIED IN NEC 2008, ART. 210.52 AND ARE 120V, 15A AND 20A THROUGHOUT THE DWELLING UNIT SHALL BE TAMPER-RESISTANT AS NOTED PER NEC 2008, ART. 406.11
- REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF KITCHEN RECEPTACLES PRIOR TO BEGINNING WORK.
- A MINIMUM OF 50 PERCENT OF LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICIENCY PER FBC ENERGY CONSERVATION SECTION 404.
- ALL LIGHT FIXTURES LOCATED IN SHOWERS SHALL BE VAPOR PROOF/WET LOCATION LISTED AS REQUIRED.

ELECTRICAL DRAWING NOTES

- ALL WORK PERFORMED SHALL BE DONE BY A LICENSED ELECTRICAL CONTRACTOR AND IN A FIRST CLASS WORKMANLIKE MANNER. SAID CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH BY ANY LOCAL ORDINANCE AND/OR GOVERNING AUTHORITIES.
- ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LATEST EDITION NEC AND THE LATEST EDITIONS OF ALL LOCAL CODES, RULES, AND ORDINANCES HAVING JURISDICTION.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK SHOWN AND/OR NOTED ON THE DRAWINGS AND SPECIFICATIONS.
- ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS AND COUNTS AS SHOWN AND/OR NOTED ON THE DRAWINGS. THIS SHALL INCLUDE ANY AND ALL FABRICATIONS REQUIRED PRIOR TO INSTALLATION.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR THE ADVANCED ORDERING OF LONG LEAD ITEMS SO AS NOT TO INTERFERE WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME.
- CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM DATE OF ACCEPTANCE, UNLESS INDICATED OR SPECIFIED OTHERWISE.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO ORIGINAL CONDITIONS ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT AND FURNISHINGS CAUSED DURING PERFORMANCE OF WORK.
- ELECTRICAL CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT UNLESS NOTED OTHERWISE.
- ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC. SHALL BE LISTED FOR THE INTENDED USE, WITH UNDERWRITER'S LABORATORIES, INC. (UL) WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL. AS A MINIMUM, ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS FOR THE TYPE OF EQUIPMENT AND INTENDED USE OF THE FOLLOWING:
A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
B. ILLUMINATING ENGINEERS SOCIETY (IES).
C. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
D. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).
NOTE:
THESE STANDARDS ARE SUBORDINATE TO CODES AND STANDARDS SET BY UL.
- IT IS NOT THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL BE EXPECTED TO PROVIDE ALL ITEMS AND EQUIPMENT NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
- ALL CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT ROUTING SHALL BE DETERMINED IN THE FIELD, UNLESS OTHERWISE NOTED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL THE PROPER NUMBER OF CONDUCTORS IN ALL RACEWAYS AS REQUIRED TO ACCOMPLISH THE PROPER FUNCTIONING OF THE DEVICE OR EQUIPMENT AS SHOWN.
- THE ELECTRICAL CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERFORMED FREE FROM DEBRIS AT ALL TIMES AND SAID AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTING.
- ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THAT CONTRACTOR.
- COORDINATE ALL ELECTRICAL SITE WORK WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- ALL CONDUCTORS SHALL BE IN CONDUITS. ALL CONDUITS SHALL BE INTERMEDIATE (IMC) OR RIGID GALVANIZED STEEL (RGS) EXCEPT THAT: (a) POLYVINYL CHLORIDE (PVC) CONDUITS MAY BE USED IN CONCRETE SLABS AND UNDERGROUND PROVIDED ELBOWS AND RISERS ARE RGS; (b) ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN OR ON WALLS OR CEILING WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP CONDITIONS OR CORROSIVE CONDITIONS; (c) LIQUID-TIGHT FLEXIBLE CONDUIT WHERE REQUIRED; (d) FLEXIBLE METALLIC CONDUIT WHERE REQUIRED IN DRY LOCATIONS; (e) ROMEX CABLE MAY BE USED. ALL CONDUITS IN HAZARDOUS AREAS (PER NEC) SHALL MEET THE REQUIREMENTS OF NEC CHAPTER 5.
- FOR UNDERGROUND ELECTRICAL CONDUITS, PROVIDE PULL BOXES, SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF 360. PULL BOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE. WHERE CONDUITS PASS UNDERNEATH PAVED AREAS THEY SHALL BE RGS. WHERE UNDERGROUND CONDUITS ARE NOT EXPOSED TO MECHANICAL DAMAGE OR ARE NOT UNDER PAVED AREAS, THEY MAY BE SCHEDULE 40 PVC, BUT ALL CONDUIT RISERS SHALL BE RGS. RGS CONDUITS SHALL EXTEND A MINIMUM OF 18" BELOW GRADE.
- APPLY BITUMASTIC COATING TO ALL METALLIC CONDUITS IN SLABS OR UNDERGROUND.
- ALL CONDUCTORS SHALL BE COPPER U.O.N. TYPE THHN OR THWN INSULATION, RATED 75C WET/DRY EXCEPT WHERE OTHERWISE REQUIRED BY U.L. OR CODES UNLESS OTHERWISE NOTED. MINIMUM WIRE SIZE SHALL BE #12 AWG EXCLUDING CONTROL WIRING.
- WIRE WAYS SHALL BE SIZED AS REQUIRED, PER NEC, UNLESS OTHERWISE NOTED.
- ALL ELECTRICAL EQUIPMENT SHALL BE RAIN-TIGHT WHERE EXPOSED TO THE WEATHER. ALL FLEX CONDUITS CONNECTED TO SUCH EQUIPMENT SHALL BE LIQUID-TIGHT.
- CIRCUIT BREAKERS SHALL BE BOLT-ON U.O.I., INVERSE TIME-TYPE (THERMAL-MAGNETIC). TWO AND THREE-POLE CIRCUIT BREAKERS SHALL HAVE COMMON TRIP. ALL PANELBOARDS SHALL HAVE COPPER BUS.
- WHERE CORE DRILLING OF FLOOR/WALLS IS REQUIRED, CONTRACTOR SHALL SEAL OPENINGS WATER-TIGHT AFTER UTILITIES HAVE BEEN INSTALLED. LOCATION OF CORED HOLES SHALL BE COORDINATED WITH LOCATION OF EQUIPMENT IN A MANNER TO BE CLEAN AND FUNCTIONAL. THE CONTRACTOR SHALL INSTALL ONLY ONE CONDUIT PER HOLE AND SEAL THE OPENING AROUND THE CONDUIT AS SPECIFIED.
- PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY PRIOR TO SUBMITTING BID LOCATIONS OF ALL SUCH FIRE RATED PARTITIONS, WALLS, AND STRUCTURAL SLABS.
- BALLASTS SHALL HAVE MIN. POWER FACTOR OF 0.90. BALLASTS FOR METAL HALIDE AND HIGH PRESSURE SODIUM FIXTURES SHALL BE CONSTANT WATTAGE TYPE WITH 5% LAMP WATTS FOR 10% NOMINAL LINE VOLTAGE VARIATION.
- THE EQUIPMENT GROUNDING TERMINAL BARS OF THE NORMAL AND EMERGENCY ELECTRICAL SYSTEM PANELBOARDS SERVING THE SAME BUILDING SHALL BE BONDED TOGETHER WITH AN INSULATED, CONTINUOUS, COPPER CONDUCTOR NOT SMALLER THAN NUMBER 6.
- PROVIDE LAMPS WITH FIXTURES, SEE LUMINAIRE SCHEDULE FOR LAMP TYPE.
- ALL CONNECTIONS TO GROUND RODS & BUILDING STEEL SHALL BE MADE WITH UL APPROVED WELDED CONNECTIONS, UNLESS OTHERWISE NOTED.
- PROVIDE A FUSE HOLDER AND FUSE IN THE PRIMARY SIDE OF EACH UNGROUNDED CONDUCTOR FOR EACH BALLAST (BUSSMAN HEB AND FNQ OR EQUAL), AT THE HAND HOLE OF EACH EXTERIOR POLE MOUNTED LIGHTING FIXTURE OR J-BOX FOR WALL OR GROUND MOUNTED EXTERIOR FIXTURES.
- PROVIDE TEMPORARY ELECTRICAL SERVICE FOR USE BY ALL TRADES DURING CONSTRUCTION AND REMOVE SAME AT COMPLETION OF PROJECT.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH A COMPLETE SET OF AS-BUILT DRAWINGS, SHOWING ALL CHANGES AND DEVIATIONS TO THE ARCHITECT/ENGINEER PRIOR TO COMPLETION OF THE PROJECT.
- PREPARE AND AFFIX A TYPED DIRECTORY TO THE INSIDE COVER OF EACH PANELBOARD INDICATING LOADS SERVED BY EACH CIRCUIT.

ELECTRICAL SYMBOLS LEGEND

NOT ALL SYMBOLS SHOWN ARE FOR THIS PROJECT

- A ← FIXTURE TYPE
- 2X4 RECESSED FIXTURE
- LP24 ← SWITCH POLE TYPE
- PANEL/CIRCUIT NUMBER
- 2X2 RECESSED FIXTURE
- RECESSED DOWNLIGHT
- ⚡ EMERGENCY BATTERY WALL MOUNTED LIGHT FIXTURE
- ⊕ OR ⊖ CEILING OR WALL MOUNTED EXIT SIGNS, CHEVRONS & SHADED AREA DETERMINES THE DIRECTION
- Ⓢ CONTROL SWITCH
D = DIMMER
3 = 3-WAY
LV = LOW VOLTAGE
- Ⓢ_{OS} WALL MOUNTED OCCUPANCY SENSOR/SWITCH
- ⊗ CEILING MOUNTED OCCUPANCY SENSOR
- □ POLE MOUNTED WITH ARM SINGLE LUMINAIRE

ELECTRICAL SYMBOLS LEGEND: POWER

- ⊗ MOTOR
- ⊗ □ MOTOR WITH DISCONNECT
- DISCONNECT
- ⊙ WALL MOUNTED CAPPED OUTLET BOX OR JUNCTION BOX
- Ⓢ RECESSED FLOOR BOX
- Ⓢ ⊕ POWER/DATA JUNCTION BOXES FOR CUBICLE POWER POLES
- Ⓢ Duplex RECEPTACLE
- Ⓢ QUADRAPLEX RECEPTACLE
- Ⓢ SPECIAL RECEPTACLE (208V)
- ▬ PANELBOARD

ELECTRICAL SYMBOLS LEGEND: SYSTEMS

- ▽ TELEPHONE/DATA OUTLET PROVIDE & INSTALL 3/4" EMPTY CONDUIT W/PULLSTRING
- TV CATV OUTLET

ELECTRICAL SYMBOLS LEGEND: FIRE ALARM

- Ⓢ ⊕ CEILING MOUNTED SMOKE DETECTOR

ELECTRICAL SYMBOLS LEGEND: OTHER

- H-24 LABEL OR PANEL-CIRCUIT
- ⊗ LABEL OR KEYED NOTE
- EXISTING TO REMAIN LINETYPE
- EXISTING TO BE REMOVED (DEMO) LINETYPE
- EXISTING TO BE RELOCATED LINETYPE
- NEW LINETYPE

ELECTRICAL SYMBOLS LEGEND: ABBREVIATIONS

- A ABOVE COUNTER
- A.G. ABOVE COUNTER & GFI
- A.F.F. ABOVE FINISHED FLOOR
- B.F.C. BELOW FINISHED CEILING
- B.F.G. BELOW FINISHED GRADE
- CL CENTER LINE
- ECB ENCLOSED CIRCUIT BREAKER
- EM/E EMERGENCY
- G GROUND FAULT INTERRUPTER
- IG ISOLATED GROUND
- M.H. MOUNTING HEIGHT
- N NEW DEVICE
- NL NIGHT LIGHT
- NX NEW LOCATION OF EXISTING FIXTURE
- T.C. TERMINAL CABINET
- T.S. TIME SWITCH
- U.O.N. UNLESS OTHERWISE NOTED
- WP. WEATHER PROOF
- XFMR. TRANSFORMER

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