



**1 ELECTRICAL POWER PLAN LEVEL 1**  
EP2.11 1/8" = 1'-0"

**GENERAL ELECTRICAL NOTES:**

- A. WHERE MULTI-WIRE HOMERUNS ARE INSTALLED, GROUP HOMERUNS WITH THREE HOTS (A, B, AND C PHASE), AND #10 NEUTRAL TO PROVIDE MULTI-WIRE BRANCH CIRCUITS. NO MORE THAN 2 MULTI-WIRE HOMERUNS PER CONDUIT. CONTRACTOR IS REQUIRED TO FURNISH CALCULATIONS PROVING CONDUCTOR DE-RATING HAS BEEN INCORPORATED, INCLUDING CONDUIT FILL PERCENTAGE AND MULTI-CONDUCTOR DE-RATING FOR MULTI-WIRE CIRCUITS. THE NEUTRAL IS CONSIDERED A CURRENT CARRYING CONDUCTOR FOR ALL PHASE CONFIGURATIONS. MULTI-WIRE BRANCH CIRCUITS REQUIRE HANDLE TIES OR GROUPED BY ALL CIRCUITS SHARING A NEUTRAL. REFERENCE CURRENTLY ADOPTED NEC ARTICLE 210.
- B. CONTRACTOR SHALL VERIFY DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL CASEWORK AND MILLWORK ELEVATIONS.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES, AND WIRING CABLING FOR ALL TELEPHONE, DATA, CATV, SECURITY, AND CAMERA OUTLETS. REFER TO DIVISION 16 SPECIFICATIONS FOR ALL WORK REQUIRED.
- D. NEW ELECTRICAL EQUIPMENT LOCATED IN ELECTRICAL ROOMS SHALL BE ARRANGED TO COMPLY WITH LATEST NEC ARTICLE 110.
- E. HVAC AND PLUMBING EQUIPMENT MAY NOT BE LOCATED AS SHOWN ON PLAN. CONTRACTOR SHALL VERIFY EXACT LOCATION OF EQUIPMENT CONNECTIONS WITH OTHER TRADES, INCLUDING ANY CONNECTIONS THAT MAY EXIST OUTSIDE OF THE LIMITS OF WORK SHOWN ON PLAN.
- F. MULTI-WIRE CIRCUITS ARE PROHIBITED FOR COPIERS AND IT EQUIPMENT. PROVIDE A DEDICATED HOT, NEUTRAL, GROUND, AND CONDUIT.
- G. ALL GFCI RECEPTACLES SHALL BE ACCESSIBLE. PROVIDE SEPARATE RECEPTACLE PROTECTED BY "FACELESS GFCI." REQUIRED TO COMPLY WITH CURRENTLY ADOPTED NEC.
- H. CONTRACTOR SHALL PROVIDE PLENUM RATED MATERIAL FOR ALL INFRASTRUCTURE LOCATED IN PLENUMS NOT PROTECTED BY CONDUIT OR ANOTHER APPROVED LISTED FIRE ENCLOSURE.
- I. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. CONTRACTOR MAY PROVIDE NON-TAMPER RESISTANT RECEPTACLES WHERE NOT REQUIRED PER CURRENT NEC ARTICLE 406.
- J. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. EACH GFCI PROTECTED RECEPTACLE SHARING THE SAME CIRCUIT SHALL HAVE ITS OWN RE-SET AND TEST BUTTON.
- K. MINIMIZE ROOF PENETRATIONS. WHERE ABLE, ROUTE ALL CONDUIT FOR ROOF MOUNTED EQUIPMENT THROUGH ROOF CURB. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING NECESSARY WATER PROOFING AROUND ROOF PENETRATIONS WITH ROOFING INSTALLER.
- L. LABEL ALL CIRCUITS AT ALL JUNCTION BOXES AND OUTLETS (AS DEFINED BY NEC) WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES OR ON COVER OF JUNCTION BOX. IF A BOX HAS MULTIPLE CIRCUITS WITHIN, LABEL ALL CIRCUITS.

**ELECTRICAL KEYED NOTES**

- E3.1 ALL RECEPTACLES LOCATED IN BREAKROOM SHALL BE GFCI.
- E3.2 PROVIDE ROUGH IN FOR DOOR RELEASE WITH BACK BOX (WHERE LOCATED IN WALL) AND CONDUIT PATHWAY TO PLENUM FROM CARD READER LOCATIONS AND/OR DOOR FRAME FOR DOOR CONTACT. WHERE 120V POWER IS REQUIRED, CONNECT TO NEAREST CIRCUIT SERVING GENERAL PURPOSE RECEPTACLES. COORDINATE REQUIREMENT WITH FINAL SELECTED EQUIPMENT.
- E3.5 PROVIDE TWO (2) JUNCTION BOXES AT BASE OF WALL. ONE (1) FOR POWER AND ONE (1) FOR DATA CONNECTION TO TENANT FURNITURE SYSTEM. COORDINATE EXACT LOCATION WITH TENANT/ARCHITECT. ELECTRICAL CONTRACTOR SHALL PROVIDE WHIP AS REQUIRED AND MAKE FINAL POWER CONNECTION TO FURNITURE SYSTEM.
- E3.6 PROPOSED LOCATION FOR JOCKEY PUMP CONTROLLER. PROVIDE CONDUIT AND WIRING BETWEEN CONTROLLER AND JOCKEY PUMP.
- E3.10 ALL ELECTRICAL EQUIPMENT IN THIS ROOM IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- E3.11 PROVIDE NOT-XP 1-66-25, 1C LEGRAND CONNECTRAC EXPRESS KIT UNDERFLOOR RACEWAY WITH ALL ACCESSORIES FOR A COMPLETE SYSTEM. COORDINATE WITH MANUFACTURER PRIOR TO INSTALLATION.
- E3.12 PROVIDE STEEL CASE THREAD UNDER CARPET POWER MANAGEMENT TO UNDER TABLE PLUG. PROVIDE FLAT DATA CABLE FOR DATA AND POWER TO SERVE DUPLEX. COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- E3.13 (2) JUNCTION BOXES AT THE BASE OF WALL FOR POWER CONNECTION TO UNDERFLOOR RACEWAY. PROVIDE CONNECTRAC AAC-WC-20-AL-20" VERTICAL WALL CHANNEL. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN. DATA JUNCTION BOX SHALL BE 4".
- E3.15 PROVIDE WIREMOLD POWER POLE R650TC-E10 AND MAKE FINAL CONNECTION TO PREWIRED FURNITURE. PROVIDE KNOCKOUTS AND HARDWARE AS NEEDED. VERIFY COLOR AND EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

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Date	Description
05-17-24	ISSUE FOR PERMIT, PRICING, AND CONSTRUCTION

Seal / Signature



Project Name  
**Woodlands Township - Office Renovation**

Project Number  
**02.9171.000**

Description  
**ELECTRICAL POWER PLAN LEVEL 1**

Scale  
As indicated

**EP2.11**