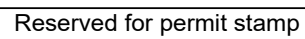


ELECTRICAL GENERAL NOTES

<p>1. THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND THE SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE SHOWN WITH INTENT. THE CONTRACTOR SHALL VISIT THE PROJECT TO OBTAIN RELEVANT DOCUMENTS THAT ARE SIMILAR WITH THE TYPE OF CONNECTION AND WORK TO BE DONE. SHOULD ANY DISCREPANCY, OMISSION, OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY BY LETTER. NO CORRECTIONS OR CHANGES WILL BE ISSUED IN A PRE-BID ADDENDUM OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIERS SHALL BE RESPONSIBLE FOR THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS INCLUDING OF THE ORIGINAL BID. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST EACH SYSTEM TO VERIFY IT MEETS ALL REQUIREMENTS. IF ANY COMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE PRIOR TO PROJECT CLOSEOUT.</p> <p>2. THE ARCHITECTURAL, MECHANICAL, AND WATER FEATURE PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE ELECTRICAL SHOP DRAWING SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED ANCHOR DIMENSION ON THE PLANS.</p> <p>3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC.</p> <p>4. THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MOST CURRENT LOCAL AND NATIONAL ELECTRICAL CODES. ANY TIME DURING OR AFTER COMPLETION SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THESE CODES LISTED ABOVE, IT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.</p> <p>5. WHERE A RACEWAY ENTERS A BUILDING OR STRUCTURE FROM THE OUTSIDE, IT SHALL BE SEALED.</p> <p>6. ALL ELECTRICAL EQUIPMENT THAT IS LIKELY TO REQUIRE ADJUSTMENT, SERVICING OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD OR FACTORY LABELED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE LABEL SHALL ALSO CONTAIN THE NOMINAL AVAILABLE FAULT CURRENT AND THE DATE THE FAULT CURRENT CALCULATIONS WERE PERFORMED.</p> <p>7. ALL PANELBOARDS AND SWITCHBOARDS SHALL BE PERMANENTLY MARKED TO INDICATE EACH EQUIPMENT OR EQUIPMENT WHERE THEIR POWER ORIGINS ARE PROVIDED BY THE EC'S. THE CONTRACTOR SHALL REVIEW AND LABEL ALL ELECTRICAL EQUIPMENT TO IDENTIFY THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND CHARACTERISTICS OF THE EQUIPMENT.</p> <p>8. THE EC SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE EC SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.</p> <p>9. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, NOT INDICATING THE ROUTING OF THE CABLES. THE EC SHALL BE RESPONSIBLE FOR VERIFYING THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH OUTDOCK, PUMP, EQUIPMENT, BUILDING, ELECTRICAL, MECHANICAL, AND OTHER TRADES.</p> <p>10. THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL DEVICE, ETC. A DISTANCE OF 10' WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.</p> <p>11. THE EC SHALL SECURE EVERY CONDUIT AND TROUGH TO THE STRUCTURE AS IT SET IN PLACE, USING MOUNTING STANDARDS METHODS AND PRACTICES. TO ASSURE ALL DEVICES ARE RIDGELY ATTACHED TO THE STRUCTURE, THE CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANDS, ETC. DESIGNED FOR THE APPLICATION.</p> <p>12. MINIMUM SIZE CONDUIT SHALL BE #2 AWG UNO, CONDUIT INSTALLED WITHIN THE BUILDING IN DRY LOCATIONS WITH WALL, CEILING, OR EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE SHALL BE ENT WITH STEEL RET. RET SCREW FITTINGS. IN EXTERIOR LOCATIONS THE CONDUIT SHALL BE ENT WITH COMPRESSION GLAND AND TYPE FITTINGS. UNDERGROUND CONDUIT SHALL BE PVC (#3) 40' WITH GRC BUSHINGS AND ENT WITH RET SCREW FITTINGS. THE CONTRACTOR SHALL MAINTAIN CONTACT WITH THE SOIL.</p> <p>13. FLEXIBLE CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINIAL.</p> <p>14. NOTIFICATION TO ALTERATIONS TO THE PROJECT SHALL BE IN WRITING. LENGTHS OF FLEXIBLE OR SAE-LITE CONDUIT SHALL NOT BE GREATER THAN 24".</p> <p>15. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 100KG RATED NYLON PULL ROD.</p>	<p>CONDUCTORS SHALL BE COPPER, 80VAC RATED, TYPE THHN/THWN-2 UNO. CONDUCTORS UP TO 5 #10 SHALL BE SOLID AND CONDUCTORS #8 OR LARGER SHALL BE STRANDED.</p> <p>16. EC SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FOREIGN PARTICLES, FOREIGN MATTER, PAINT, DIRT, GREASE, AND UNDESIRED LABELS OR REMAINS OF DEBRIS FROM THE ELECTRICAL SYSTEM. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISES.</p> <p>17. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED WITH FIRE STOPPING, IE. 3M BRAND CALK, PUTTY, STRIP AND SHEET FORMS, DOWN CORNERS 3/4"X4"X4" SILICONE RTV FILLING.</p> <p>20. COORDINATE LOCATION OF WALL MOUNTED DEVICES WITH CABINETRY AND OTHER WALL MOUNTED DEVICES. COORDINATE THE LOCATION OF ALL ELECTRICAL DISTRIBUTION SYSTEMS AND ANY DEVICES THAT NEED TO BE RELOCATED MUST BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL DESIGNER IMMEDIATELY BY LETTER.</p> <p>21. ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE WORKING CLEARANCES BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS AND SHALL MOVE THE PANELS IF REFLECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.</p> <p>22. WIRING DEVICES SHALL BE WHITE OR GRAY IN COLOR WITH METAL COVER PLATES. EXTERIOR OUTLETS SHALL HAVE CAST COVERS WITH FLIP TYPE LIDS UNO.</p> <p>23. EC SHALL COORDINATE WITH EQUIPMENT SUPPLIERS ON THE EXACT LOCATIONS OF ALL EQUIPMENT AND ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN. THE EC SHALL MAKE THE FINAL WIRING CONNECTIONS TO THE EQUIPMENT UNLESS OTHERWISE DIRECTED BY THE EQUIPMENT SUPPLIER. OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER CHARACTERISTICS ARE PROVIDED, ANY INCORRECT WIRING OR DEVICES INSTALLED BY THE EC WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE EC'S EXPENSE. PROVIDE COPIES OF ALL WIRING DIAGRAMS WITH EACH COPY OF EQUIPMENT AND ADDITIONAL COPIES WITH THE OPERATION AND MAINTENANCE MANUALS.</p> <p>24. ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO DUCTS, PIPING, OR EQUIPMENT FORMER TO THE OPERATION OF THE ELECTRICAL SYSTEM SHALL BE INSTALLED OR NOT TO BE ALLOWED IN, ENTER, OR PASS THROUGH ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER FLOOR PLANS.</p> <p>25. ELECTRICAL CONTRACTOR SHALL REVIEW ALL ARCHITECT'S ELEVATIONS, SECTIONS AND FLOOR PLANS PRIOR TO ROUGH-IN OF ELECTRICAL DEVICE JUNCTION BOXES.</p> <p>26. VERIFY EXACT LOCATIONS OF ALL EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN. REFER TO THE MECHANICAL SHEETS FOR THE EXACT LOCATION OF THE MECHANICAL EQUIPMENT.</p> <p>27. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-IN. THE CONTRACTOR SHALL REVIEW ALL MECHANICAL DRAWINGS AND SHOP DRAWINGS TO VERIFY AND MAINTAIN REQUIRED CLEARANCES.</p> <p>28. CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS FROM NAMEPLATE RATINGS OF EACH PIECE OF EQUIPMENT REQUIRING POWER. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY BY LETTER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING AS-MADE OR MANUFACTURER WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY INFORMATION AND MATERIALS COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT INFORMATION AND MATERIALS WITH THE MANUFACTURER'S INFORMATION FURNISHED UNDER OTHER DIVISIONS WITH APPROVED SHOP DRAWINGS PRIOR TO BEGINNING ROUGH-IN.</p> <p>29. DETAILS ARE SHOWN ON DIFFERENT SHEETS. THE CONTRACTOR SHALL REFER TO THOSE DETAILS WHICH APPLY AND NOT CALL OUT TO DETAILS NOT APPLICABLE TO THE PROJECT.</p> <p>30. USE POPEY ANCHORS TO SUPPORT THE ELECTRICAL EQUIPMENT. EXPANSION ANCHOR BOLTS ARE NOT ACCEPTED.</p> <p>31. AT THE END OF JOB, PROVIDE BANK COVER PLATES TO MATCH THE OTHER COVER PLATES FOR ALL JUNCTION BOXES WHERE DEVICES HAVE NOT YET BEEN INSTALLED.</p> <p>32. ALL MATERIALS USED IN THIS INSTALLATION SHALL BE U.L. APPROVED OR EQUIVALENT AND NEW.</p> <p>33. THE ELECTRICAL CONTRACTOR SHALL TERMINATE THE ELECTRICAL CONNECTIONS TO ALL THE EQUIPMENT BY PROVIDING THE NECESSARY MALE/FEMALE CONNECTOR, RECEPTACLE, PLUG, ETC.</p> <p>34. CONTRACTOR TO ENSURE THAT ALL AREAS OUTSIDE OF CONSTRUCTION AREA ARE KEPT CLEAN AND FREE OF DEBRIS AND TRASH.</p> <p>35. ANALOG SIGNAL WIRE SHALL BE 2 CONDUCTOR 18AWG TWISTED SHIELDED WIRE WITH SHIELD PIGTAIL FOR NON-LOOP POWERED INSTRUMENTS AND SIGNALS INSTRUMENTS THAT REQUIRE 24VDC LOOP POWER SHALL HAVE MINIMUM 3 CONDUCTORS WITH SHIELD AND DRAIN WIRE.</p> <p>36. DIGITAL CONTROL SIGNAL WIRE MAY BE 18AWG MULTICONDUCTOR CABLE WITH WATER TIGHT JACKS.</p>
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principal architect CH20

revisions: _____

revisions: _____

DRAFTING STATUS

IFC SET 2 OF 3

CONCLUSIONS

ELECTRICIAN

GENERAL NOTES

WE - 0.00

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