

GENERAL ELECTRICAL NOTES:

- 1. "A1/E-501" INDICATES DETAIL NUMBER/SHEET NUMBER.
2. "[DP/1]" INDICATES MATERIAL LIST ITEM IN HEX SYMBOL.
3. "E" INDICATES KEY NOTE USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET IT IS SHOWN ON.
4. "NL" INDICATES FIXTURE IS UNSWITCHED FOR NIGHT LIGHT.
5. ALL ELECTRICAL CONDUCTORS SHALL BE COPPER, U.O.N.
6. [Diagram showing wire types: 1 INDICATES NUMBER OF WIRES IN CONDUIT, 2 ISOLATED GROUND, 3 GROUND WIRE, 4 NEUTRAL WIRE, 5 PHASE WIRE]
7. ABBREVIATION KEY: EC ELECTRICAL CONTRACTOR, GC GENERAL CONTRACTOR, MC MECHANICAL CONTRACTOR, C CONDUIT, TYP TYPICAL, UG UNDERGROUND, #* MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTERLINE

ELECTRICAL INSTALLATION NOTES:

- 1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE A.D.A.A.G. (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES)
2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. WHERE COMMON NEUTRAL IS USED FOR TWO OR THREE CIRCUITS, EACH SHALL ORIGINATE FROM DIFFERENT PHASE LEGS OF THE PANEL BUS. COMMON NEUTRALS SHALL NOT BE USED FOR COMPUTER OR OFFICE RECEPTACLES. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
3. CIRCUIT SERVING EXIT FIXTURES IN SALES AREA SHALL BE RUN IN SEPARATE CONDUIT FROM ALL OTHER CIRCUITS. INSTALL A MANUFACTURER'S "LOCK-ON" DEVICE ON CIRCUIT BREAKER FEEDING EMERGENCY EQUIPMENT.
4. A #12 GREEN INSULATED GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS TO ALL RECEPTACLES.
5. FLUSH MOUNT ALL TOGGLE SWITCHES AT 4" FROM FINISHED FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.
6. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TELECOMMUNICATION OUTLETS AT HEIGHT FROM FINISHED FLOOR TO CENTERLINE AS NOTED ON PLANS.
7. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS PRIOR TO ROUGH-IN. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
8. BOXES LOCATED ON OPPOSITE SIDES OF NON-FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY (IN DIFFERENT STUD SPACES). "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
9. ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO AVOID INTERFERENCE WITH THE OPERATION OF AND/OR ACCESS TO OTHER EQUIPMENT. ALL MOUNTING OF ELECTRICAL ITEMS ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR AND OWNER.
10. ALL FINAL ELECTRICAL CONNECTIONS TO MOTORS AND EQUIPMENT SUBJECT TO VIBRATION SHALL BE MADE WITH FLEXIBLE METAL CONDUIT. USE LIQUIDTIGHT CONDUIT AND FITTINGS WHERE SUBJECT TO MOISTURE. ROUTE GROUND WIRE FROM CIRCUIT GROUND TO MOTOR GROUND THROUGH FLEXIBLE CONDUIT.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUIT PENETRATIONS THROUGH BUILDING WALLS SHALL BE GROUDED OR SEALED CLOSED. WHERE CONDUIT PENETRATES WALLS AND FLOORS SEAL WITH A U.L. LISTED SEALANT. SEAL PENETRATIONS WITH INTUMESCENT CAULK, PUTTY, OR SHEET INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OR THROUGH-PENETRATION FIRESTOPS AS MANUFACTURED BY 3M, THOMAS & BETTS, OR DUPONT.
12. ALL CONDUIT SHALL BE CONCEALED IN WALLS, PARTITIONS OR ABOVE CEILING, EXCEPT WHERE OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT MAY BE EXPOSED IN BACKROOM TO DISTRIBUTION PANEL ONLY IN VERTICAL RUNS. IF NECESSARY, ALL VERTICAL CONDUIT SHALL BE RUN JUST BELOW ROOF DECK AT BOTTOM OF UPPER FLOOR OR ROOF JOISTS TO PREVENT POSSIBLE DAMAGE FROM SLOTTING OF JOISTS ABOVE. COORDINATE LOCATIONS IN SALES AREA WITH MECHANICAL PLANS. ALL CONDUIT SHALL BE PARALLEL AND/OR PERPENDICULAR TO THE BUILDING STRUCTURE AND WALLS. CONDUIT SHALL NOT BE INSTALLED IN OR UNDER THE SLAB UNLESS SPECIFICALLY SO NOTED OR APPROVED BY ALDI REPRESENTATIVE.
13. CONTRACTOR SHALL INSTALL AT EACH SERVICE ENTRANCE A PERMANENT DIRECTORY ACCORDING TO ARTICLE 230.2(E), OF THE NATIONAL ELECTRICAL CODE.
14. ALL UPS POWERED RECEPTACLES SHALL BE LABELED ON DEVICE RECEPTACLE PLATE "UPS-#" WHERE # = CIRCUIT NUMBER.
15. ELECTRICAL CONDUIT SHALL PROVIDE ARC FLASH WARNING LABELS FOR ALL CONNECTIONS PER NFPA AND OSHA STANDARDS.

TESTING AND LABELING

ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE U.L. LISTED BY NORTH CAROLINA APPROVED THIRD PARTY TESTING AGENCY (MECKLENBURG COUNTY CODE ENFORCEMENT).

MATERIAL LIST table with columns: ITEM, SYMBOL, DESCRIPTION, APPR'D MFG. Includes items 1 through 25 detailing switches, receptacles, and disconnects.

Table with columns: ITEM, SYMBOL, DESCRIPTION, APPR'D MFG. Includes items 26 through 50 detailing manual switches, buzzers, transformers, and power supplies.

Issued: Date: table with rows A (Permit Set), B (Client Review Set), C (Bid Set), D (Revisions:), and 1-9 (Revisions:).

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Seal



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Project Name & Location:

Material List & Notes
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