

GENERAL SPECIFICATIONS:

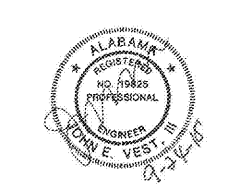
DIVISION 26 – ELECTRICAL  
 PART 1 GENERAL  
 CONDITIONS OF THE CONTRACT AND DIVISION 1 APPLY TO THIS DIVISION.  
 SPECIFICATIONS FOR DIVISION 26 – ELECTRICAL ARE HEREBY INCLUDED IN THIS DIVISION.

- 1.01 DESCRIPTION
- A. GENERAL: PROVIDE LABOR, MATERIALS, APPARATUS, TOOLS, EQUIPMENT, TRANSPORTATION, TEMPORARY CONSTRUCTION, AND SERVICES REQUIRED FOR A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM, AS SHOWN ON THE DRAWINGS OR REASONABLY INFERRED. THE WORK SHALL INCLUDE MATERIALS, APPLIANCES, AND APPARATUS WHETHER OR NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS, BUT REQUIRED FOR EACH SYSTEM'S FUNCTIONING. IN ADDITION IT SHALL INCLUDE CONNECTION, INTER-CONNECTION, AND POWER FOR ELECTRICAL EQUIPMENT FURNISHED BY OTHERS.
- B. CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND FOOD SERVICE DRAWINGS AND SPECIFICATIONS. PROVIDE ALL ELECTRICAL CONNECTIONS, BREAKERS, WIRE, AND CONDUIT FOR EQUIPMENT FURNISHED UNDER OTHER DIVISIONS TO MAKE A COMPLETE AND WORKING SYSTEM, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:  
 1. MECHANICAL STARTERS (WITH HOA), SWITCHES, MOTOR CONNECTIONS AND JUNCTION BOXES.  
 2. KITCHEN EQUIPMENT FINAL CONNECTION TO ALL COOKING EQUIPMENT, FANS, HOODS, REFRIGERATION EQUIPMENT, WATER HEATERS, AND SERVING EQUIPMENT. COORDINATE FIRE SUPPRESSION SYSTEM AND PROVIDE EQUIPMENT SHUTDOWN AS REQUIRED.  
 3. COORDINATE THE EXACT VOLTAGE, PHASE, AND AMPERAGE REQUIREMENTS WITH THE EQUIPMENT SUPPLIER AND PROVIDE WIRE, CONDUIT, AND DEVICES SIZED IN ACCORDANCE WITH THE NEC FOR THE APPLICATION.
- 1.02 SUMMARY OF WORK:
- A. PROVIDE COMPLETE INSTALLATION OF ELECTRIC BRANCH CIRCUIT WIRING, WIRING DEVICES, LIGHTING FIXTURES, LAMPS, AND OTHER WORK INDICATED ON THE DRAWINGS.
- B. PROVIDE POWER SUPPLY WIRING TO ALL MOTORS INCLUDING DISCONNECT SWITCHES AND MANUAL STARTERS WHERE REQUIRED.
- C. CONTROL WIRING FOR MECHANICAL EQUIPMENT AS INDICATED IN RESPECTIVE DIVISIONS OF THE SPECIFICATIONS AND AS SHOWN ON DRAWINGS.
- D. EMPTY RACEWAY SYSTEMS AS MAY BE REQUIRED BY OTHERS AND AS NOTED OR SHOWN ON OTHER DRAWINGS.
- 1.03 WORK BY OTHERS
- A. PAINTING OF ELECTRICAL WORK AND EQUIPMENT INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE BY THE GENERAL CONTRACTOR.
- B. OPENINGS, RECESSES, FURRING, AND OTHER ARCHITECTURAL WORK AS REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL EQUIPMENT SHALL BE BY THE GENERAL CONTRACTOR.
- C. SPECIFIC ITEMS ON DRAWINGS IDENTIFIED AS NOT IN CONTRACT (NIC) ARE PROVIDED BY OTHERS. ITEMS IDENTIFIED AS FURNISHED BY OTHERS SHALL BE INSTALLED BY THE CONTRACTOR.
- 1.05 REGULATORY REQUIREMENTS
- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES AND AMENDMENTS.
- B. FURNISH PRODUCTS LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES, INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND SHOWN.
- C. ALL WORK SHALL MEET THE STANDARDS SET FORTH IN THE NECA "STANDARD OF INSTALLATION".
- PART 2 BASIC MATERIALS AND METHODS
- 2.01 RACEWAYS AND FITTINGS
- A. ALL WIRING SHALL BE IN ELECTRICAL METALLIC TUBING (EMT) CONDUIT UNLESS SHOWN OTHERWISE ON DRAWINGS.
- CONDUIT, IN GENERAL, SHALL BE CONCEALED IN ALL FINISHED AREAS.
  - CONDUIT SIZE SHALL BE AS SHOWN ON THE DRAWINGS. SIZE PER NEC IF NOT SHOWN (MINIMUM 3/4").
  - CONDUIT CONNECTIONS TO BOXES OR SHEET METAL SHALL BE MADE WITH LOCKNUTS OR BOX CONNECTION MADE TIGHT AND AS ASSURE EFFECTIVE ELECTRICAL CONTINUITY.
  - OUTLET AND JUNCTION BOXES, GENERALLY SHALL BE OF GAUGE GALVANIZED STEEL, 1-1/2" MINIMUM DEPTH. BOXES SUPPORTING LIGHTING FIXTURES SHALL BE SUPPLIED WITH FIXTURE STUD. LEAVE NO UNUSED OPENINGS. BOXES TO BE AS MANUFACTURED BY STEEL CITY, HUBBELL, OR APPROVED EQUAL.
- 2.02 CONDUCTORS
- A. UNLESS SPECIFICALLY INDICATED ON DRAWINGS OR HEREIN, CONDUCTORS SHALL BE SINGLE CONDUCTOR, COPPER, INSULATED FOR 600 VOLTS, MANUFACTURER'S STANDARD PRODUCT, AND MARKED AS REQUIRED BY NEC.
- SERVICE CONDUCTOR TO BE THHN/THWN.
  - BRANCH CIRCUITS AND FEEDERS 8 AWG AND SMALLER SHALL BE ALL TYPE THHN, THWN, XHHW.
  - WIRE 8 AWG OR LARGER SHALL BE STRANDED. WIRE 10 AWG AND SMALLER SHALL BE SOLID.
  - MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE TO BE 12 AWG. LINE VOLTAGE CONTROL WIRING MAY BE 14 AWG WHERE PROPERLY PROTECTED BY AN OVERCURRENT DEVICE.
  - LOW VOLTAGE CONTROL (THERMOSTAT, ETC.) CIRCUITS SHALL UTILIZE 18 AWG, 600 VOLT, MULTI-CONDUCTOR COPPER CABLE, UNLESS NOTED OTHERWISE.
  - MAKE SPLICES AND TERMINATIONS ONLY IN ACCESSIBLE BOXES, WIREWAYS, CABINETS, OR FIXTURES.

- 2.03 ELECTRICAL SUPPORTING DEVICES
- SINGLE CONDUIT RUNS SHALL BE SUPPORTED BY ONE HOLE ZINC-COATED CONDUIT STRAP SIMILAR TO APPLETON SL SERIES OR CONDUIT HANGERS SIMILAR TO APPLETON HxxxWB OR Hxxx-SWB SERIES.
  - MULTIPLE HORIZONTAL CONDUIT RUNS SHALL BE SUPPORTED ON TRAPEZE TYPE HANGERS CONSISTING OF STRUCTURAL SUPPORT EQUAL TO UNISTRUT 1-5/8" X 1-5/8" P1000 SERIES WITH TWO 3/8" ZINC-COATED RODS. SECURE CONDUITS TO SUPPORT WITH UNISTRUT CLAMPS.
- 2.04 GROUNDING SYSTEM
- EXCEPT AS NOTED OTHERWISE, THE COMPLETE ELECTRICAL SYSTEM SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED IN ACCORDANCE WITH ALL NEC REQUIREMENTS, WHETHER OR NOT SUCH CONNECTIONS ARE SPECIFICALLY SHOWN OR SPECIFIED.
  - ALL RACEWAYS SERVING NON-LIGHTING BRANCH CIRCUITS SHALL INCLUDE A SEPARATE GREEN INSULATED GROUNDING CONDUCTOR.
  - BONDING SHALL BE PROVIDED WHEN REQUIRED TO ASSURE ELECTRICAL CONTINUITY.
- 2.05 ELECTRICAL DISTRIBUTION SYSTEM
- BRANCH CIRCUITS: WHERE BRANCH CIRCUITS ARE EXPOSED, THEY SHALL BE RUN PARALLEL WITH THE BUILDING WALLS, CEILINGS, AND FLOORS.
  - CONCEALED CONDUIT SHALL BE RUN BY THE SHORTEST BOX TO BOX ROUTE, AVOIDING CONFLICTS WITH OTHER TRADES.
  - ALL PANELBOARDS AFFECTED SHALL HAVE A TYPED CIRCUIT DIRECTORY POSTED ON THE INSIDE OF THE PANEL DOOR. NEW BRANCH CIRCUIT BREAKERS SHALL BE PROVIDED IN EXISTING PANELBOARDS AS REQUIRED. NEW BREAKERS SHALL BE BY THE SAME MANUFACTURER.
- 2.06 WIRING DEVICES
- WIRING DEVICES SHALL BE EQUAL IN QUALITY, FUNCTION, AND GENERAL APPEARANCE TO THE FOLLOWING:
    - FLUSH WALL SWITCHES: 20A, 120/277V, SPECIFICATION GRADE, COORDINATE COLOR; HUBBELL 1221-1 OR APPROVED EQUAL FOR SINGLE POLE. FURNISH 2-POLE, 3-WAY, ETC., AS REQUIRED, SAME SERIES.
    - WALL RECEPTACLES: 20A, 125V, 2P, 3W, GROUNDING WHITE, NEMA 5-20R SPECIFICATION GRADE; HUBBELL 5262-1 OR APPROVED EQUAL. RECEPTACLES SHALL BE OF THE TYPE AS INDICATED ON DRAWINGS.
    - DIMMER SWITCHES SHALL BE VERTICAL SLIDE CONTROL TYPE WITH FACEPLATE, PRESET, ON-OFF SWITCH, AND 1000VA TYPE. OTHERWISE SHOWN ON THE PLANS. DIMMER SHALL BE HUBBELL MODEL AS101/AS11 OR APPROVED EQUAL OR AS SHOWN ON THE PLANS.
    - DEVICE COVERPLATE SHALL BE STEEL.
- 2.07 LIGHTING FIXTURES
- CONTRACTOR SHALL FURNISH ALL LIGHTING FIXTURES COMPLETE WITH LAMPS AND MOUNTING ACCESSORIES AS SHOWN ON FIXTURE SCHEDULE. INSTALL EACH FIXTURE AND PLACE IT IN OPERATION UNLESS SHOWN OTHERWISE ON DRAWINGS OR STATED HEREIN. FRAMES AND TRIM SHALL BE APPROPRIATE FOR CEILING FINISH.
- 2.08 SAFETY AND DISCONNECT SWITCHES
- SAFETY AND DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, QUICK-MAKE, QUICK-BREAK FUSED WITH RATINGS AND SIZES AS NOTED ON PLANS AND REQUIRED BY CODES. LUG CONNECTIONS SHALL BE 75°C RATED.
  - SWITCHES SHALL BE WEATHERPROOF IN OUTDOOR LOCATIONS OR AS REQUIRED BY LOCAL CODES. DISCONNECT SWITCHES THAT ARE INSTALLED AT HVAC EQUIPMENT SHALL BE FUSED IN ACCORDANCE WITH THE EQUIPMENT NAMEPLATE AND MANUFACTURER'S REQUIREMENT PER THE LATEST EDITION OF THE NEC, STATE AND LOCAL CODES.
  - MANUAL MOTOR STARTERS WITHOUT OVERLOAD PROTECTION HEATERS SHALL BE USED AS A DISCONNECTING MEANS ONLY WHERE INDICATED ON DRAWINGS FOR MOTORS LESS THAN 1-1/2 HP AT 120 VOLTS AND 2 HP AT 208 VOLTS THAT DO NOT REQUIRE AUXILIARY CONTROL.
  - MANUFACTURER: SQUARE D, GE, SIEMENS, EATON. NO SUBSTITUTIONS.
  - FUSES SHALL BE BUSSMANN CURRENT LIMITING, TIME DELAY, TYPE LPS-RK OR TYPE KRP-C AS REQUIRED.
- 2.09 PANELBOARDS (NEW, IF REQUIRED)
- ALL PANELBOARDS SHALL BE FACTORY ASSEMBLED WITH BOLTED CIRCUIT BREAKERS, SOLID COPPER BUSSING, FULLY SIZED COPPER NEUTRAL, 100% GROUND BUSS, AND OVERALL HINGED AND LOCKABLE DOOR. ALL CIRCUIT BREAKERS SHALL BE QUICK-MAKE AND QUICK-BREAK DESIGN, THERMAL-MAGNETIC, TRIP FREE, AND TRIP-INDICATING. ALL PANELS SHALL BE DEAD FRONT AND FLUSH OR SURFACE MOUNTED AS SHOWN ON THE PLANS. ALL LIGHTING BRANCH CIRCUIT BREAKERS SHALL BE SWITCHING DUTY RATED AND LABELED "SWD".
  - ALL PANELBOARDS PHASE AMPERAGE SHALL BE BALANCED TO WITHIN 10 PERCENT MAX. TO MIN. BALANCE NON-LIGHTING BRANCH CIRCUITS AS REQUIRED AND NOTE CHANGES ON RECORD DRAWINGS.
  - ALL LUG CONNECTIONS TO BE 75°C RATED.
  - MANUFACTURER: SQUARE D, GE, SIEMENS, EATON. NO SUBSTITUTIONS.

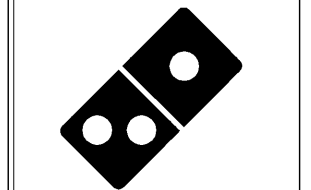
- 2.10 TELEPHONE AND DATA WIRING
- PROVIDE A SYSTEM OF CONDUIT RACEWAYS, OUTLET BOXES, PULL WIRES, AND TERMINAL BOARDS AS SHOWN ON THE PLANS. TELEPHONE SWITCHING APPARATUS, INSTRUMENTS, MISCELLANEOUS EQUIPMENT, AND APPURTENANCES ARE NOT PART OF THIS CONTRACT (NIC) AND WILL BE PROVIDED BY THE OWNER.
  - OUTLET BOXES SHALL BE 4" SQUARE (MIN) WITH SINGLE DEVICE COVER AND TELEPHONE PLATE
- 2.11 FIRE ALARM
- MANUAL PULL STATION SHALL BE FIRELITE MODEL BG12LX, BG12 (IF REQUIRED)
  - FIRE ALARM INDICATING DEVICES SHALL BE HORN/STROBE, WHEELOCK AS SERIES, MT SERIES, AND RSS SERIES (IF REQUIRED).
  - DUCT SMOKE DETECTOR SHALL BE SYSTEM SENSORY MODEL DH100ACDLP. INCLUDED WITH EACH DETECTOR SHALL BE ONE REMOTE INDICATOR/TEST SWITCH. SYSTEM SENSORY MODELS ST5 OR ST10. INCLUDED SHALL BE ONE END OF LINE POWER SUPERVISION RELAY, SENSORY NIGHT MARKER, 160150 FOR EACH ZONE OF DETECTORS.
  - THE FIRE-SUPPRESSION SYSTEM CONTRACTOR SHALL PROVIDE WATERFLOW AND VALVE TAMPER SWITCHES.
- END OF SPECIFICATIONS

Order Plans



CLIENT PROJECT # 5879  
 ARCHITECTURAL PROJECT NO.: 385-071  
 DRAWN BY: DJA  
 CHECKED BY: JSR

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NO.	REVISIONS	DATE

PLANNING REVIEW ISSUE DATE: N/A  
 CLIENT REVIEW ISSUE DATE: 09/13/2018  
 LANDLORD REVIEW ISSUE DATE: 09/13/2018  
 BID ISSUE DATE: 09/24/2018  
 HEALTH DEPT. REVIEW ISSUE DATE: 09/24/2018  
 BUILDING REVIEW ISSUE DATE: 09/24/2018  
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