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DIVISION 16000 - ELECTRICAL SPECIFICATIONS

- 1. GENERAL
A. PROVIDE EQUIPMENT, MATERIALS, LABOR, SUPERVISION AND SERVICES NECESSARY FOR OR INCIDENTAL TO INSTALLATION OF COMPLETE AND OPERATING ELECTRICAL SYSTEM AS SHOWN OR INDICATED ON DRAWINGS OR SPECIFIED.
2. EXCAVATION AND BACKFILLING
A. PERFORM EXCAVATION AND BACK FILLING IN ACCORDANCE WITH PROCEDURES AND USE MATERIALS AS DESCRIBED IN SITE WORK.
3. MANUALS
A. UPON COMPLETION OF WORK, PROVIDE TO ARCHITECT FOR DELIVERY TO OWNER TWO COPIES OF BOUND MANUAL OR MANUALS CONTAINING DATA AND DESCRIPTIONS OF WIRING DEVICES, LIGHTING FIXTURES, PANEL BOARDS, AND OTHER SPECIAL SYSTEMS AND EQUIPMENT FURNISHED OR INSTALLED UNDER DIVISION 16.
4. INSPECTIONS AND TESTS
A. OBTAIN TIMELY INSPECTIONS OF INSTALLATION BY CONSTITUTED AUTHORITIES. REMEDY DEFICIENCIES TO SATISFACTION OF INSPECTION AUTHORITY.
5. RECORD DRAWINGS (CONTINUED)
C. SHOW IN RECORD DRAWINGS, DIMENSIONS ACCURATE TO WITHIN ONE INCH, BOTH HORIZONTALLY AND BY VERTICAL ELEVATION, CENTERLINE OF EACH RUN OF ITEMS, SUCH AS SLEEVES AND CONDUIT BELOW GRADE, IN WALLS, OR IN CONCRETE SLAB. SURFACE MOUNTED DEVICES AND EQUIPMENT ARE TO REFLECT THEIR EXACT LOCATION.
6. CODE COMPLIANCE
A. ELECTRICAL WORK TO CONFORM WITH NATIONAL ELECTRICAL CODE AND APPLICABLE STATUTES, ORDINANCES, CODES AND REGULATIONS OF FEDERAL, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION IN EFFECT ON DATE BIDS ARE RECEIVED.
7. RACEWAYS
A. PROVIDE COMPLETE RACEWAY SYSTEM FOR WIRING UNLESS SPECIFICALLY NOTED OTHERWISE. THIS INCLUDES, BUT IS NOT LIMITED TO, BRANCH CIRCUIT WIRING, CONTROL WIRING, AND AUXILIARY SYSTEMS WIRING, UNLESS SPECIFIED TO CONTRARY HEREIN OR ON DRAWINGS. PROVIDE ADEQUATE AND STURDY SUPPORT FOR RACEWAY SYSTEM. INSTALL NYLON CORD IN EMPTY ELECTRICAL RACEWAYS.
8. HANGERS AND SUPPORTS
A. USE CASE "C" CLAMPS, "U" STRAPS OR RING HANGERS ATTACHED TO RODS, AND BRACKETS FASTENED TO STRUCTURE FOR INDIVIDUAL CONDUITS.
9. WIRE AND CABLE
A. PROVIDE COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEMS EXCEPT WHERE INDICATED OTHERWISE.
10. GROUNDING
A. GROUND ELECTRICAL APPARATUS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
11. OUTLET BOXES
A. PROVIDE PULL BOXES, JUNCTION BOXES, WIRING TROUGHS, AND CABINETS, WHERE NECESSARY FOR PROPER INSTALLATION OF VARIOUS ELECTRICAL SYSTEMS.
12. WIRING DEVICES AND ACCESSORIES
A. FURNISH WIRING DEVICES IN COLORS AND WITH SMOOTH PLASTIC DEVICE PLATE OF COLORS SELECTED BY OWNER/ARCHITECT.
13. PANELBOARDS
A. ACCEPTABLE MANUFACTURERS- GENERAL ELECTRIC, SQUARE D COMPANY, OR SIEMENS.
B. PANEL BOARDS TO BE UL LISTED AND LABELED, AND RATED FOR INTENDED VOLTAGE AND CURRENT AS DESCRIBED AND AS SHOWN IN DRAWINGS.
14. MOTOR AND HVAC WIRING AND CONNECTIONS
A. PROVIDE NECESSARY CONDUIT, BOXES, SUPPORTS, AND WIRING FOR THESE ITEMS.
15. CUTTING AND PATCHING
A. DO NECESSARY CUTTING AND DRILLING OF WALLS, FLOORS, CEILINGS, ETC. FOR INSTALLATION OF WORK IN ACCORDANCE WITH DIVISION 1 REQUIREMENTS.
16. IDENTIFICATION
A. IDENTIFY DISCONNECT SWITCHES (DEVICES THEY SERVE) WITH ENGRAVED, BEVELED EDGE LAMINATED PLASTIC NAMEPLATES WITH BLACK BASE AND WHITE CORE.
17. DISCONNECT SWITCHES
A. DISCONNECT SWITCHES TO MEET LATEST STANDARD KS1 - FOR TYPE HD HEAVY DUTY SWITCHES. PROVIDE FUSED OR NON-FUSED SWITCHES WITH NEMA 1 OR 3 ENCLOSURES AS INDICATED OR REQUIRED.
18. GUARANTEE
A. GUARANTEE ENTIRE INSTALLATION TO BE IN GOOD REPAIR FOR PERIOD OF ONE YEAR FOLLOWING FINAL DATE OF ACCEPTANCE.
19. PROJECT COMPLETION
A. UPON COMPLETION OF WORK OF THIS SECTION, THOROUGHLY CLEAN EXPOSED PORTIONS OF ELECTRICAL INSTALLATION. REMOVE TRACES OF SOIL, LABELS, GREASE, OIL, AND OTHER FOREIGN MATERIAL. USE ONLY TYPE CLEANER RECOMMENDED BY MANUFACTURER OF ITEM BEING CLEANED.

ELECTRICAL SYMBOLS table with columns: SYMBOL, DESCRIPTION, MTG HT UNO. Includes symbols for switches, receptacles, junction boxes, fluorescent strips, down light fixtures, disconnect switches, motors, and panelboards. Includes an ABBREVIATIONS section and NOTES.

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CHEMICAL ANALYZER HOUSE
ADDISON, TEXAS

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