1.1 DESCRIPTION OF SYSTEMS

A. The work required under this Division shall include all materials, labor and auxiliaries required to install, start up and test a complete and properly operating electrical system. The electrical systems required under this Division consists basically of, but are not limited to, the following:
B. Underground feeders from utility company equipment to main switchgear, including necessary risers, etc. Refer to Section 02310 – Earthwork, for all underground installations.
C. Main switchboard and distribution panels.
D. A complete emergency electric generating system and automatic transfer switches (life safety and equipment branch/optional branch) including all peripheral components required for a fully working system.
E. Complete distribution system for lighting including the necessary feeders, branch circuits, lighting fixtures, control switches and receptacles.
F. Complete distribution system for power including feeders, branch circuits, convenience outlets and connections to motors and other power loads.
G. A complete electric service ground system and special grounds as required or noted.
H. Connecting motors and manual control (unless otherwise specified).
I. Complete exit lighting system.
J. Complete emergency lighting system.
K. Complete system of empty raceways, cabinets, and terminal boards for data and communication systems.
L. Complete system of electrical distribution including receptacles, non-linear panels and transformers, grounding for computers.
M. Complete ITV television system, including all distribution equipment, cables, and master antenna.
N. Complete intercom and public address system.
O. Complete system of surge suppression devices.
P. Complete system of lightning protection system.
Q. Complete fire alarm system.
R. Complete power distribution system for HVAC equipment including wiring, conduits, and disconnect switches.
S. Complete system of empty raceways and terminal cabinets for security and intrusion alarm systems, video surveillance system, card access system and emergency radio communications systems.
T. Complete system of empty raceways and terminal cabinets and power requirements for EMCS (Energy Management and Control System).
U. Furnishing and installing all necessary access panels.
V. Concrete work for pad mounted equipment, or encased raceways.
W. Firestopping of your work.
X. Painting (of special equipment).
Y. Temporary power.
Z. Coordination and verification of power and Telephone Company service requirement prior to bid. Bid to include all work required.
AA. Contractor shall check site and existing conditions thoroughly before bidding. Advise Architect of discrepancies or questions noted.

END OF SECTION