1.01 SYMBOLS AND ABBREVIATIONS

A. Drawings shall be clear and concise. Spell out words, when possible. Use the American National Standard Institute (ANSI) abbreviations when abbreviations are required. Use appropriate standard symbols on drawings.Supply a key to symbols or legend of symbols.

1.02 REQUIRED INFORMATION

A. Show the following information on the working drawings:

1. SITE PLAN: Show electrical items including, but not limited to, exterior feeders, duct banks, primary switches, transformers, lighting fixtures, and existing utilities.

2. KEY OR LEGEND: Use ANSI graphic symbols sized same as used on plans with appropriate identification.

3. LIGHTING PLAN: Consider task lighting and energy conservation.

4. FIXTURE SCHEDULE: Shall indicate type; mounting height; number and type of lamps; number and type of ballasts; finish when appropriate; method of mounting; manufacturer’s name and catalog number; and two other acceptable manufacturers, when appropriate. Do not use “or equal.”

5. PANELBOARD AND SWITCHBOARD SCHEDULE: Shall include bus rating; circuit identification; circuit breaker description, including AIC rating; and the connected load on each circuit in amperes or KW. Indicate total connected load and demand load. Group the panelboard schedules together.

6. MOTOR CONTROL CENTER SCHEDULE: Shall include voltage rating, load horsepower or KW, disconnect rating, controller size and type, method of control, and interlock information. Indicate total connected load and demand load.

7. POWER ONE-LINE DIAGRAM: Shall indicate when used primary service entrance, primary switch, transformers, secondary distribution panel or switchboard, disconnects, meters, motor control centers, generator, transfer switches, fuse sizes, breaker sizes, feeder sizes, grounding, floor levels and room locations.

8. RISER DIAGRAMS: Shall indicate equipment, conductor and conduit size, and room numbers, where appropriate.
9. **FIRE ALARM DIAGRAMS:** Shall include a riser diagram indicating each piece of equipment, circuitry, floor levels, room locations, and battery calculations.

10. **SECURITY SYSTEM DIAGRAMS:** Shall include a riser diagram indicating each piece of equipment, circuitry, floor levels, room locations, and battery calculations.

11. Supply supplementary wiring diagrams for any special wiring that may be required.

12. Indicate room numbers on electrical floor plans.

### 1.03 CADD DOCUMENT REQUIREMENTS

A. Use the following 24 layers or levels when creating CADD documents.

1. **EXISTING TO REMOVE**
   a. Life Safety
   b. Lighting Fixtures
   c. Lighting Devices
   d. Lighting Circuitry
   e. Power/Communications Devices
   f. Power/Communications Circuitry
   g. Text for Lighting
   h. Text for Power/Communications

2. **EXISTING TO REMAIN**
   a. Life Safety
   b. Lighting Fixtures
   c. Lighting Devices
   d. Lighting Circuitry
   e. Power/Communications Devices
   f. Power/Communications Circuitry
   g. Text for Lighting
   h. Text for Power/Communications

3. **NEW WORK**
   a. Life Safety
   b. Lighting Fixtures
   c. Lighting Devices
   d. Lighting Circuitry
   e. Power/Communications Devices
   f. Power/Communications Circuitry
   g. Text for Lighting
   h. Text for Power/Communications