

# TREDYFFRIN TOWNSHIP

## Department of Permits and Inspections Commercial Electrical Permit/Plan Review Requirements

- 1- Provide a **single line diagram (SLD)** that includes the following: YES \_\_\_\_ N/A \_\_\_\_
- a. All major pieces of distribution equipment, feeders, etc.
  - b. Wire, Cable and/or conduit sizes, - verify that 75 degrees terminal/column use.
  - c. Conductor material, etc.
  - d. Details for **Grounding**:
    - 1) Service
    - 2) Transformers
    - 3) Grounded (Neutral) conductor.
    - 4) Compliance with 250.1232(B)
  - e. Available **Short circuit Current (SCA)** at all equipment. (Service included.)
    - 1) Verify all equipment is rated accordingly.
  - f. Verify **Transformer Secondary Conductors** comply with 240.21(C) & 250.66
  - g. Verify **Feeder conductors & Circuits** comply with 240.21(B)(1) and 250.122(G)
  - h. Verify feeders to other buildings comply with section 250.32(B)(1) or B(2)
- 2- Provide **Panel Schedule** including the following: YES \_\_\_\_ N/A \_\_\_\_
- a. circuit loading.
  - b. breaker size and pole.
  - c. AIC Rating.
  - d. Provide assumptions of specific/special loads, (HVAC, etc)
- 3- Provide **Load Calculations** for all services, feeders, panels, etc: YES \_\_\_\_ N/A \_\_\_\_
- a. Verify that the OCPD's and the conductors are sized for load and 220 & 240
  - b. Identify continuous & non-continuous loads.
- 4- Clearly Identify proposed **Wiring Methods** for specific applications/uses in buildings: YES \_\_\_\_ N/A \_\_\_\_
- a. Romex in building?
  - b. MC? AC? Conduit?
  - c. Is the space above ceiling or below floor used for environmental air?
  - d. SJO cord? Receptacles above **Dropped Ceiling** – Article 400
- 5- Provide details on **Circuitry**: YES \_\_\_\_ N/A \_\_\_\_
- a. Proposed wiring and circuitry of equipment, devices, lighting, etc
  - b. clearly show wiring of **Emergency/egress/Exit lighting**-verify it meets 700.12(F), 700.16
    - 1) Need one in all bathrooms.
    - 2) Need one outside each exit.
  - c. Required outlets (receptacles for HVAC, GFI, for bathrooms, **Show Window Outlets** 210.62 & 220.43 (A))
- 6- **Elevators**: YES \_\_\_\_ N/A \_\_\_\_
- a. Verify installation meets 620.22 and 620.33
  - b. Review NEC Article 620 to make sure all other sections are in compliance.
- 7- **Plans**: YES \_\_\_\_ N/A \_\_\_\_
- a. Signed and Sealed CADed drawings to scale clearly showing work scope.