



HILLTOWN TOWNSHIP

13 West Creamery Road

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December 18, 2015

Re: Electrical Plans Submissions,- **EXPECTATIONS**
Hilltown Township, Bucks County, Pa.

To Whom It May Concern:

As you may or may not be aware, Hilltown Township requires all permit applicants to submit plans bearing (original ink) third party notation of review and approval. In an effort to provide applicants with as much flexibility as possible, the township has avoided narrowing the field to a select few, or even a single, approved provider.

In turn, it is assumed that the agency reviewers are doing thorough plan reviews, and requiring complete detailed plans, showing the full extent of all proposed work, and, when the construction is non-residential in nature, the plans should be signed and sealed by a licensed designer.

Lately, I have had a seemingly increasing number of electrical plans cross my desk with little information and multiple (numerous) notations along the lines of 'MUST COMPLY...'. I 'tongue in cheek' refer to these as 'stamped napkins'.

While I recognize that agencies are competing for business and attempting to simplify things for their clients, there is, nonetheless, a minimum standard for what should be included on plans:

Panel Schedules with circuit and feeder loading, overcurrent protection, and NEC load summaries for all new and/or affected panels and services (loading has to be evaluated by highest phase); include fault current data, short circuit ratings and fault current protection coordination.

Single Line Riser Diagram showing all new and/or affected services, feeders, wire sizes and insulation types, and conduit sizes and types.

Number of Services and Their Physical Locations; clearly indicate mains and characteristics.

Grounding Electrode Conductor Size with new and/or affected services and transformers; where necessary provide details or notes on methods.

Physical Locations of all new and/or affected panels and switchgear (indicate front).

Receptacle Plans with circuitry.

Lighting Plans with circuitry.

Electrical Plans for each affected floor, including the roof.

Wiring Method(s), conduit sizes and types, termination temperature (60, 75, 90) requirements, conductor sizes and insulation types.

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Code Enforcement

Design and/or Operation for any of the following applicable life safety systems: emergency generators, smoke evacuation, shaft pressurization and relief, smoke detection, egress and emergency lighting, and fire alarms.

Indicate how special needs such as classified (hazardous), corrosive and patient care are treated. Provide detailed plan of classified areas, the classifications and how complied with (i. e. hangers, waste treatment and collection, flammable dusts, gases or liquids, spray booths, vehicle servicing and parking, etc.).

Provide all HVAC Nameplate Data, including MCA and MOCP. List all other appliance and/or equipment (other than those which will be connected to a general use receptacle) with nameplate data (i.e., voltage, phasing, HP, KVA, FLA, RLA, etc.).

Motor Horse Power Ratings, if not supplied elsewhere.

Indicate the certified testing laboratory or agency (e.g., UL), their test # and hourly ratings of all new and/or affected rated members and assemblies (i.e. columns, beams, floor/ceiling, and ceiling/roof fire-rated design assemblies). Show all new and/or affected fire-rated walls with their ratings, if not shown elsewhere.

Provide all applicable International Energy Conservation Code compliance data on the Building Code Summary sheet or on the electrical plans.

All submittals should include a listing and labeling statement. (All electrical materials, devices, appliances and equipment shall be labeled and listed by a certified testing laboratory or agency.

Obviously not all these requirements are going to apply to all projects; and there will be times when notations will be placed on the plans by the reviewer, but when the number review comments equals or exceeds the supplied information, or the plan is just deemed inadequate by the BCO (whether it has been approved by a reviewer or not), the plan will be rejected and the permit held up.

If this problem does not resolve itself, as Hilltown Township BCO, I will seek to appoint a single electrical inspection agency and/or limit approved agencies to just a few.

Kind Regards,



David W. Taylor
Zoning Officer/BCO
Hilltown Township

cc: File