

SUSQUEHANNA TOWNSHIP MULTI-FAMILY & NON RESIDENTIAL UCC PLAN REVIEW CHECKLIST

This checklist must accompany permit applications for new buildings/structures, additions and renovation projects (those which exceed the scope of Alterations-Level 1)

ALL INFORMATION MUST BE FILLED IN, CHECKED OR MARKED "NA"

Project Name:	
Project Address:	
Owner/Agent:	Telephone:
Design professional or other person we can contact about info on this form and other project details (if same as Owner/Agent, just provide fax # and e-mail address):	Phone: _____ Fax : _____ E-mail: _____

General Requirements:

All drawings, shall be sealed, signed, and dated, by a design professional (licensed architect or engineer). The **only** exception is when **all** of the following apply:

- a) The proposed work only involves remodeling or alterations of an existing building or structure.
- b) The proposed work does not change the building's structure or means of egress.
- c) The person preparing the plans is not compensated for the preparation of the drawings.

All drawings must be neatly drawn with clean, crisp lettering --- they must remain legible.

Computer-generated vicinity maps obtained from web-based services (such as *MapQuest*) are acceptable, as long as the roadways or street names are legible.

When photographs (including digital ones) are submitted to show building elevations, the images must be in focus and correctly exposed.

A Pennsylvania Department of Transportation (PennDOT) permit allowing access to a highway under its jurisdiction is not required at the time that application is made for a UCC building permit. **If the highway occupancy permit issued by PennDOT requires a location of the building/structure differing from that approved under the UCC building permit and approved site plan, applicants must send a letter requesting a determination whether a revision of approved plans will be required.**

While we understand that many items on this checklist may not be included in some alteration or renovation projects, we request that all applicants work through the entire checklist to ensure that any necessary items are included. If any item is **not necessary, please insert NA** ("not applicable"). This will greatly facilitate review and approval of projects.

- Two (2) sets of drawings** are included in this application package (**mandatory**).
- Two (2) site plans** are included in this application package (**mandatory**).
- One (1) set of specifications** is included in this application package (**mandatory**).

SITE PLANS:

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|--------------------------|-----|--------------------------|-----|----|---|
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | a. | Site plans shall be prepared to scale (not less than 1"=20'), with legend, north arrow, and separate vicinity (site location) map. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | b. | Show the correct street address, parcel number and required municipal zoning (if there is local zoning ordinance) on the site plans. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | c. | Show and identify all property lines and rights-of-way, with distance from property lines and adjacent buildings on site plans. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | d. | Show all accessible parking spaces and signage per ICC/ANSI A117.1 and the <i>International Building Code</i> on site plan. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | e. | Show accessible curb cuts, ramps and access ways to the building. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | f. | Show all existing and proposed driveway entrances. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | g. | Identify adjacent land uses and zoning. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | h. | Show all easements, flood ways, and required buffers. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | i. | Show existing and proposed utilities (with backflow preventers) to serve the site. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | j. | Show existing and proposed finish grades. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | k. | Show details, sections, and elevations needed for construction. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | l. | Show all buffer and screening landscaping. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | m. | Show all required parking and loading spaces and calculations. |

ARCHITECTURAL PLANS:

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|--------------------------|-----|--------------------------|-----|----|---|
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | a. | Show architectural floor plans of each floor. These pages must be at least 18" x 24" in size (but not more than 36" x 42"), drawn to a scale of not less than 1/8" = 1'. Indicate (or reproduce) the approved, tested hourly rating, number and location of all rated members and assemblies (walls, columns, beams, floor and ceiling, and ceiling and roof fire-rated design assemblies). Show all fire-rated walls (both existing and new) with their ratings, if not shown elsewhere. Drawings submitted without required fire-rated walls shown will be rejected. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | b. | Show the square footage of each floor on the corresponding floor plans. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | c. | Identify the names and uses of each room. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | d. | Furnish door schedule(s), including size, type, rating (if any) and hardware. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | e. | Provide all glazing schedules. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | f. | Show elevations with dimensions defining overall building height, floor-to-floor heights or heights to ridge and eave as applicable to the type of building construction listed on the UCC application. (Note: Where an existing building is involved, photographs of all sides of the building may be submitted to show elevations. These will be acceptable only if they show all elements necessary to determine compliance with the UCC.) |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | g. | Provide basement percentage-below-grade calculations. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | h. | Indicate roof slopes, drainage system and sized through wall scuppers, if applicable to the project. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | i. | Show fixed seating for assembly occupancy to allow determination of occupancy posting required by <i>International Building Code</i> . |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | j. | Show wall sections with proposed material sizes, construction and fire-rated assemblies. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | k. | Show proposed plumbing fixtures and privacy screens on the plans. |

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|--------------------------|-----|--------------------------|-----|----|---|
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | l. | If masonry construction is proposed, include the following information:
<input type="checkbox"/> Type of brick ties and spacing of weep holes.
<input type="checkbox"/> Type of brick ties and spacing of weep holes.
<input type="checkbox"/> Placement of wall flashing and reinforcement. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | m. | If appropriate for the proposed occupancy, plans should identify all hazardous material control areas, fire barriers and the required fire-resistance ratings for these barriers. All identified control areas shall list the name, class, quantity and method of storage of all hazardous materials processed, manufactured or used in a manufacturing process and contained within its fire barriers. Provide a Material Safety Data Sheet for each listed hazardous material. See sections 414 and 415 of the <i>International Building Code</i> . |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | n. | Show the floor slab vapor barrier. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | o. | Show foundation water-proofing, if applicable. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | p. | All penetrations of fire-rated construction must be per manufacturer's details. The details shall meet or exceed the rating of construction being penetrated. The penetration details shall be exactly as tested by an approved testing laboratory or agency and shall include their system numbers. New penetrations of existing fire-rated walls and assemblies shall be shown with appropriate designs. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | q. | Show penthouse drawings. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | r. | Provide on the drawings the calculations for the means of egress widths for the entire floor occupancy load and the existing capacity of all exits including all stairs, doors, corridors and ramped exits. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | s. | Show required ventilation louvers and vent sizes. |

STRUCTURAL PLANS:

N/A

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|--------------------------|-----|--------------------------|-----|----|---|
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | a. | Show foundation plans indicating the proposed slab elevations and type of foundation (i.e., mat foundation, caissons, spread footings, etc.). |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | b. | Provide preliminary soil analysis data done by a licensed engineer, if required. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | c. | Indicate dimensions of foundations. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | d. | Show type, size and location of piling and pile caps for pile foundation. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | e. | Indicate grade beam sizes. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | f. | Indicate a footing schedule defining footing sizes and the required reinforcing. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | g. | Show the established footing depth below grade and method of frost protection allowed in section 1809.5 of the <i>International Building Code</i> . |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | h. | Indicate the thickness of the floor slab, size of reinforcing, slab elevations, and type and details of foundations. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | i. | Indicate location, size and amount of reinforcing steel. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | j. | Show foundation corner reinforcing bars and minimum overlapping (as applicable to project structure). |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | k. | Provide strength of concrete according to designed soil reports. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | l. | Show beams, joists, girders, rafters, and/or truss layouts and details of connections, structural steel stud gage, gage size, and connections. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | m. | Indicate the sizes and species of all wood members and their respective design strength. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | n. | Show all columns, girders, joists, purlins, beams and base plates; for wood construction show all headers. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | o. | Provide a complete lintel schedule. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | p. | Indicate the type of anchoring for steel bearing directly on masonry. |

- Yes N/A q. Indicate design dead and live, wind, snow, seismic loads for floor areas, roofs, balconies, porches, breezeways, corridors, stairs, mezzanines and platforms. Show concentrated loads, i.e. file rooms, machinery and forklift areas, if greater than those shown on the Code Summary Sheet. Identify shear walls, bracing, strapping fastening, reinforcement and any special anchoring required.
- Yes N/A r. Where applicable, indicate on roof framing plan where concentrated loads (mechanical equipment, cranes, etc.) will be placed.
- Yes N/A s. Indicate on foundation and framing plans the location and lateral load resisting system. (Show walls, braced frames, moment connections, etc.)

FIRE PROTECTION PLANS: N/A

- Yes N/A a. Complete a sprinkler design data sheet and include it on the first plan of the sprinkler drawings.
- Yes N/A b. Show floor plans for each floor with sprinkler piping layout, pipe sizes, pipe hanger details, piping materials, doors, walls and room identities. Often, these shop drawings are not available at the time of initial plan submission. If this is the case, write in "NA," but note the following:
- These shop drawings must be submitted for Department review and approval **at least two weeks before the projected installation date.**
 - Failure to obtain approval of these drawings before installation could result not only in delay of the final inspection and issuance of an occupancy permit, but also in removal and reconstruction of installations which fail to meet UCC requirements.
- Yes N/A c. Show ceiling plans with sprinkler head(s) layout, walls, soffits, openings, doors, dimensions and room identities.
- Yes N/A d. Verify system design by providing hydraulic calculations along with the following:
- Recent water flow test
 - Percent safety margin
 - Type of backflow-preventer or reduced pressure zone showing equivalent foot loss
 - Fire pump summary
- Yes N/A e. Note the type of sprinkler system used (e.g., 13, 13D, or 13R)
- Yes N/A f. For residential occupancies such as apartments and condominiums, show sprinkler head locations at breezeways, if applicable.
- Yes N/A g. Indicate the certified testing laboratory agency (e.g., U.L.), their test number 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.
- Yes N/A h. All penetrations of fire-rated construction must be per manufacturer's details. Details shall meet or exceed ratings of construction being penetrated. The penetration details shall be exactly as tested by a certified testing laboratory or agency and shall include their system numbers. All new penetrations of existing fire-rated walls and assemblies shall be shown with appropriate designs.
- Yes N/A i. Provide a fire alarm riser showing connection to a UL-approved central station. Show tamper switches on both OS and Y valves of backflow prevention device, unless shown elsewhere.
- Yes N/A j. Indicate commodity class (per section 2303 of the *International Fire Code*) and height of any storage.
- Yes N/A k. Provide Material Safety Data Sheets for any hazardous materials (also specified under "**ARCHITECTURAL PLANS**").

- Yes N/A I. Where special temperature-rated or high-temperature sprinklers are required, show sprinkler type(s) per area, office size, cut sheets with K-factor, water requirements, spray pattern, coverage and other pertinent data.

SYSTEM CALCULATIONS (FIRE PROTECTION): N/A

Hydraulically calculated and pipe schedule fire systems should be designed with a 10 percent safety margin for all new buildings and additions to existing buildings. Calculations for hydraulic systems should include:

- Yes N/A a. Flow and pressure at each flowing sprinkler head.
 Yes N/A b. Flow diagram for a grid system.

PLUMBING PLANS: N/A

- Yes N/A a. Show a site utilities plan, if not provided with the civil drawings.
 Show the domestic water, fire, and irrigation services.
 Show the location of water meters, backflow protection type and location.
 Show the sanitary sewer service from building to public sewer or approved private sewage disposal system.
- Yes N/A b. Show interceptors as applicable to project and size by flow rate. (i.e., grease, oil, lint, acid, sand).
- Yes N/A c. Provide plumbing plan layouts for each floor. These should show the water distribution and drain-waste-vent piping, and all details, notes, legends, and schedules necessary to define the system being installed.
- Yes N/A d. Show the location of all major components required for a complete system.
- Yes N/A e. Provide fixture and equipment schedule showing fixture number, detailed description, hot water, cold water, waste and vent connection sizes and other pertinent data.
- Yes N/A f. Identify all fixtures on floor plans and in riser diagrams with the plumbing fixture schedule number.
- Yes N/A g. Supply and Waste/Vent piping shall be shown on the floor plans. All pipe sizes shall be clearly shown. In congested areas (e.g., restaurants, grocery stores, etc.), isometrics are required.
- Yes N/A h. On buildings two stories and above, provide isometric diagrams and/or schematic riser diagrams for Supply and Waste/Vent piping and identify the risers by number (e.g., R1, R2, etc.). Show where all riser base terminations connect to the building drain, along with all interconnected piping on each floor plan. All pipe sizes shall be clearly defined.
- Yes N/A i. Show the water, sanitary drain-waste-vent piping and storm leaders/drains. Indicate sizes and materials for above/below grade.
- Yes N/A j. Show slope of horizontal sanitary and storm drains that equal or exceed 3" diameter, if less than 1/8" per foot.
- Yes N/A k. Indicate roof drains and emergency roof drains/scuppers with the areas they impact. Note that "emergency" = "secondary" = "overflow"; see following roof drainage examples:
- Roof Drain - 6" RD (16880 SF)
 - Emergency Roof Drain - 6" ERD (8180 SF)
 - Parapet Wall Scupper - 8" x 5" WS (4000 SF)
 - Emergency Scupper - 8" x 7" ES (4200 SF)
- Yes N/A l. Show toilet room layouts with minimum of ¼ " = 1 foot scale.
- Yes N/A m. Show drinking fountain locations.
- Yes N/A n. All penetrations of fire-rated construction must be per manufacturer's details. The details shall meet or exceed rating of construction being penetrated. The penetration details shall be exactly as tested by an approved testing laboratory or agency and shall include their system numbers.

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|--------------------------|-----|--------------------------|-----|--|
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | o. Room names and numbers for each floor should be on a floor plan for each level. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | p. Provide minimum facilities calculations. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | q. Column line notations, if provided on the architectural/structural plans, shall be indicated on the plumbing plans. |

MECHANICAL PLANS: N/A

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|--------------------------|-----|--------------------------|-----|--|
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | a. Show all required wall louvers, penetrations and fans. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | b. Indicate roof-mounted equipment locations. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | c. Show all mechanical equipment, piping, ductwork (above/below slab) on the mechanical floor and/or roof plan. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | d. Provide mechanical plans for each floor and the roof. These shall show the ductwork layouts, schedules, notes, legends, piping schematics, and details necessary to define the system being installed. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | e. Indicate air distribution devices and show cfm for all supply, return and exhaust devices. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | f. Indicate the location of all equipment components required for a complete system. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | g. Show the smoke ventilation of atriums and pressurization of high-rise stairwells. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | h. Show condensation drains, primary and secondary, from the unit to the point of discharge. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | i. Indicate toilet exhaust requirements. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | j. Show mechanical room layouts at sufficient scale for dimensions and details to be ascertained. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | k. Show the size of duct runs. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | l. Indicate controls for fan shutdown: emergency manual and automatic smoke detection |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | m. Show the location of all UL 555-certified fire dampers, ceiling radiation dampers, smoke dampers, and fire doors. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | n. Show all fire-rated walls (both existing and new) with their ratings on the mechanical plans. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | o. All penetrations of fire-rated construction must be per manufacturer's details. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | p. Room names and numbers for each floor should be on a floor plan for each level. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | q. Provide outside air ventilation rate per the <i>International Mechanical Code</i> . |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | r. Column line notations, if provided on the architectural/structural plans, shall be identified on the mechanical plans. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | s. Provide gas piping layout on the floor plan for each floor. If it is a multi-story building, all gas piping shall be shown per floor. Include pipe sizes, water column, and type of material. Provide a schedule of connected equipment, total BTUH demand, total equivalent length, and most remote gas appliance. |

ELECTRICAL PLANS: N/A

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|--------------------------|-----|--------------------------|-----|---|
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | a. Provide 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. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | b. Provide a single line riser diagram showing all new and/or affected services, feeders, wire sizes and insulation types, and conduit sizes and types. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | c. Indicate number of services and their physical locations; clearly indicate mains and characteristics. |

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|--------------------------|-----|--------------------------|-----|--|
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | d. Indicate the grounding electrode conductor size with new and/or affected services and transformers; where necessary provide details or notes on methods. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | e. Show physical locations of all new and/or affected panels and switchgear (indicate front). |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | f. Indicate receptacle plans with circuitry. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | g. Indicate lighting plans with circuitry. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | h. Show electrical plans for each affected floor, including the roof. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | i. Show wiring method(s), conduit sizes and types, termination temperature (60, 75, 90) requirements, conductor sizes and insulation types. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | j. Indicate the 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. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | k. 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.). |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | l. 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.). |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | m. Indicate all motor horse power ratings, if not supplied elsewhere. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | n. 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. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | o. All penetrations of fire-rated construction must be per manufacturer's details. The details shall meet or exceed ratings of construction being penetrated. Penetration details shall be exactly as tested by an approved testing laboratory or agency and shall include their system numbers. New penetrations of existing fire-rated walls and assemblies shall be shown with appropriate designs. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | p. Provide all applicable <i>International Energy Conservation Code</i> compliance data on the Building Code Summary sheet or on the electrical plans. |
| <input type="checkbox"/> | Yes | <input type="checkbox"/> | N/A | q. 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.) |