

CITY OF WILMINGTON

PLAN REVIEW REQUIREMENTS

BUILDING PLAN REVIEW REQUIREMENTS:

A SITE PLAN: Include all of the following:

- Size and location of all new construction and all existing structures on the site,
- Distances from lot lines,
- Established street grades and proposed finish grades.

ARCHITECTURAL PLANS AND SPECIFICATIONS: Include all of the following:

- Description of uses and the proposed use group(s) for all portions of the building. The design approach for mixed-uses (as applicable),
- Proposed type of construction of the building,
- Fully dimensioned drawings to determine areas and building height.
- Adequate details and dimensions to evaluate means of egress, including occupant loads for each floor, exit arrangement and sizes, corridors, doors, stairs, etc.
- Exit signs/means of egress lighting, including power supply.
- Accessibility provisions.
- Description and details of proposed special occupancies such as a covered mall, high-rise, mezzanine, atrium, public garage, etc.
- Adequate details to evaluate fireresistive construction requirements, including data substantiating required ratings.
- Details of plastic, insulation, and safety glazing installation.
- Details of required fire protection systems.

STRUCTURAL PLANS, SPECIFICATIONS, AND ENGINEERING DETAILS:

- Soils report indicating soil type and recommended allowable bearing pressure and foundation type.
- Signed and sealed structural design calculations which support the member sizes on the drawings.
- Local design load criteria, including frost depth.
- Earthquake seismic zone/effective peak acceleration coefficient.
- Details of foundations and superstructure.
- Provisions for required special inspections.
- Applicable construction standards and material specifications (i.e. masonry, concrete, wood, steel, etc.).

ELECTRICAL PLAN REVIEW REQUIREMENTS:

- COMPLETE PLANS AND SPECIFICATIONS OF ALL ELECTRICAL WORK.**
- LABELING CRITERIA OF ALL ELECTRICAL EQUIPMENT.**

- LIGHTING FLOOR PLAN INCLUDING ELECTRICAL CIRCUITS INDICATING CONDUIT AND WIRING SIZES.**
- POWER FLOOR PLANS INCLUDING ELECTRICAL CIRCUITS INDICATING CONDUIT AND WIRING SIZES, EQUIPMENT AND DISCONNECT SWITCHES.**
- EXIT SIGN/MEANS OF EGRESS LIGHTING LOCATION AND POWER SUPPLY.**
- PANELBOARD SCHEDULE.**
- SYMBOL SCHEDULE AND DIAGRAMS.**

SPECIFICATIONS TO INCLUDE REQUIREMENTS FOR:

- Raceway and conduit with fittings.
- Wire and cable
- Electrical boxes, fittings and installation.
- Electrical connections.
- Electrical wiring devices.
- Circuit and motor disconnects.
- Hangers and supporting devices.
- Electrical identification.
- Service entrance and details.
- Overcurrent protection.
- Switchboards.
- Grounding
- Transformers
- Panelboards.
- Motor Control Centers
- Lighting Fixtures
- Fire protective signaling systems.
- Automatic fire detection systems.
- Emergency/standby systems.

MECHANICAL PLAN REVIEW REQUIREMENTS:

- COMPLETE SIGNED AND SEALED PLANS AND SPECIFICATIONS OF ALL HEATING, VENTILATING AND AIR CONDITIONING WORK.**
- LABELING CRITERIA OF ALL MECHANICAL EQUIPMENT.**

HEATING EQUIPMENT DATA INCLUDING THE FOLLOWING:

- Ventilation schedule indicating the amount of outside air (in c.f.m.) supplied to each room or space.
- Layout showing outside air intakes.
- Construction of ducts, including support and sheet metal thickness.
- Duct lining and insulation materials with flame spread and smoke-developed ratings.
- Exhaust fan ductwork layout and termination to the outside.
- Size of louvers and grilles for attic ventilation.

- BOILER AND WATER HEATER EQUIPMENT AND PIPING DETAILS INCLUDING SAFETY CONTROLS AND DISTRIBUTION PIPING LAYOUT.**
- GAS AND FUEL OIL PIPING LAYOUT, MATERIAL, SIZES, AND VALVES.**
- COMBUSTION AIR INTAKE QUANTITIES AND DETAILS.**
- COMMERCIAL KITCHEN EXHAUST EQUIPMENT DETAILS INCLUDING HOOD AND FAN DRAWINGS, DETAILS OF AUTOMATIC FIRE SUPPRESSION, AND CLEARANCES.**
- MECHANICAL REFRIGERATION EQUIPMENT DATA AND DETAILS.**
- SOLID FUEL BURNING APPLIANCE DETAILS INCLUDING INCINERATOR AND FIREPLACE DRAWINGS AND DETAILS.**
- ENERGY CONSERVATION PER 2012 INTERNATIONAL ENERGY CONSERVATION CODE w/ILLINOIS amendments.**

PLUMBING PLAN REVIEW REQUIREMENTS:

- COMPLETE PLANS AND SPECIFICATIONS OF ALL PLUMBING WORK.**
- PLUMBING FIXTURE AND PIPING MATERIAL SPECIFICATIONS INCLUDING IDENTIFICATION OF THE APPLICABLE REFERENCED STANDARD.**

PLUMBING FIXTURE INFORMATION TO INCLUDE:

- The occupant load used to determine the number of required plumbing fixtures.
- Number and distribution based on the use group.
- Separate facilities for each sex.
- Accessible plumbing facilities and details.
- Anti-scald shower valves.
- PLUMBING PIPING PLAN SHOWING LAYOUT, PITCH OF DRAINAGE LINES, CLEANOUTS, SIZE OF TRAPS, AND RISER DIAGRAM.**
- WATER SUPPLY AND DISTRIBUTION PLAN SHOWING PIPING SIZES, VALVES, WATER HEATER DETAILS AND TEMPERATURE-PRESSURE RELIEF VALVE WITH DISCHARGE PIPE.**
- SANITARY DRAINAGE AND VENT SYSTEM RISER DIAGRAM SHOWING DRAINAGE FIXTURE UNITS (dfu), SIZES AND VENT TERMINATION DETAILS THROUGH THE ROOF.**
- POTABLE WATER SYSTEM RISER DIAGRAM SHOWING PIPING SIZES AND PROVISIONS FOR PROTECTION OF POTABLE WATER SUPPLY.**
- PIPING SUPPORT AND INSTALLATION SCHEDULE.**
- STORM DRAINAGE DETAILS INCLUDING RAIN GUTTER OR ROOF DRAIN SIZES AND DOWNSPOUT/LEADER SIZES.**

- HEALTH CARE PLUMBING AND FIXTURE DETAILS.**

SPRINKLER PLAN REVIEW REQUIREMENTS:

- COMPLETE PLANS AND SPECIFICATIONS FOR THE SPRINKLER SYSTEM EQUIPMENT.**
- DESCRIPTION AND LOCATIONS OF USES WITHIN THE BUILDING.**
- DESIGN DETAILS IN ACCORDANCE WITH THE APPROPRIATE REFERENCE STANDARD (i.e. NFPA 13, 13D, 13R) AS REFERENCED BY THE BOCA NATIONAL BUILDING CODE.**
- DESIGN CALCULATIONS INDICATING THE DISCHARGE REQUIREMENTS OF THE SYSTEM WITH EVALUATION OF THE ARRANGEMENT AND SOURCE OF THE WATER SUPPLY.**
- RESULTS OF A CURRENT FLOW TEST INDICATING THE LOCATION AND DATE OF THE TEST.**
- WORKING DRAWINGS INDICATING ALL PIPE SIZES AND THE SPACING BETWEEN BRANCH LINES AND SPRINKLERS ON THE BRANCH LINE.**
- MATERIAL SPECIFICATIONS AND EQUIPMENT SPECIFICATIONS. ALL MATERIALS USED SHOULD BE VERIFIED THAT THEY ARE INSTALLED IN ACCORDANCE WITH THEIR LISTING.**

** Note: ALL plans, specifications and calculations MUST be signed and sealed by an Illinois Licensed Architect, Structural Engineer or Professional Engineer.*