

DEPT. OF INDUSTRY, LABOR & HUMAN RELATIONS 7
Administration and enforcement

(3) **PLANS AND SPECIFICATIONS.** At least 3 complete sets of plans, which are clear, legible and permanent copies, and one copy of specifications shall be submitted for examination and approval before commencing construction. The plans and specifications shall contain the following information:

(a) *General.* All plans shall contain the name of the owner and the address of the building. The name and seal of the architect(s), engineer(s) or person(s) who prepared the plans shall appear on the title sheet, in accordance with Wis. Adm. Code section A-E 1.04 (4)—registration seals.

(b) *General building plans.* The general building plans shall include the following:

1. *Plot plan.* The location of the building with respect to property lines and/or lot lines and/or adjoining streets, alleys and any other buildings on the same lot or property shall be indicated on the plot plan. A small scale plot plan shall be submitted on a 8½ x 11 sheet for projects containing multiple buildings.

2. *Floor plans.* Floor plans shall be provided for each floor. The size and location of all rooms, doors, windows, firewalls, toilet facilities, structural features, exit passageways, exit lights, fire alarms, standpipes, stairs and other pertinent information shall be indicated. Schematic exit plans shall be provided for large buildings, indicating normal paths of egress.

3. *Elevations.* The elevations shall contain information on the exterior appearance of the building and indicate the location and size of doors, windows, roof shape, chimneys, exterior grade, footings and foundation walls, and include information about the exterior materials.

4. *Sections and details.* Sections and details shall include information to clarify the building design.

(c) *Heating, ventilating and air conditioning plans.* Heating, ventilating and air conditioning plans shall indicate the layout of the system, including location of equipment and size of all piping, ductwork, dampers (including fire dampers), chimneys, vents and controls. The quantity of outside air introduced to each zone, and the quantity of supply air and exhaust air for each room shall be listed on the plans. The type of equipment and capacity (including the input and output) shall be indicated on the plans or equipment schedules, unless indicated in the specifications.

(d) *Specialty plans.* Specialty plans for spray booths, special exhaust systems, stadiums, grandstands and bleachers, fire escapes and special structural systems shall include pertinent information with respect to the design and construction of the specialty.

(e) *Specifications.* The specifications shall be properly identified with the drawings and describe the quality of the materials and the workmanship.

(f) *Schedules.* Schedules shall be provided which contain information pertinent to doors, room finishes, equipment, and the use of all

rooms and the number of occupants accommodated therein, unless this information is indicated on the plans.

Note #1: Original drawings are not considered a substitute for permanent prints.

Note #2: Duplicate information need not be submitted when heating, ventilating, air conditioning and building plans are submitted simultaneously.

Note #3: For pit depth and overhead clearance requirements applicable to design of elevator hoistways, see Wis. Adm. Code chapter Ind 4, Elevator Code.

Note #4: Plans for plumbing systems and swimming pool installations are examined by the department of health and social services.

(4) **DATA REQUIRED.** All plans submitted for approval shall be accompanied by sufficient data and information for the department to judge if the design of the building, the capacity of the equipment, and the performance of the system will meet the requirements of this code. The following data shall be submitted:

(a) *Structural data.* Sample structural calculations, including assumed bearing value of soil, live loads and itemized dead loads, unit stresses for structural materials, stress diagrams for trusses, typical calculations for slabs, beams, girders and columns, and diagrams indicating bracing and stability of the structure and components in rigid frames and other open type buildings shall be submitted. Complete structural calculations shall be furnished upon request of the department or other authorized approving official.

Note: Diagrams are intended to apply to the appropriate final designs of buildings regardless of materials of construction. For job bracing of buildings, see Wis. Adm. Code chapter Ind 35, a supplement to chapters Ind 1000-2000, Wis. Safety and Health Code.

(b) *Thermal performance data.* Thermal performance calculations shall be submitted in accordance with the requirements of section Ind 51.02 (16).

(c) *Heating and ventilating data.* A description of the construction for the walls, floors, ceilings and roof, and the transmission coefficients of the construction materials shall be furnished. The calculations shall include heat losses for the individual rooms (including transmission and infiltration and/or ventilation losses, whichever are greater) and a summary of the total building heat loss expressed in Btu/hour or watts.

Note: The department will accept as the basis for calculations and design data, the methods and standards recommended by the Mechanical Contractors' Association of America; the American Society of Heating, Refrigerating and Air Conditioning Engineers; and the Institute of Boiler and Radiator Manufacturers.

(d) *Additional data.* When requested, additional data pertaining to design, construction, materials and equipment shall be submitted to the department for approval.

(5) * **APPLICATION FOR APPROVAL.** A plans approval application form shall be included with the plans submitted to the department for examination and approval.

Note: See Appendix A for an example of the plans approval application (form SB-118).

*See Appendix A for further explanatory material.

Register, December, 1976, No. 252
Building and heating, ventilating
and air conditioning code

(a) *Conditional approval.* If, upon examination, the department determines that the plans and the application for approval substantially conform to the provisions of this code, a conditional approval, in writing, will be granted. All non-code-complying conditions stated in the conditional approval shall be corrected before or during construction. A conditional approval issued by the department shall not be construed as an assumption of any responsibility for the design or construction of the building.

(b) *Denial of approval.* If the department determines that the plans or the application do not substantially conform to the provisions of this code, the application for conditional approval will be denied, in writing.

Note: A letter will be sent to the designer and the owner of record with a statement relating to the examination of the plans and citing the conditions of approval or denial. The plans will be dated and stamped "conditionally approved" or "not approved," whichever applies. At least 2 copies of the plans will be returned to the person designated on the plans approval application; one copy will be retained by the department.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77; am. (1) (g) 1, Register, December, 1977, No. 264, eff. 1-1-78.

Ind 50.13 Footing and foundation approval. Upon submission of the plans approval application form, at least 3 sets of footing and foundation plans, a plot plan, schematic floor plans locating exits, elevations, itemized structural loads, structural foundation calculations, and a fee, the department may conditionally approve the footing and foundation plans to permit construction of the footings and foundations prior to the examination and approval of the complete plans.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

Ind 50.14* Permit to start construction. Upon submission of the plans approval application form, 3 complete sets of building plans and one copy of specifications, a written request by the owner to start construction, and a fee, the department may issue a permit to start construction of the footings and foundations. The holder of the permit shall proceed at his [her] own risk without assurance that a conditional approval for the building will be granted.

Note: A permit to start construction (form SB-198) is illustrated in the Appendix.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

Ind 50.15 Evidence of plan approval. The architect, engineer, designer, builder or owner shall keep at the building site one set of plans bearing the stamp of conditional approval and a copy of the specifications. The plans shall be open to inspection by an authorized representative of the department.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

Ind 50.16 Revocation of approval. The department may revoke any approval, issued under the provisions of this code, for any false

*See Appendix A for further explanatory material.

statements or misrepresentation of facts on which the approval was based.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

Ind 50.17 Department limitation and expiration of plan approval. (1) **EXPIRATION OF PLAN APPROVAL.** Plan approval by the department or its authorized representative shall expire one year after the date indicated on the approved plans if construction has not commenced within that year.

Note: According to section 66.05 (1) (a), Wis. Stats., the local governmental body or building inspector may order the razing of buildings or structures, or portions thereof, where there has been a cessation of normal construction for more than 2 years.

(2) **DEPARTMENT LIMITATION.** A conditional approval of a plan by the department shall not be construed as an assumption of any responsibility for the design.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

Ind 50.18* Inspections. Inspections shall be conducted by an authorized representative of the department to ascertain whether or not the construction or installations conform to the conditionally approved plans, the conditional approval letter, and the provisions of this code.

Note: See Appendix A for an example of the inspection progress report (form SB-224B) and inspection report and orders (form SB-2).

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

Ind 50.19 Approval of materials, equipment and devices. All materials, equipment and devices not specifically mentioned in this code will be permitted if approved in writing by the department. Sufficient data, tests and other evidence to prove that the material, equipment or device is equivalent to the standards required in this code shall be submitted. Upon receipt of a fee and a written request, the department may issue an approval number for the material, piece of equipment or device.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

Ind 50.20* Fees. Fees for petitions for modification, material approval, plan examination and approval, and for inspection of buildings, structures, and heating and ventilating shall be submitted in accordance with the provisions of Wis. Adm. Code section Ind 69.09. Fees shall be submitted at the time the application for approval is submitted. No plan examinations, approvals or inspections will be made until the fees are received.

Note: See Appendix A, reprint of section Ind 69.09, for determination of fees.

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.

*See Appendix A for further explanatory material.

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