



**City of Tulsa**

**Rehabilitation  
Standards**

**Revised:  
1/1/2018**

## **City of Tulsa Rehabilitation Standards and Specifications**

CHAPTER 1.	ADMINISTRATION
CHAPTER 2.	DEFINITIONS
CHAPTER 3.	GENERAL REQUIREMENTS
CHAPTER 4.	LIGHT, VENTILATION AND OCCUPANCY LIMITATIONS
CHAPTER 5.	PLUMBING FACILITIES AND FIXTURE REQUIREMENTS
CHAPTER 6.	MECHANICAL AND ELECTRICAL REQUIREMENTS
CHAPTER 7.	FIRE SAFETY REQUIREMENTS
CHAPTER 8.	ATTACHMENTS AND OTHER LISTED GUIDELINES

### **CHAPTER 1**

#### **ADMINISTRATION**

##### Section 101 - General

#### **SECTION 101 – GENERAL**

**101.1 Title.** These regulations shall be known as the *Rehabilitation Standards* of City of Tulsa, hereinafter referred to as “these standards.”

**101.2 Scope.** The purpose of this document is to provide and make a part of the City of Tulsa’s Department of Grants Administration certain minimum standards of workmanship, quality of materials and standards required. It is intended that these minimal standards in conjunction with specifications in the work write up shall prevail except when in conflict with or less stringent than City Ordinances. The provisions of these standards shall apply to all existing residential and nonresidential structures receiving federal assistance from the U.S. Housing and Urban Development.

**101.3 Intent.** These standards shall be construed to secure its expressed intent, which is to ensure public health, safety and welfare in so far as they are affected by the continued occupancy and maintenance of structures and premises. Existing structures and premises that do not comply with these provisions shall be altered or repaired to provide a minimum level of health and safety as required herein.

## CHAPTER 2

### DEFINITIONS

Section 201 - General  
Section 202 - General Definitions

#### SECTION 201 – GENERAL

**201.1 Scope.** Unless otherwise expressly stated, the following terms shall, for the purposes of these standards, have the meanings shown in this chapter.

**201.2 Interchangeability.** Words stated in the present tense include the future; words stated in the masculine gender include the feminine and neuter; the singular number includes the plural and the plural, the singular.

**201.3 Terms defined in other codes.** Where terms are not defined in these standards and are defined in the *International Building Code*, *International Fire Code*, *International Zoning Code*, *International Plumbing Code*, *International Mechanical Code* or the *ICC Electrical Code*, such terms shall have the meanings ascribed to them as stated in those codes.

**201.4 Terms not defined.** Where terms are not defined through the methods authorized by this section, such terms shall have ordinarily accepted meanings such as the context implies.

**201.5 Parts.** Whenever the words “dwelling unit,” “dwelling,” “premises,” “building,” “rooming house,” “rooming unit” “housekeeping unit” or “story” are stated in these standards, they shall be construed as though they were followed by the words “or any part thereof.”

#### SECTION 202 - GENERAL DEFINITIONS

**APPROVED.** Approved by the code official.

**BASEMENT.** That portion of a building which is partly or completely below grade.

**BATHROOM.** A room containing plumbing fixtures including a bathtub or shower.

**BEDROOM.** Any room or space used or intended to be used for sleeping purposes in either a dwelling or sleeping unit.

**CENTRAL HEATING.** The heating system permanently installed and adjusted so as to provide the distribution of heat to all habitable rooms, bathrooms, and water closet compartments from a source outside of these rooms

**CODE OFFICIAL.** The official who is charged with the administration and enforcement of these standards, or any duly authorized representative.

**DWELLING UNIT.** A single unit providing complete, independent living facilities for one or more persons, including permanent provisions for living, sleeping, eating, cooking and sanitation.

**EASEMENT.** That portion of land or property reserved for present or future use by a person or agency other than the legal fee owner(s) of the property. The easement shall be permitted to be for use under, on or above a said lot or lots.

**EXTERIOR PROPERTY.** The open space on the premises and on adjoining property under the control of owners or operators of such premises.

**EXTERMINATION.** The control and elimination of insects, rats or other pests by eliminating their harborage places; by removing or making inaccessible materials that serve as their food; by poison spraying, fumigating, trapping or by any other approved pest elimination methods.

**FAMILY.** An individual or married couple and the children thereof with not more than two other persons related directly to the individual or married couple by blood or marriage; or a group of not more than five unrelated (excluding servants) persons, living together as a single housekeeping unit in a dwelling unit.

**GUARD.** A building component or a system of building components located at or near the open sides of elevated walking surfaces that minimizes the possibility of a fall from the walking surface to a lower level.

**HABITABLE SPACE.** Space in a structure for living, sleeping, eating or cooking. Bathrooms, toilet rooms, closets, halls, storage or utility spaces, and similar areas are not considered habitable spaces.

**HOUSEKEEPING UNIT.** A room or group of rooms forming a single habitable space equipped and intended to be used for living, sleeping, cooking and eating which does not contain, within such a unit, a toilet, lavatory and bathtub or shower.

**IMMINENT DANGER.** A condition which could cause serious or life-threatening injury or death at any time.

**INFESTATION.** The presence, within or contiguous to, a structure or premises of insects, rats, vermin or other pests.

**OCCUPANCY.** The purpose for which a building or portion thereof is utilized or occupied.

**OCCUPANT.** Any individual living or sleeping in a building, or having possession of a space within a building.

**OCCUPIABLE WORK SPACE.** Mercantile, business, factory and similar occupancies in which people are employed must be kept at a temperature of at least 65°F (18°C) during the hours that employees are working. People cannot be expected to work productively and remain in good health if their workplace is uncomfortable. The 65°F (18°C) minimum is lower than required for residential occupancies and is intended to apply to the typical workplace having sedentary employee activities.

**OPENABLE AREA.** That part of a window, skylight or door which is available for unobstructed ventilation and which opens directly to the outdoors.

**OPERATOR.** Any person who has charge, care or control of a structure or premises which is let or offered for occupancy.

**OWNER.** Any person, agent, operator, firm or corporation having a legal or equitable interest in the property; or recorded in the official records of the state, county or municipality as holding title to the property; or otherwise having control of the property, including the guardian of the estate of any such person, and the executor or administrator of the estate of such person if ordered to take possession of real property by a court.

**PERSON.** An individual, corporation, partnership or any other group acting as a unit.

**PLUMBING.** The practice, materials, and fixtures used in the installations, maintenance, extensions and alteration of all piping, fixtures, appliances, and appurtenances within the scope of the City of Tulsa plumbing code.

**PLUMBING FIXTURE.** A receptacle or device which is either permanently or temporarily connected to the water distribution system of the premises, and demands a supply of water therefrom; or discharges used water, liquid-borne waster materials, or waste either directly or indirectly to the drainage system of the premises; or which requires both a water supply connection and discharge to the drainage system of the premises.

**PREMISES.** A lot, plot or parcel of land, easement or public way, including any structures thereon.

**RESIDENTIAL COMMON AREAS (Interior or Exterior)** – defined as areas which are commonly used by more than one occupant on a regular bases. Residential common areas are defined as, but not limited to living rooms, dining rooms, halls, and porches.

**PUBLIC WAY.** Any street, alley or similar parcel of land essentially unobstructed from the ground to the sky, which is deeded, dedicated or otherwise permanently appropriated to the public for public use.

**ROOMING HOUSE.** A building arranged or occupied for lodging, with or without meals, for compensation and not occupied as a one- or two-family dwelling.

**ROOMING UNIT.** Any room or group of rooms forming a single habitable unit occupied or intended to be occupied for sleeping or living, but not for cooking purposes.

**RUBBISH.** Combustible and noncombustible waste materials, except garbage; the term shall include the residue from the burning of wood, coal, coke and other combustible materials, paper, rags, cartons, boxes, wood, excelsior, rubber, leather, tree branches, yard trimmings, tin cans, metals, mineral matter, glass, crockery and dust and other similar materials.

**[B] SLEEPING UNIT.** A room or space in which people sleep, which can also include permanent provisions for living, eating and either sanitation or kitchen facilities, but not both. Such rooms and spaces that are also part of a dwelling unit are not sleeping units.

**STRICT LIABILITY OFFENSE.** An offense in which the prosecution in a legal proceeding is not required to prove criminal intent as a part of its case. It is enough to prove that the defendant either did an act which was prohibited, or failed to do an act which the defendant was legally required to do.

**STRUCTURE.** That which is built or constructed or a portion thereof.

**TENANT.** A person, corporation, partnership or group, whether or not the legal owner of record, occupying a building or portion thereof as a unit.

**TOILET ROOM.** A room containing a water closet or urinal but not a bathtub or shower.

**VENTILATION.** The natural or mechanical process of supplying conditioned or unconditioned air to, or removing such air from, any space.

**WORKMANLIKE.** Executed in a skilled manner; e.g., generally plumb, level, square, in line, undamaged and without marring adjacent work.

**YARD.** An open space on the same lot with a structure.

## CHAPTER 3

### GENERAL REQUIREMENTS

- Section 301 - General
- Section 302 - Exterior Property Areas
- Section 303 - Swimming Pools, Spas and Hot Tubs
- Section 304 - Exterior Structure
- Section 305 - Interior Structure
- Section 306 - Handrails and Guardrails
- Section 307 - Extermination

#### SECTION 301 – GENERAL

**301.1 Scope.** The provisions of this chapter shall govern the minimum conditions and the responsibilities of general sections of structures and exterior property.

#### SECTION 302 - EXTERIOR PROPERTY AREAS

**302.1 Sanitation.** All exterior property and premises shall be maintained in a clean, safe and sanitary condition. The occupant shall keep that part of the exterior property which such occupant occupies or controls in a clean and sanitary condition.

**302.2 Grading and drainage.** All premises shall be graded and maintained to prevent the erosion of soil and to prevent the accumulation of stagnant water thereon, or within any structure located thereon. **Exception:** Approved retention areas and reservoirs.

**302.3 Sidewalks and driveways.** All sidewalks, walkways, stairs, driveways, parking spaces and similar areas shall be kept in a proper state of repair, and maintained free from hazardous conditions.

**302.4 Rodent harborage.** All structures and exterior property shall be kept free from rodent harborage and infestation. Where rodents are found, they shall be promptly exterminated by approved processes which will not be injurious to human health. After extermination, proper precautions shall be taken to eliminate rodent harborage and prevent re-infestation.

**302.5 Exhaust vents.** Pipes, ducts, conductors, fans or blowers shall not discharge gases, steam, vapor, hot air, grease, smoke, odors or other gaseous or particulate wastes directly upon abutting or adjacent public or private property or that of another tenant.

**302.6 Accessory structures.** All accessory structures, including detached garages, fences and walls, shall be maintained structurally sound and in good repair.

## **SECTION 303 - SWIMMING POOLS, SPAS AND HOT TUBS**

**303.1 Swimming pools.** Swimming pools shall be maintained in a clean and sanitary condition, and in good repair.

**303.2 Enclosures.** Private swimming pools, hot tubs and spas, containing water more than 24 inches (610 mm) in depth shall be completely surrounded by a fence or barrier at least 48 inches (1219 mm) in height above the finished ground level measured on the side of the barrier away from the pool. Gates and doors in such barriers shall be self-closing and self-latching. Where the self-latching device is less than 54 inches (1372 mm) above the bottom of the gate, the release mechanism shall be located on the pool side of the gate. Self-closing and self latching gates shall be maintained such that the gate will positively close and latch when released from an open position of 6 inches (152 mm) from the gatepost. No existing pool enclosure shall be removed, replaced or changed in a manner that reduces its effectiveness as a safety barrier.

**Exception:** Spas or hot tubs with a safety cover that complies with ASTM F 1346 shall be exempt from the provisions of this section.

## **SECTION 304 - EXTERIOR STRUCTURE**

**304.1 General.** The exterior of a structure shall be maintained in good repair, structurally sound and sanitary so as not to pose a threat to the public health, safety or welfare.

**304.2 Protective treatment.** All exterior surfaces, including but not limited to, doors, door and window frames, cornices, porches, trim, balconies, decks and fences shall be maintained in good condition. Exterior wood surfaces, other than decay resistant woods, shall be protected from the elements and decay by painting or other protective covering or treatment. Peeling, flaking and chipped paint shall be eliminated and surfaces repainted. All siding and masonry joints as well as those between the building envelope and the perimeter of windows, doors, and skylights shall be maintained weather resistant and water tight. All metal surfaces subject to rust or corrosion shall be coated to inhibit such rust and corrosion and all surfaces with rust or corrosion shall be stabilized and coated to inhibit future rust and corrosion. Oxidation stains shall be removed from exterior surfaces. Surfaces designed for stabilization by oxidation are exempt from this requirement.

**304.3 Premises identification.** Buildings shall have approved address numbers placed in a position to be plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. Address numbers shall be Arabic numerals or alphabet letters. Numbers shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5 inch (12.7 mm).

**304.4 Structural members.** All structural members shall be maintained free from deterioration, and shall be capable of safely supporting the imposed dead and live loads.

**304.5 Foundation walls.** All foundation walls shall be maintained plumb and free from open cracks and breaks and shall be kept in such condition so as to prevent the entry of rodents and other pests.



**304.6 Exterior walls.** All exterior walls shall be free from holes, breaks, and loose or rotting materials; and maintained weatherproof and properly surface coated where required to prevent deterioration.

**304.7 Roofs and drainage.** The roof and flashing shall be sound, tight and not have defects that admit rain. Roof drainage shall be adequate to prevent dampness or deterioration in the walls or interior portion of the structure. Roof drains, gutters and downspouts shall be maintained in good repair and free from obstructions. Roof water shall not be discharged in a manner that creates a public nuisance.

**304.8 Decorative features.** All cornices, belt courses, corbels, terra cotta trim, wall facings and similar decorative features shall be maintained in good repair with proper anchorage and in a safe condition.

**304.9 Overhang extensions.** All overhang extensions including, but not limited to canopies, marquees, signs, metal awnings, fire escapes, standpipes and exhaust ducts shall be maintained in good repair and be properly anchored so as to be kept in a sound condition. When required, all exposed surfaces of metal or wood shall be protected from the elements and against decay or rust by periodic application of weather-coating materials, such as paint or similar surface treatment.

**304.10 Stairways, decks, porches and balconies.** Every exterior stairway, deck, porch and balcony, and all appurtenances attached thereto, shall be maintained structurally sound, in good repair, with proper anchorage and capable of supporting the imposed loads.

**304.11 Chimneys and towers.** All chimneys, cooling towers, smoke stacks, and similar appurtenances shall be maintained structurally safe and sound, and in good repair. All exposed surfaces of metal or wood shall be protected from the elements and against decay or rust by periodic application of weather coating materials, such as paint or similar surface treatment.

**304.12 Handrails and guards.** Every handrail and guard shall be firmly fastened and capable of supporting normally imposed loads and shall be maintained in good condition.

**304.13 Window, skylight and door frames.** Every window, skylight, door and frame shall be kept in sound condition, good repair and weather tight.

**304.13.1 Glazing.** All glazing materials shall be maintained free from cracks and holes.

**304.13.2 Windows.** Every window, other than a fixed window, shall be easily operable and capable of being held in open and closed positions by standard window hardware. Single glass window units are not acceptable in any heated living space. All single glass units will be weatherized with approved storm sash or have an approved double pane clad unit installed.

**304.14 Insect screens.** During the period from May 15<sup>th</sup> to September 30<sup>th</sup>, every door, window and other outside opening required for ventilation of habitable rooms, food preparation areas,

food service areas or any areas where products to be included or utilized in food for human consumption are processed, manufactured, packaged or stored shall be supplied with approved tightly fitting screens of not less than 16 mesh per inch (16 mesh per 25 mm), and every screen door used for insect control shall have a self-closing device in good working condition.

**304.15 Doors.** All exterior doors, door assemblies and hardware shall be maintained in good condition. Locks at all entrances to dwelling units and sleeping units shall tightly secure the door. Locks on means of egress doors shall be in accordance with Section 702.3. All exterior doors shall be either a solid core or approved steal clad door. All exterior doors will have a keyed lock and single cylinder dead bolt with 1” throw.

**304.16 Basement and crawlspace hatchways.** Every basement hatchway shall be maintained to prevent the entrance of rodents, rain and surface drainage water. Basement hatchways that provide access to a dwelling unit, rooming unit or housekeeping unit that is rented, leased or let shall be equipped with devices that secure the units from unauthorized entry.

**304.17 Guards for basement windows.** Every basement window that is operable shall be supplied with rodent shields, storm windows or other approved protection against the entry of rodents. Doors, windows or hatchways for dwelling units, room units or housekeeping units shall be provided with devices designed to provide security for the occupants and property within.

## **SECTION 305 - INTERIOR STRUCTURE**

**305.1 General.** The interior of a structure and equipment therein shall be maintained in good repair, structurally sound and in a sanitary condition.

**305.2 Structural members.** All structural members shall be maintained structurally sound, and be capable of supporting the imposed loads.

**305.3 Interior surfaces.** All interior surfaces, including windows and doors, shall be maintained in good, clean and sanitary condition. Peeling, chipping, flaking or abraded paint shall be repaired, removed or covered. Cracked or loose plaster, decayed wood and other defective surface conditions shall be corrected.

**305.4 Stairs and walking surfaces.** Every stair, ramp, landing, balcony, porch, deck or other walking surface shall be maintained in sound condition and good repair.

**305.5 Handrails and guards.** Every handrail and guard shall be firmly fastened and capable of supporting normally imposed loads and shall be maintained in good condition.

**305.6 Interior doors.** Every interior door shall fit reasonably well within its frame and shall be capable of being opened and closed by being properly and securely attached to jambs, headers or tracks as intended by the manufacturer of the attachment hardware.

## **SECTION 306 - HANDRAILS AND GUARDRAILS**

**306.1 General.** Every exterior and interior flight of stairs having more than four risers shall have a handrail on one side of the stair and every open portion of a stair, landing, balcony, porch, deck, ramp or other walking surface which is more than 30 inches (762 mm) above the floor or grade below shall have guards. Handrails shall not be less than 30 inches (762 mm) high or more than 42 inches (1067 mm) high measured vertically above the nosing of the tread or above the finished floor of the landing or walking surfaces. Guards shall not be less than 30 inches (762 mm) high above the floor of the landing, balcony, porch, deck, or ramp or other walking surface.

**Exception:** Guards shall not be required where exempted by the adopted building code.

## **SECTION 307 – EXTERMINATION**

**307.1 Infestation.** All structures shall be kept free from insect and rodent infestation. All structures in which insects or rodents are found shall be promptly exterminated by approved processes that will not be injurious to human health. After extermination, proper precautions shall be taken to prevent re-infestation.

## CHAPTER 4

### LIGHT AND VENTILATION

- Section 401 - General
- Section 402 - Light
- Section 403 - Ventilation
- Section 404 - Occupancy Limitations

#### SECTION 401 – GENERAL

**401.1 Scope.** The provisions of this chapter shall govern the minimum conditions and standards for light, ventilation and space for occupying a structure. All applicable City of Tulsa ordinances will also be required for these standards.

#### SECTION 402 – LIGHT

**402.1 Habitable spaces.** Every habitable space shall have at least one window of approved size facing directly to the outdoors or to a court. The minimum total glazed area for every habitable space shall be 8 percent of the floor area of such room. Wherever walls or other portions of a structure face a window of any room and such obstructions are located less than 3 feet (914 mm) from the window and extend to a level above that of the ceiling of the room, such window shall not be deemed to face directly to the outdoors nor to a court and shall not be included as contributing to the required minimum total window area for the room.

**Exception:** Where natural light for rooms or spaces without exterior glazing areas is provided through an adjoining room, the unobstructed opening to the adjoining room shall be at least 8 percent of the floor area of the interior room or space, but not less than 25 square feet (2.33 m<sup>2</sup>). The exterior glazing area shall be based on the total floor area being served.

**402.2 Common halls and stairways.** Every common hall and stairway in residential occupancies, other than in one- and two family dwellings, shall be lighted at all times with at least a 60- watt standard incandescent light bulb for each 200 square feet (19 m<sup>2</sup>) of floor area or equivalent illumination, provided that the spacing between lights shall not be greater than 30 feet (9144 mm). In other than residential occupancies, means of egress, including exterior means of egress, stairways shall be illuminated at all times the building space served by the means of egress is occupied with a minimum of 1 foot candle (11 lux) at floors, landings and treads.

**402.3 Other spaces.** All other spaces shall be provided with natural or artificial light sufficient to permit the maintenance of sanitary conditions, and the safe occupancy of the space and utilization of the appliances, equipment and fixtures.

#### SECTION 403 – VENTILATION

**403.1 Habitable spaces.** Every habitable space shall have at least one operable window. The total open area of the window in every room shall be equal to at least 45 percent of the minimum glazed area required in Section 402.1.

**Exception:** Where rooms and spaces without openings to the outdoors are ventilated through an adjoining room, the unobstructed opening to the adjoining room shall be at least 8 percent of the floor area of the interior room or space, but not less than 25 square feet (2.33 m<sup>2</sup>). The ventilation openings to the outdoors shall be based on a total floor area being ventilated.

**403.2 Bathrooms and toilet rooms.** Every bathroom and toilet room shall comply with the ventilation requirements for habitable spaces as required by Section 403.1, except that a window shall not be required in such spaces equipped with a mechanical ventilation system. Air exhausted by a mechanical ventilation system from a bathroom or toilet room shall discharge to the outdoors and shall not be re-circulated.

**403.3 Cooking facilities.** Unless approved through the certificate of occupancy, cooking shall not be permitted in any rooming unit or dormitory unit, and a cooking facility or appliance shall not be permitted to be present in the rooming unit or dormitory unit.

**Exceptions:** 1. Where specifically approved in writing by the code official. 2. Devices such as coffee pots and microwave ovens shall not be considered cooking appliances.

**403.4 Process ventilation.** Where injurious, toxic, irritating or noxious fumes, gases, dusts or mists are generated, a local exhaust ventilation system shall be provided to remove the contaminating agent at the source. Air shall be exhausted to the exterior and not be re-circulated to any space.

**403.5 Clothes dryer exhaust.** Clothes dryer exhaust systems shall be independent of all other systems and shall discharge to the outdoors and shall not be re-circulated.

## **SECTION 404 - OCCUPANCY LIMITATIONS**

**404.** For the purpose of these standards all occupancy limits must comply to the City of Tulsa existing structure ordinance Title 55.

## CHAPTER 5

### PLUMBING FACILITIES AND FIXTURE REQUIREMENTS

- Section 501 - General
- Section 502 - Required Facilities
- Section 503 - Toilet Rooms
- Section 504 - Plumbing Systems And Fixtures
- Section 505 - Water System
- Section 506 - Sanitary Drainage System

#### SECTION 501 – GENERAL

**501.1 Scope.** The provisions of this chapter shall govern the minimum plumbing systems, facilities and plumbing fixtures to be provided.

#### SECTION 502 - REQUIRED FACILITIES

**502.1 Dwelling units.** Every dwelling unit shall contain its own bathtub or shower, lavatory, water closet and kitchen sink which shall be maintained in a sanitary, safe working condition. The lavatory shall be placed in the same room as the water closet or located in close proximity to the door leading directly into the room in which such water closet is located. A kitchen sink shall not be used as a substitute for the required lavatory.

**502.2 Rooming houses.** At least one water closet, lavatory and bathtub or shower shall be supplied for each four rooming units.

**502.3 Hotels.** Where private water closets, lavatories and baths are not provided, one water closet, one lavatory and one bathtub or shower having access from a public hallway shall be provided on each floor for each ten occupants.

**502.4 Employees' facilities.** A minimum of one water closet, one lavatory and one drinking facility shall be available to employees.

**502.4.1 Drinking facilities.** Drinking facilities shall be a drinking fountain, water cooler, bottled water cooler or disposable cups next to a sink or water dispenser. Drinking facilities shall not be located in toilet rooms or bathrooms.

#### SECTION 503 - TOILET ROOMS

**503.1 Privacy.** Toilet rooms and bathrooms shall provide privacy and shall not constitute the only passageway to a hall or other space, or to the exterior. A door and interior locking device shall be provided for all common or shared bathrooms and toilet rooms in a multiple dwelling.

**503.2 Location.** Toilet rooms and bathrooms serving hotel units, rooming units or dormitory units or housekeeping units, shall have access by traversing not more than one flight of stairs and shall have access from a common hall or passageway.

**503.3 Location of employee toilet facilities.** Toilet facilities shall have access from within the employees' working area. The required toilet facilities shall be located not more than one story above or below the employees' working area and the path of travel to such facilities shall not exceed a distance of 500 feet (152 m). Employee facilities shall either be separate facilities or combined employee and public facilities.

**Exception:** Facilities that are required for employees in storage structures or kiosks, which are located in adjacent structures under the same ownership, lease or control, shall not exceed a travel distance of 500 feet (152 m) from the employees' regular working area to the facilities.

**503.4 Floor surface.** In other than dwelling units, every toilet room floor shall be maintained to be a smooth, hard, nonabsorbent surface to permit such floor to be easily kept in a clean and sanitary condition.

## **SECTION 504 - PLUMBING SYSTEMS AND FIXTURES**

**504.1 General.** All plumbing fixtures shall be properly installed and maintained in working order, and shall be kept free from obstructions, leaks and defects and be capable of performing the function for which such plumbing fixtures are designed. All plumbing fixtures shall be maintained in a safe, sanitary and functional condition.

**504.2 Fixture clearances.** Plumbing fixtures shall have adequate clearances for usage and cleaning.

**504.3 Plumbing system hazards.** Where it is found that a plumbing system in a structure constitutes a hazard to the occupants or the structure by reason of inadequate service, inadequate venting, cross connection, back siphon age, improper installation, deterioration or damage or for similar reasons, the code official shall require the defects to be corrected to eliminate the hazard.

## **SECTION 505 - WATER SYSTEM**

**505.1 General.** Every sink, lavatory, bathtub or shower, drinking fountain, water closet or other plumbing fixture shall be properly connected to either a public water system or to an approved private water system. All kitchen sinks, lavatories, laundry facilities, bathtubs and showers shall be supplied with hot or tempered and cold running water in accordance with the *City of Tulsa Title 56 Plumbing Code*.

**505.2 Contamination.** The water supply shall be maintained free from contamination, and all water inlets for plumbing fixtures shall be located above the flood-level rim of the fixture. Shampoo basin faucets, janitor sink faucets and other hose bibs or faucets to which hoses are attached and left in place, shall be protected by an approved atmospheric-type vacuum breaker or an approved permanently attached hose connection vacuum breaker.

**505.3 Supply.** The water supply system shall be installed and maintained to provide a supply of water to plumbing fixtures, devices and appurtenances in sufficient volume and at pressures adequate to enable the fixtures to function properly, safely, and free from defects and leaks.

**505.4 Water heating facilities.** Water heating facilities shall be properly installed, maintained and capable of providing an adequate amount of water to be drawn at every required sink, lavatory, bathtub, shower and laundry facility at a temperature of not less than 110°F (43°C). A gas-burning water heater shall not be located in any bathroom, toilet room, bedroom, or other occupied room normally kept closed, unless adequate combustion air is provided. An approved combination temperature and pressure-relief valve and relief valve discharge pipe shall be properly installed and maintained on water heaters. Every gas burning water heater shall be vented to a chimney or other venting device leading to outdoor space. All water heating units shall comply with *City of Tulsa Title 56 Plumbing Code*

## **SECTION 506 - SANITARY DRAINAGE SYSTEM**

**506.1 General.** All plumbing fixtures shall be properly connected to either a public sewer system or to an approved private sewage disposal system.

**506.2 Maintenance.** Every plumbing stack, vent, waste and sewer line shall function properly and be kept free from obstructions, leaks and defects.

## **SECTION 507 - STORM DRAINAGE**

**507.1 General.** Drainage of roofs, paved areas, yards, courts, swimming pools, spas, hot tubs and other open areas on the premises shall not be discharged in a manner that creates a public nuisance.



## CHAPTER 6

### MECHANICAL AND ELECTRICAL REQUIREMENTS

- Section 601 - General
- Section 602 - Heating Facilities
- Section 603 - Mechanical Equipment
- Section 604 - Electrical Facilities
- Section 605 - Electrical Equipment
- Section 606 - Elevators, Escalators and Dumbwaiters
- Section 607 - Duct Systems

#### SECTION 601 – GENERAL

**601.1 Scope.** The provisions of this chapter shall govern the minimum mechanical and electrical facilities and equipment to be provided.

#### SECTION 602 - HEATING FACILITIES

**602.1 Facilities required.** Heating facilities shall be provided in structures as required by this section.

**602.2 Residential occupancies.** Dwellings shall be provided with heating facilities capable of maintaining a room temperature of 68°F (20°C) in all habitable rooms, bathrooms and toilet rooms based on the winter outdoor design temperature for the locality indicated in Appendix D of the *International Plumbing Code*. Each residential unit will have properly installed heating Is the heating equipment capable of providing adequate heat (either directly or indirectly) to all rooms used for living. Cooking appliances shall not be used to provide space heating to meet the requirements of this section.

**Exception:** In areas where the average monthly temperature is above 30°F (-1°C), a minimum temperature of 65°F (18°C) shall be maintained.

**602.3 Heat supply.** Every owner and operator of any building who rents, leases or lets one or more dwelling units or sleeping units on terms, either expressed or implied, to furnish heat to the occupants thereof shall supply heat during the period from October 1<sup>st</sup> to April 15<sup>th</sup> to maintain a temperature of not less than 68°F (20°C) in all habitable rooms, bathrooms, and toilet rooms.

**Exceptions:** 1. When the outdoor temperature is below the winter outdoor design temperature for the locality, maintenance of the minimum room temperature shall not be required provided that the heating system is operating at its full design capacity. The winter outdoor design temperature for the locality shall be as indicated in Appendix D of the *International Plumbing Code*. 2. In areas where the average monthly temperature is above 30°F (-1°C) a minimum temperature of 65°F (18°C) shall be maintained.

**602.4 Occupiable work spaces.** Indoor occupiable work spaces shall be supplied with heat during the period from October 1<sup>st</sup> to April 15<sup>th</sup> to maintain a temperature of not less than 65°F (18°C) during the period the spaces are occupied.

**Exceptions:** 1. Processing, storage and operation areas that require cooling or special temperature conditions. 2. Areas in which persons are primarily engaged in vigorous physical activities.

**602.5 Room temperature measurement.** The required room temperatures shall be measured 3 feet (914 mm) above the floor near the center of the room and 2 feet (610 mm) inward from the center of each exterior wall.

**602.6 Unapproved heating units.** All units will be free from un-vented fuel burning heaters and space heaters, or any other types of unsafe heating conditions as determined the City of Tulsa, WIN/Housing Inspectors.

### **SECTION 603 - MECHANICAL EQUIPMENT**

**603.1 Mechanical appliances.** All mechanical appliances, fireplaces, solid fuel-burning appliances, cooking appliances and water heating appliances shall be properly installed and maintained in a safe working condition, and shall be capable of performing the intended function.

**603.2 Removal of combustion products.** All fuel-burning equipment and appliances shall be connected to an approved chimney or vent.

**Exception:** Fuel-burning equipment and appliances which are labeled for un-vented operation.

**603.3 Clearances.** All required clearances to combustible materials shall be maintained.

**603.4 Safety controls.** All safety controls for fuel-burning equipment shall be maintained in effective operation.

**603.5 Combustion air.** A supply of air for complete combustion of the fuel and for ventilation of the space containing the fuel-burning equipment shall be provided for the fuel-burning equipment.

**603.6 Energy conservation devices.** Devices intended to reduce fuel consumption by attachment to a fuel-burning appliance, to the fuel supply line thereto, or to the vent outlet or vent piping there from, shall not be installed unless labeled for such purpose and the installation is specifically approved.

### **SECTION 604 - ELECTRICAL FACILITIES**

**604.1 Facilities required.** Every occupied building shall be provided with an electrical system in compliance with the requirements of this section and Section 605.

**604.2 Service.** The size and usage of appliances and equipment shall serve as a basis for determining the need for additional facilities in accordance with the *City of Tulsa Electrical Code Title 52*.

**604.3 Electrical system hazards.** Where it is found that the electrical system in a structure constitutes a hazard to the occupants or the structure by reason of inadequate service, improper fusing, insufficient receptacle and lighting outlets, improper wiring or installation, deterioration or damage, or for similar reasons, the code official shall require the defects to be corrected to eliminate the hazard.

## **SECTION 605 - ELECTRICAL EQUIPMENT**

**605.1 Installation.** All electrical equipment, wiring and appliances shall be properly installed and maintained in a safe and approved manner.

**605.2 Receptacles.** Every habitable space in a dwelling shall contain at least two separate and remote receptacle outlets. Every laundry area shall contain at least one grounded-type receptacle or a receptacle with a ground fault circuit interrupter. Every bathroom shall contain at least one receptacle. Any new bathroom receptacle outlet shall have ground fault circuit interrupter protection.

**605.3 Luminaires.** Every public hall, interior stairway, toilet room, kitchen, bathroom, laundry room, boiler room and furnace room shall contain at least one electric luminaire.

**605.4 Minimum Standards.** For the purpose of these standards all habitable spaces will have a minimum of:

- A. At least two working outlets or one working outlet and one working light fixture.
- B. One ground fault circuit interrupter (GFCI) receptacle for the kitchen and bathroom(s) will be installed to City Code.
- C. All units will have a minimum of one carbon monoxide detector. The detector will be installed per Attachment "A" of these standards.

## **SECTION 606 - ELEVATORS, ESCALATORS AND DUMBWAITERS**

**606.1 General.** Elevators, dumbwaiters and escalators shall be maintained in compliance with ASME A17.1. The most current certification of inspection shall be on display at all times within the elevator or attached to the escalator or dumbwaiter, or the certificate shall be available for public inspection in the office of the building operator. The inspection and tests shall be performed at not less than the periodical intervals listed in ASME A17.1, Appendix N, except where otherwise specified by the authority having jurisdiction.

**606.2 Elevators.** In buildings equipped with passenger elevators, at least one elevator shall be maintained in operation at all times when the building is occupied.

**Exception:** Buildings equipped with only one elevator shall be permitted to have the elevator temporarily out of service for testing or servicing.

## **SECTION 607 - DUCT SYSTEMS**

**607.1 General.** Duct systems shall be maintained free of obstructions and shall be capable of performing the required function.

## CHAPTER 7

### FIRE SAFETY REQUIREMENTS

- Section 701 - General
- Section 702 - Means of Egress
- Section 703 - Fire-Resistance Ratings
- Section 704 - Fire Protection Systems

#### SECTION 701 – GENERAL

**701.1 Scope.** The provisions of this chapter shall govern the minimum conditions and standards for fire safety relating to structures and exterior premises, including fire safety facilities and equipment to be provided.

#### SECTION 702 - MEANS OF EGRESS

**702.1 General.** A safe, continuous and unobstructed path of travel shall be provided from any point in a building or structure to the public way. Means of egress shall comply with the *City of Tulsa Title 14 Fire Prevention Code*.

**702.2 Aisles.** The required width of aisles in accordance with the *City of Tulsa Title 14 Fire Prevention Code* shall be unobstructed.

**702.3 Locked doors.** All means of egress doors shall be readily openable from the side from which egress is to be made without the need for keys, special knowledge or effort, except where the door hardware conforms to that permitted by the *City of Tulsa Title 14 Fire Prevention Code*.

**702.4 Emergency escape openings.** Required emergency escape openings shall be maintained in accordance with the code in effect at the time of construction, and the following. Required emergency escape and rescue openings shall be operational from the inside of the room without the use of keys or tools. Bars, grilles, grates or similar devices are permitted to be placed over emergency escape and rescue openings provided the minimum net clear opening size complies with the code that was in effect at the time of construction and such devices shall be releasable or removable from the inside without the use of a key, tool or force greater than that which is required for normal operation of the escape and rescue opening.

#### SECTION 703 FIRE-RESISTANCE RATINGS

**703.1 Fire-resistance-rated assemblies.** The required fire resistance rating of fire-resistance-rated walls, fire stops, shaft enclosures, partitions and floors shall be maintained.

**703.2 Opening protectives.** Required opening protectives shall be maintained in an operative condition. All fire and smokestop doors shall be maintained in operable condition. Fire doors and smoke barrier doors shall not be blocked or obstructed or otherwise made inoperable.

## **SECTION 704 - FIRE PROTECTION SYSTEMS**

**704.1 General.** All systems, devices and equipment to detect a fire, actuate an alarm, or suppress or control a fire or any combination thereof shall be maintained in an operable condition at all times in accordance with the *International Fire Code*.

**704.2 Smoke alarms.** Single or multiple-station smoke alarms shall be installed and maintained in Groups R-2, R-3, R-4 and in dwellings not regulated in Group R occupancies, regardless of occupant load at all of the following locations: 1. On the ceiling or wall outside of each separate sleeping area in the immediate vicinity of bedrooms. 2. In each room used for sleeping purposes. 3. In each story within a dwelling unit, including basements and cellars but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level. Single or multiple-station smoke alarms shall be installed in other groups in accordance with the *City of Tulsa Title 14 Fire Prevention Code*.

**704.3 Power source.** In Group R occupancies and in dwellings not regulated as Group R occupancies, single-station smoke alarms shall receive their primary power from the building wiring provided that such wiring is served from a commercial source and shall be equipped with a battery backup. Smoke alarms shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for over current protection. **Exception:** Smoke alarms are permitted to be solely battery operated in buildings where no construction is taking place, buildings that are not served from a commercial power source and in existing areas of buildings undergoing alterations or repairs that do not result in the removal of interior wall or ceiling finishes exposing the structure, unless there is an attic, crawl space or basement available which could provide access for building wiring without the removal of interior finishes.

**704.4 Interconnection.** Where more than one smoke alarm is required to be installed within an individual dwelling unit in Group R-2, R-3, R-4 and in dwellings not regulated as Group R occupancies, the smoke alarms shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms in the individual unit. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed.

**Exceptions:** 1. Interconnection is not required in buildings which are not undergoing alterations, repairs, or construction of any kind. 2. Smoke alarms in existing areas are not required to be interconnected where alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing the structure, unless there is an attic, crawl space or basement available which could provide access for interconnection without the removal of interior finishes.

**704.5 Flammable Matter.** Highly flammable or explosive matter, such as paints, volatile oils and cleaning fluids, or combustible refuse, such as waster paper, boxes shall not be accumulated or stored on residential properties except in reasonable quantities consistent with normal usage.

## CHAPTER 8

### ATTACHMENTS AND OTHER LISTED GUIDELINES

- Section 801 - General
- Section 802 - Attachments
- Section 803 - Other Listed Guidelines

#### SECTION 801 – GENERAL

**801.1 Scope.** The provisions of this chapter shall govern the minimum conditions and standards for fire safety relating to structures and exterior premises, including fire safety facilities and equipment to be provided.

#### SECTION 802 - ATTACHMENTS

**802.1 Specification.** These standards will comply with the WIN/Housing Rehabilitation Specifications.

#### SECTION 803 - OTHER LISTED GUIDELINES

##### 803.1 Listed Guidelines.

WIN/Housing Rehabilitation Specifications

U.S. Housing and Urban Development – Housing Quality Standards (HQS)

City of Tulsa, Title 55, Existing Structures Code

City of Tulsa, Title 14, Fire Prevention Code

City of Tulsa, Title 52, Electrical Code

City of Tulsa, Title 56, Plumbing Code

City of Tulsa, Title 59, Mechanical Code