

Chapter 22.04. General Development Standards

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22.04.01. General Provisions

- A. **Purpose.** The purpose of this Chapter is to establish clear and consistent standards for development across zoning districts to achieve the following goals:
1. Promote efficient and streamlined development throughout the City,
 2. Ensure consistency in land use and design within districts of similar corridors,
 3. Support orderly, sustainable growth in line with the City’s planning vision, and
 4. Encourage the creation of cohesive, well-integrated neighborhoods.
- B. **Applicability.** The standards of this Chapter shall apply as summarized in **Table #####**.

Table ##### General Development Standards Applicability Overview						
Key: ● = Standards apply to entire development site ○ = Standards apply to portion of site or building(s) impacted by development activity Blank = Standards do not apply		<i>New development</i>	<i>Major redevelopment</i>	<i>Intermediate redevelopment</i>	<i>Minor redevelopment</i>	<i>Change of use</i>
		<i>Standard</i>	<i>Reference</i>			
Fence and Wall	#####	●	●	○	○	
Screening; Waste, Recycling, and Grease Disposal Receptacles [1]	#####	●	●	●		
Screening; Ground and Wall Mounted Mechanical Units [2]	#####	●	●			
Screening; Roof Mounted Mechanical Units [1]	#####	●				
Performance Standards	#####	●	●	●	●	●
Vision Triangle [3]	#####	●	●		○	
Outdoor Lighting; Prohibitions	#####	●	●	●	●	●
Outdoor Lighting; Exemptions	#####	●	●	●	●	●
Outdoor Lighting; LED Fixtures	#####	●	●			
Outdoor Lighting; Lighting Standards in Footcandles (Fc) [4]	#####	●				
Outdoor Lighting; Fixture Classification [5]	#####	●	●			
Outdoor Lighting; Pole and Fixture Design [6]	#####	●	●			
Outdoor Lighting; Mounting Height [5]	#####	●	●			
Outdoor Lighting; specific Lighting Type Standards [5]	#####	●	●			
Notes						
[1] Standards shall apply to multi-unit, mixed-use, and nonresidential development only. [2] Location standards shall apply to all development. All other standards shall apply to multi-unit, mixed use, and nonresidential development only. [3] Standards shall perpetually apply to landscape and the placement of temporary structures. [4] Perpetual compliance with standards is required. [5] Standard shall apply whenever new lighting is installed.						

22.04.02. Fences and Walls

- A. **Purpose.** The purpose of the fence and wall standards is to regulate the location, design, and maintenance of fences and walls to allow their use for safety, security, privacy, and screening while preserving Waukesha’s natural topography, maintaining visual harmony, and enhancing community appearance.
- B. **Applicability.** The fence and wall standards established in this section shall apply as detailed in **Table #####**.
- C. **Location.** Unless otherwise required, all fences and walls allowed in this Section shall be located in accordance with the following:
1. **All Districts.**
 - a. On or up to the property lines, except where specific setbacks are required,
 - b. At least one foot from any public right-of-way,
 - c. In a manner that complies with vision triangle standards (**Section #####**),
 - d. At least 18 inches from underground utility access structures, drainage structures, or pedestals for telephone, electric, cable, or gas, and in no way that interferes with utility maintenance,
 - e. In a manner that does not block access to above-ground utility structures or fire hydrants,
 - f. In a manner that does not inhibit the function of storm drainage structures.
 2. **Residential Districts.** Walls in residential districts shall be limited to:
 - a. Decorative walls up to a maximum height of three feet, set back a minimum of two feet from front and street side property lines, and meeting all materials requirements of **Table #####**, and
 - b. Structural retaining walls necessary to address grade changes.
- D. **Height.**
1. **Maximum Height.** The maximum height of fences or walls shall be as detailed per district and yard / lot line in **Table #####**. If a fence or wall is required by this Code for screening or buffering purposes, it shall be exempt from height restrictions.

Table #### Maximum Fence and Wall Height					
Yard / Lot Line	RN-1, RN-2	RN-3, RN-4	MU, DC	GC, CC, I	LM, GM, MM, OM
Front	4 feet	4 feet	n/a	6 feet	6 feet
Street Side	4 feet [1]	4 feet [1]	n/a	8 feet	8 feet
Interior Side	6 feet	6 feet	n/a	8 feet	8 feet
Rear	6 feet	6 feet	n/a	8 feet	8 feet
Notes					
[1] Maximum height of six feet allowed if fence/wall is set back a minimum of two feet from the street side lot line.					
[2] Fence and wall height standards shall not apply within the A, P, and T districts.					

DIAGRAM TO BE INSERTED HERE LATER IN PROCESS

2. **Exceptions.**
 - a. Fences surrounding outdoor athletic courts, meeting the opacity standards of Section ####, may have a maximum height of 15 feet.
 - b. Fences or walls along a lot line directly abutting a principal arterial or higher classification roadway shall not exceed a height of eight feet.
3. **Materials.** Allowed fence or wall materials shall be as detailed per district in Table ####.

Table #### Fence and Wall Materials							
Key: "A" = Allowed fence and wall materials "P" = Prohibited fence and wall materials							
Material	T	RN-1, RN-2	RN-3, RN-4	MU, DC	GC, CC, I	LM, GM, MM, OM	P
Masonry	P	A	A	A	A	A	A
Stone	P	A	A	A	A	A	A
Decorative Metal	P	A	A	A	A	A	A
Architectural Block	P	A	A	A	A	A	A
Stained, Painted, or Treated Wood	P	A	A	P	P	P	P
Smooth Face Block	P	P	P	P	P	P	P
Wood Composite	P	A	A	A	A	A	A
Vinyl / PVC	P	A	A	A	A	A	A

Table ##### Fence and Wall Materials							
Key: "A" = Allowed fence and wall materials "P" = Prohibited fence and wall materials							
Material	T	RN-1, RN-2	RN-3, RN-4	MU, DC	GC, CC, I	LM, GM, MM, OM	P
Coated Chain Link without Slats/Inserts	P	A [1]	P	P	P	A	A
Coated Chain Link with Slats / Inserts	P	P	P	P	P	A [2]	P
Barbed / Concertina Wire	A	[4]	[4]	[4]	[4]	A [4]	P
Electric Fence	A	P	P	P	P	P	P
Curved / Spear Tip	P	A	A	A	A [3]	A [3]	A
Above Ground Electrified	P	P	P	P	P	P	P
Deer and Other Temporary Fence Material	P	A [5]	P	P	P	P	P
Waste Materials	P	P	P	P	P	P	P
Notes							
[1] Material is allowed in interior side and rear yards and along interior side and rear lot lines, or surrounding outdoor athletic courts only. [2] Material is allowed in interior side and rear yards and along interior side and rear lot lines abutting another property in the same district only. [3] Material is allowed if located a minimum of six feet above ground. [4] Permitted only if installed at a height of at least eight feet above grade. This material may also be used in any district when necessary for the protection of underground utility facilities only.							

4. **Opacity.**

- a. **Maximum Opacity.** The maximum opacity of fences or walls shall be as detailed per district and yard / lot line in **Table #####**. If a fence or wall is required by this Code for screening or buffering purposes, it shall be exempt from opacity restrictions.

Table #### Maximum Fence and Wall Opacity						
Yard / Lot Line	RN-1, RN-2	RN-3, RN-4	MU, DC	GC, CC, I	LM, GM, MM, OM	P
Front	50%	50%	0%	0%	0%	50%
Street Side	20% [1]	20% [1]		0%	100%	50%
Interior Side	100%	100%		100%	100%	100%
Rear	100%	100%		100%	100%	100%
Notes						
[1] Maximum opacity of 100% allowed if fence/wall is set back a minimum of two feet from the street side lot line.						
[2] Opacity standards do not apply to districts not identified in this table.						

5. Exceptions.

- a. Fences surrounding outdoor athletic courts, meeting the maximum height allowance of Section ####, shall have a maximum opacity of 20 percent.
- b. On double-frontage lots, fences or walls may be fully opaque (100 percent) along the rear lot line where it abuts a public right-of-way.

6. Installation and Maintenance.

- a. The standards of this Section shall apply at all times, regardless of whether new development, redevelopment, or other site improvements are proposed.
- b. The finished side of a fence shall face the exterior of the property.
- c. Fences and walls shall be maintained in good repair, clean of visible mold and mildew, and in a safe condition.
- d. Maintenance of fences and walls includes the replacement of missing, decayed, or broken elements and the repair of deteriorated or damaged materials, including sagging sections and posts that lean more than ten degrees from vertical.

22.04.03. Screening

- A. **Purpose.** The purpose of the screening regulations is to minimize views of waste receptacles, mechanical equipment, loading docks, and truck parking areas in order to improve the compatibility between uses and to enhance the appearance of the community. These standards apply to all commercial and industrial districts.
- B. **Applicability.** The screening standards established in this section shall apply as detailed in Table ####.

C. Waste Receptacles.

1. General Requirement.

- a. Waste, recycling, and/or grease disposal receptacles, including trash and recycling dumpsters, shall be screened on all four sides with solid, opaque materials.
- b. This requirement shall not apply to publicly accessible trash and recycling bins found in streetscapes, parks, trails, or other areas intended for customer or visitor use.

2. Location.

- a. Waste, recycling, and/or grease disposal receptacle enclosures shall not occupy areas designated for parking spaces or loading areas.
- b. Waste, recycling, and/or grease disposal receptacle enclosures shall not be located between the primary building and the street right-of-way.

3. Dimensions.

- a. Waste, recycling, and/or grease disposal receptacle enclosure walls shall be of sufficient height to completely screen receptacles from view from the public right-of-way, abutting property, on-site walkways, or other areas intended for customer or visitor use.
- b. Waste, recycling, and/or grease disposal receptacle enclosures shall be of an adequate size to accommodate all on-site waste receptacles.

4. Design.

- a. The exterior of each enclosure shall use materials that match at least one of the primary building's exterior materials and colors, in accordance with **Section #####**.
- b. For minor redevelopments in the MU, GC, and DC districts, wood may be used as an alternative.
- c. Materials and elevations for waste, recycling, and/or grease disposal receptacle enclosures that are attached to buildings shall use materials and quality of finish consistent with those of the principal building.
- d. The waste, recycling, and/or grease disposal receptacle enclosure gate shall be constructed of metal, stained or painted wood, or composite wood and shall incorporate colors that are visually consistent with those of the screening walls.
- e. Waste, recycling, and/or grease disposal receptacle enclosure gates shall be provided with wheels, drop pins or rods, or other support mechanisms such as industrial strength hinges, for securing when open and closed.
- f. Waste, recycling, and/or grease disposal receptacle enclosures shall be designed to protect the walls from damage by containers. Such protection may be provided on the interior of the enclosure by the use of barrier curbing, reinforced masonry walls,

bollards, bumpers, or other similar means.

5. Operations and Maintenance.

- a. Waste, recycling, and/or grease disposal receptacle enclosure openings shall be kept closed at all times except for when the receptacle is being accessed.
- b. The property owner shall be responsible for ensuring that:
 - i. Waste, recycling, and/or grease disposal receptacles are placed in the enclosure at all times other than when they are being accessed, and
 - ii. Service truck access to the enclosure is maintained year-round.
- c. Waste shall be stored in closed containers and regularly emptied.
- d. Waste, recycling, and/or grease disposal receptacle enclosures shall be maintained in a clean condition to avoid vermin and foul odors from impacting surrounding areas.

D. Ground- and/or Wall-Mounted Mechanical Equipment.

1. General Requirement.

- a. Ground-mounted building/mechanical equipment is prohibited within the front yard regardless of whether screening is provided.
- b. Placement of wall-mounted building/mechanical equipment is prohibited on the front yard facing façade of a building.
- c. Screening shall be provided for all ground- or wall-mounted building/mechanical equipment, including but not limited to gas meters, electrical meters, generators, air-conditioning condensers, heat pumps, ventilation units, transformers, backflow preventers, and/or above ground water meters, that is visible from any public right-of-way, internal access drive (Section #####), or adjacent property.
- d. Equipment that is located in an interior side or rear yard and is otherwise screened by landscaping, a fence or wall, a building, or distance so that it is not visible from the street right-of-way or adjacent property shall not require additional screening.
- e. Ground-mounted solar panels are exempt from the requirements of this Section.

2. Design.

- a. **Interior Side and/or Rear Yard.** If ground- and/or wall-mounted mechanical equipment is visible from any on-site pedestrian walkway, public right-of-way, or adjacent property it shall be screened with either:
 - i. A fence or wall meeting the material standards of Section ##### with a minimum opacity of 80 percent, or
 - ii. A Type # Buffer per Section #####.

E. Roof-Mounted Mechanical Units.

1. **New Development and Major Redevelopment.** A continuous, permanent material that is architecturally integrated with the building on a minimum of three building façades shall be utilized to screen roof-mounted building equipment from adjacent properties and public street rights-of-way.
2. Intermediate and Minor Redevelopment, Change of Use, and Installation of New Equipment on an Existing Building.
 - a. A central corral shall be utilized to screen roof-mounted building equipment.
 - b. The central corral shall be of a material or color that minimizes visibility and contrast with other roof materials.

F. Loading Docks and/or Truck Parking Areas.

1. Design.

- a. **Front and/or Street Side Yard.** Loading docks and/or truck parking areas located in a front and/or street side yard shall be screened with a **Type # Buffer** per **Section #####**.
- b. **Interior Side and/or Rear Yard.** Loading docks and/or truck parking areas located in an interior side or rear yard adjacent any residentially developed parcel or residentially zoned parcel or visible from the public right-of-way shall be screened with a **Type # Buffer** per **Section #####**.

22.04.04. Vision Triangle

- A. **Purpose.** The purpose of the fence and wall standards is to regulate the location, design, and maintenance of fences and walls to allow their use for safety, security, privacy, and screening while preserving Waukesha's natural topography, maintaining visual harmony, and enhancing community appearance.
- B. **Applicability.** The fence and wall standards established in this section shall apply to all property within the City as detailed in **Table #####**.
- C. **Requirement.** No building, structure, landscaping, or other obstruction that interferes with traffic visibility shall be located within a vision triangle.
- D. **Determination.** If there is a question as to whether a building, structure, landscaping, or other obstruction interferes with traffic visibility, the City Engineer or their designee shall make the final determination.
- E. **Exceptions.** Within the MU and DC districts, structures may be located closer to or within a vision triangle where adequate safety precautions are provided. Such measures shall be subject to approval by the City Engineer or their designee.
- F. **Location.** A vision triangle shall be located at the intersection of any driveway and right-of-

way/internal access drive, and at the intersection of two or more rights-of-way/internal access drives.

- G. **Minimum Size.** A vision triangle shall be measured perpendicular to and starting at the back of curb of each intersecting right-of-way/internal access drive or driveway for the minimum depth established in **Table #####**.

Table ##### Minimum Vision Triangle Depth	
<i>Intersecting Element</i>	<i>Minimum Required Depth</i>
<i>Driveway</i>	10 feet
<i>Alley</i>	20 feet
<i>Local Streets and Collector Rights-of-Way</i>	20 feet
<i>Arterial Street Right-of-Way</i>	40 feet
<i>State and Federal Highway Rights-of-Way</i>	Per State or Federal standard
<i>Interior Access Drive</i>	10 feet

22.04.05. Outdoor Lighting

- A. **Purpose.** The standards of this Section are designed to regulate the physical effects of lighting and minimize the negative impact that lighting may have on surrounding properties. It is the intent of this section to:
 1. Minimize light pollution, such as glare and light trespass,
 2. Conserve energy and resources
 3. Maintain night-time safety and utility, an
 4. Improve the night-time visual environment.
- B. **Applicability.** The outdoor lighting standards established in this Section shall apply as detailed in **Table #####**.
- C. **Prohibitions.** The following lighting types shall be prohibited within the City:
 1. The use of laser source light or any similar high intensity light for outdoor advertising or entertainment,
 2. The operation of searchlights for advertising purposes,
 3. Site lighting that may be confused with warning, emergency, or traffic signals
 4. Lights that flash, move, revolve, rotate, scintillate, blink, flicker, vary in intensity or color, or use intermittent electrical pulsation, and
 5. Colored light-emitting diode (LED) rope lighting that outlines windows, doors, or other architectural features.

D. **Exemptions.** The following exemptions shall be granted from the requirements of this Chapter:

1. Streetlights and other fixtures installed or temporarily used for public roadway illumination meeting all City standards,
2. All temporary emergency lighting needed by the Police or Fire Departments or other emergency services, as well as all vehicular luminaires,
3. All hazard warning luminaires required by Federal regulatory agencies, except that all luminaires used must be red and must be shown to be as close as possible to the federally required minimum lumen output or color temperature for the specific task,
4. Individual residential lighting that is not part of a site plan or subdivision plan for street or other common or public area outdoor lighting,
5. Lighting associated with holiday, festival, or other temporary uses permitted in **Chapter ###**,
6. Lighting of fountains or public art that has been permitted or otherwise approved by the City,
7. Other Municipal or State lighting installed for the benefit of public health, safety, and welfare, and
8. Flag illumination is permitted if the flagpole complies with the maximum building height of the district.

E. **LED Fixtures.** All outdoor lighting utilizing an LED fixture shall meet the following standards:

1. **Color Rendering.** Outdoor LED fixtures shall be rated at a minimum Color Rendering Index (CRI) value of 70 or higher.
2. **Color Temperature.**
 - a. Outdoor LED fixtures shall have a correlated color temperature of 4,000 degrees Kelvin.
 - b. Decorative and pedestrian scale lighting may be less than 4,000 degrees Kelvin.
 - c. Architectural accent or building façade lighting may exceed 2,700 degrees Kelvin, provided the lighting is fully shielded and directed only onto the building surface or design feature being illuminated.
 - d. Outdoor recreational lighting is exempt from color temperature requirements.

F. Maximum Footcandles.

1. Lighting levels shall perpetually adhere to the standards in **Table ####**.
2. Lighting adjacent to public rights-of-way and lighting within shopping center parking lots are exempt from these standards.

Table ####: Lighting Standards in Footcandles (Fc)	
<i>Location</i>	<i>Maximum Footcandles</i>
Property Line	0.5 [1]
Parking Lot	6
Under Gas Canopy	15
<i>Notes</i>	
[1] When the property line is adjacent to any residentially developed parcel or residentially zoned parcel, the maximum shall be 0 Fc.	

G. Fixture Classification.

1. All outdoor lighting fixtures shall be LED luminaires.
2. All outdoor lighting fixtures shall either have a fixture cutoff classification of "Full Cutoff" or be fully shielded, unless otherwise expressly permitted in this Code.
3. Fully shielded fixtures shall be directional fixtures (such as flood lights) and may be used provided they are aimed away from any residentially developed parcel or residentially zoned parcel.

H. Pole and Fixture Design. The concrete base used to mount a pole light shall not exceed four feet in height, and the total pole height, including the base, shall not exceed 24 feet.

I. Mounting Height.

1. All outdoor lighting fixtures shall have a full cutoff classification with a fixture angle of 90 degrees.
2. The maximum mounting height for all outdoor lighting fixtures shall not exceed 20 feet.

22.04.06. Development Performance Standards

- A. **Purpose.** The purpose of this section is to ensure that all uses of land, buildings, and structures are conducted in a manner that protects the public health, safety, comfort, and general welfare. It is intended to prevent the creation of dangerous, injurious, noxious, or otherwise objectionable conditions that may adversely affect surrounding areas or adjoining premises.
- B. **Applicability.** The standards of this Section apply to all land uses and developments within all zoning districts. No land or building in any district shall be used or occupied in any manner so as to create any of the following conditions:

1. Fire, explosive, or other hazard,
 2. Noise or vibration,
 3. Smoke, dust, odor, or other form of air pollution,
 4. Heat, cold, dampness, electrical, or other disturbance,
 5. Glare,
 6. Liquid or solid refuse or wastes, or
 7. Any other substance, condition, or element that adversely affects the surrounding area or adjoining premises.
- C. **Compliance Requirement.** Any use permitted or not expressly prohibited by these regulations may be undertaken and maintained, provided that the use conforms to the regulations of this chapter.
- D. **Site Impact Standards.**
1. **Air Pollution.** No person or activity shall emit any fly ash, dust, fumes, vapors, mists, or in such quantities so as to substantially contribute to exceeding state or federal air pollution standards.
 2. **Fire and Explosive Hazards.**
 - a. All activities involving the manufacturing and storage of flammable or explosive materials shall be provided with adequate safety devices against the hazard of fire and explosion and with adequate fire-fighting and fire-suppression equipment and devices that are standard in the industry.
 - b. All materials that range from active to intense burning shall be manufactured, utilized, processed, or stored only within completely enclosed buildings having incombustible exterior walls and an automatic fire extinguishing system.
 3. **Glare and Heat.**
 - a. No activity shall emit glare or heat that is visible or measurable outside its premises, except activities which may emit direct or sky-reflected glare which shall not be visible outside their district.
 - b. All operations producing intense glare or heat shall be conducted within a completely enclosed building.
 - c. Exposed sources of light shall be shielded in accordance with the requirements of ##### (the outdoor lighting section) above.
- E. **Operational Impact Standards.**
1. No activity in any district shall produce an unreasonably loud noise level in any adjacent

residential district.

- a. **Manufacturing Districts.** No activity in any manufacturing district shall produce a sound level outside the district boundary or at any point within an adjacent residential district that exceeds the following sound levels measured by a sound level meter and associated octave level filter:

Octave Band Frequency (Cycles per Second)	Sound Level (Decibels)
0 to 75	79
75 to 150	74
150 to 300	66
300 to 600	59
600 to 1200	53
1200 to 2400	47
2400 to 4800	41
Above 4800	39

- b. **Other Districts.** No noise in any district other than a manufacturing district shall produce a sound level measured at the lot line of the premises producing the activity that exceeds the following:

Octave Band Frequency (Cycles per Second)	Sound Level (Decibels)
0 to 75	79
75 to 150	67
150 to 300	59
300 to 600	52
600 to 1200	46
1200 to 2400	40
2400 to 4800	34
Above 4800	32

- c. **Mitigation.** All noise shall be muffled or otherwise controlled so as not to become objectionable due to intermittence, duration, beat frequency, impulse character, periodic character, or shrillness.
2. **Radioactivity and Electrical Disturbances.** No activity shall emit radioactivity or electrical disturbances outside its premises that are dangerous or adversely affect the use of neighboring premises.
 3. **Vibration.** No vibration shall be permitted, which is discernible without instruments outside its premises which is generating the vibrations.