

#### **DEVELOPMENT CODE UPDATE**

Module 2 Development Standards Joint Council Planning and Zoning Commission Workshop October 2022





## Agenda

- Module 2 Contents
- Overview of Notable changes to content from existing code
- Overview of changes to outdoor lighting based on rewrite from experts from Clanton & Associates, Inc

#### Goal of today's session is to determine:

- Sections that don't warrant changes
- Allow tabling discussions on content that may warrant changes or elimination for later through a Parking Lot



### **Module 2 Table of Contents**

### Development Standards

Universal standards that apply across all districts are contained within Part 16-4 Development Standards

#### PART 16-4. DEVELOPMENT STANDARDS

Section 16-4-1 Dimensional Standards

**Section 16-4-2 Access and Connectivity** 

Section 16-4-3 Off-Street Parking, Loading, and Queuing

Section 16-4-4 Landscaping, Screening, and Buffering

**Section 16-4-5 Neighborhood Protection Standards** 

**Section 16-4-6 Outdoor Lighting** 

**Section 16-4-7 Walls, Fences and Gates** 

**Section 16-4-8 Signage** 

**Section 16-4-9 Building Design** 



#### **No Substantial Change**

- Projections into required setbacks
- Corner lot and double frontage lot yards

#### **Notable Changes**

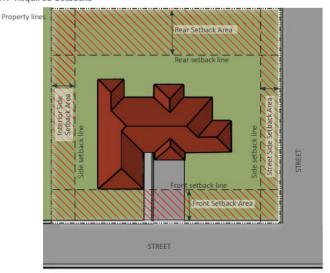
- Revised language to differentiate between yards and setbacks
- Regulations for permissive projections into required setback areas



#### Section 16-4-1 Dimensional Standards .....

- 4-1(A) Required Setback Areas .....
- 4-1(B) Permitted Projections into Required Setback Areas....
- 4-1(C) Yard Requirements .....

#### FIGURE 21: Required Setbacks



Sec. 16-272 - Yards



### **Access and Connectivity**

#### **No Substantial Change**

- Sight triangle requirements (Sec. 38-201, Sec. 16-271)
- Driveway separation and width standards (Sec. 16-367)

#### **Notable Changes**

 New requirements for on-site walkways, cross-access between adjacent uses, and pedestrian and bicycle circulation

Section 16-4-2 Access and Connectivity

4-2(A) Purpose

4-2(B) Applicability

4-2(C) Access and Connectivity Standards

4-2(C)(II) Residential Development Access ......

4-2(C)(III) Multi-Family, Mixed-Use and Non-Residential Development Access.

4-2(C)(IV) Sight Visibility Triangles .....

4-2(C)(V) Cross-Access Between Adjacent Uses.....

4-2(C)(VI) Pedestrian and Bicycle Circulation.....

FIGURE 29: Required On-site Pedestrian Walkways



Sec. 16-367 - Design requirements





#### **No Substantial Changes**

- Fence permit requirements (Sec. 16-271g)
- Sight obstruction (Sec. 16-271c)
- Barbed wire regulations (Sec. 16-271e)

#### **Notable Changes**

- Added clear purpose / applicability section
- Clarified fence height measurements

S	ection 16-4-7 Walls, Fences and Gates	131
New	4-7(A) Purpose	. 131
	4-7(B) Applicability	. 131
•	4-7(C) Fence and Wall Permits	. 131
	4-7(D) Fence and Wall Standards	.131
	4-7(D)(I) Location and Height	.131
New	4-7(D)(II) Fence and Wall Materials	
	4-7(D)(III) Gates	. 134
New	4-7(D)(IV) Retaining Walls	. 134
	4-7(D)(V) Maintenance	. 134

#### 4-7(B) APPLICABILITY

The construction, replacement, and maintenance of all fences, walls, and retaining walls shall comply with the requirements of this section.

Sec. 16-271 - Fences, hedges and gates

### Walls, Fences, and Gates



#### **Notable Changes**

- Revises maximum heights based on location and zone districts
- Clarifies fence height measurements
- Added materials standards
- Added retaining wall engineering requirements

LOCATION OF FENCE/ WALL	MAXIMUM HEIGHT BY ZONE DISTRICT				
	RA, RE	SFR, RM, MHC	MFR, MU, WRTC, DTLA	GC, PO	IND
Within required front or street facing side yards ≤ 10 feet from property line > 10 feet from property line	5′	3' solid 4' view 6'	3' solid 6' view 6'	6' 10'	6′
Within required interior side and rear yards	7′	7'	8'	10′	10′
Within the sight visibility triangle at the intersections of streets, alleys, and driveways	3′,	see Section 4-2	2(C)(IV) Sight V	isibility Triang	<u>les</u>

Sec. 16-271 - Fences, hedges and gates

## **Building Design Updates**

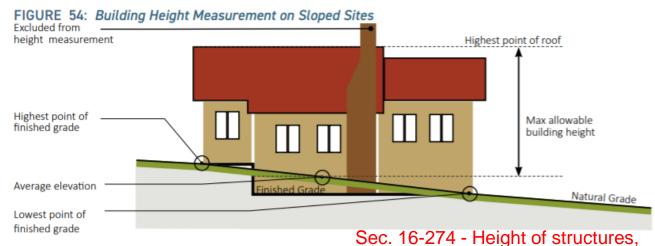


#### **No Substantial Changes**

Foundation Regulations
 Notable Changes

Clarifies building height measurements

Section 1	16-4-9 Building Design	42
	Building Height	
4-9(B)	Building Foundations	143



Sec. 16-285 - Aesthetic considerations; exposed foundations



# Discussion on dimensional standards, access and connectivity, walls, fences, gates, and building design

## Off-Street Parking and Loading

### Chapter 16 Development Code Update

#### **No Substantial Change**

- Dimensional standards (Sec. 16-367)
- Accessible parking standards based on ADA requirements (Sec. 16-369)
- Same motorcycle parking standards
- Similar parking design standards

#### **Notable Changes**

 Added clear purpose / applicability section

	Section 16-4-3 Off-Street Parking, Loading, and Queuing
	4-3(A) Purpose
	4-3(B) Applicability99
	4-3(C) Off-Street Parking Standards
	4-3(C)(I) Calculation of Off-Street Parking and Loading
	4-3(C)(II) Unlisted Uses
	4-3(C)(III) Minimum Off-Street Parking Requirements
	4-3(D) Accessible Parking
	4-3(E) Parking Alternatives and Reductions 106
New	4-3(E)(I) Shared Parking Reduction
	4-3(E)(II) Additional Parking Reductions
	4-3(F) Motorcycle Parking 108
New	4-3(G) Bicycle Parking
	4-3(H) Parking Location & Design
	4-3(H)(I) Use of Parking and Loading Areas110
	4-3(H)(II) Location of Parking Areas
	4-3(H)(III) Dimensions 110
٧ew	4-3(H)(IV) Pedestrian Walkways112
	4-3(H)(V) Surfacing
	4-3(H)(VI) Wheelstops, Striping and Signage
	4-3(H)(VII) Lighting
<b>Vew</b>	4-3(H)(VIII) Off-Street Loading Requirements

#### 4-3(B) APPLICABILITY

- Off-street parking and loading spaces shall be provided as an accessory use in all zone districts in accordance with the requirements of this article. The provisions of this section apply to the following:
  - A. Construction of a new primary building;
  - B. Change of use or occupancy of a building(s), including additions, that require more parking;
  - C. Expansion of the gross floor area of an existing building by more than 25 percent. Parking and Loading Requirements shall apply to the expanded gross floor area of the building(s).

LAC Chp16 DC Update October 2022 Work Sessionshall be unlawful to discontinue, reduce, modify or otherwise dispense with parking and loading facilities that comply with the requirements of this section.

## Off-Street Parking and Loading

#### **Notable Changes**

- Updated standards based on national best practice
- Revises number of parking spaces required for uses based on national best practices
- Added required bicycle parking based on number of required automobile parking spaces and bicycle parking design standards



Chapter 16
Development Code Update

#### Adopted Comp Plan Policies

Housing Infrastructure Strategy 3. Study current and anticipated parking demand and develop alternative approaches to meet that demand

LAN	O USE	EXISTING REQUIRED PARKING	REVISED REQUIRED PARKING
	COMMERCIAL		
e)	Fish hatchery		1 space per 1,000 sf
Į.	Community garden		No Requirement
Agriculture	Plant nursery or greenhouse		4 spaces per 1,000 sf
	Adult entertainment		1 space per 4 persons design capacity
Recreation & Entertainment	Golf course or country club	1 space per 4 persons at maximum capacity. Golf Course – In addition to clubhouse requirements, 5 spaces per hole	1 space per 4 persons design capacity, plus 5 spaces per hole
	Indoor entertainment facility	Bowling Alley- 4 spaces per lane Auditoriums, clubs, lodges and theaters- 1 space per 4 seats at maximum seating capacity	1 space per 4 persons design capacity
	Outdoor recreation facility	Tennis Court- 3 spaces per court	1 space per 1,000 sf of site area where persons circulate, participate, or watch activities.
	Park or playground	1 space per 3 acres open space plus spaces for recreation use as required by this chapter	1 space per 3 acres
	Sports field	Ballfields, stadiums, amphitheaters – 1 space per 3 persons at maximum capacity	1 space per 1,000 sf of site area where persons circulate, participate, or watch activities.
50	Bed and breakfast	1 space per bed, plus 2 spaces per owner or manager	1 space per room, plus 2 staff spaces
Lodging	Campground or RV park.		1 space per RV or campsite
Š	Hotel or motel	1 space per unit	1 space per room

Sec. 16-370 - Off-street parking requirements

## **Off-Street Parking and Loading**



#### **Notable Changes**

- Clarifies shared parking reductions (Sec. 16-372)
- Adds parking reductions for onstreet parking, proximity to transit, bicycle amenities, electrical vehicle charging stations, and solar parking canopies
- Adds loading and vehicle stacking standards

#### Comp Plan

Mobility Land Use Strategies 1. Integrate parking with transit

- 2. Revisit parking requirements in relation to transit access
- 4. Consider expanded opportunities for off-site parking

TABLE 30: APPLICA	TABLE 30: APPLICABLE OFF-STREET PARKING REDUCTIONS				
FACTOR	ALLOWED REDUCTION				
On-street parking	1 on-street parking space on adjacent public streets may be counted for 1 required off-street parking space.				
Proximity to transit	The total number of required parking spaces may be reduced by 20% for developments within 1,320 feet of a public transit stop.				
Provisions for bicycle infrastructure	The total number of required parking spaces may be reduced by 10% for developments that provide robust bicycle amenities (i.e., lockers and repair facilities) and additional designated bicycle parking areas in excess of what is required for the project.				
Electrical charging stations	1 electrical station may be counted toward 2 required parking spaces.				
Solar parking canopies	The total number of required parking spaces may be reduced by 10% for developments that utilize solar parking canopies.				

TABLE 34: REQUIR	TABLE 34: REQUIRED VEHICLE STACKING SPACES					
USE	EXISTING REQUIRED VEHICLE STACKING SPACES	PROPOSED REQUIRED VEHICLE STACKING SPACES	MEASURED FROM END OF STACKING LANE TO:			
Drive-through or Drive-up Food and Beverage	Stacking for 10 cars	10 per window	Service Window			
Vehicle Wash	Stacking of 3 spaces for each washing station	3 per bay	Outside of washing bay			
Vehicle Fuel Sales		1 per pump	End of fuel pump island			
Retail Sales		4 per drive-through station	Service window			
Financial Institutions or Automated Teller Machine (ATM)		3 per drive-through station 2 per ATM	Service window ATM			



## Discussion on off-street parking, loading, and queuing standards

## Landscaping, Screening, and Buffering

New



#### **No Substantial Change**

- Encourages use of native and drought-tolerant plants
   Irrigation requirements
- Irrigation requirements
- Retain alternative for providing 50% site landscape in ROW

#### **Notable Changes**

- Added clear purpose / applicability section
- Updated landscape standards based on national best practice
- Created screening standards

ection 16-4-4 Landscaping, Screening, and Buffering	114
4-4(A) Purpose	114
4-4(B) Applicability	114
4-4(C) Exceptions	114
4-4(D) General Landscape Standards	
4-4(D)(I) Minimum Landscape Site Area	114
4-4(D)(II) Type and Amount of Plant Materials	114
4-4(D)(III) Irrigation Systems	115
4-4(D)(IV) Installation and Maintenance	
4-4(D)(V) Streetscape and Front Setback Area Landscaping	116
4-4(D)(VI) Parking Lot Landscaping and Screening	117
4-4(E) Buffering and Screening Standards	
4-4(E)(I) Required Landscape Buffers and Screens	118
4-4(E)(II) General Screening Standards	121
4-4(E)(III) Outdoor Storage For Vehicles, Equipment, and Materials	121
4-4(E)(IV) Screening of Refuse Containers	121
4-4(E)(V) Screening of Mechanical and Utility Equipment	122

Change since M3 – Moved landscape buffers to neighborhood protection standards for user
ease / clarity

4-4(B) APPLICABILITY

The provisions of this section apply to the following:

- 1. New construction of multi-family, mixed-use, or non-residential structures; and the
- Expansions of existing multi-family, mixed-use, and non-residential structures of 25 percent or more of building floor area.

Sec. 16-574 - Landscaping performance standards

## Landscaping, Screening, and

LOS ALAMOS Chapter 16 Development Code Update

**Buffering** 

#### **Notable Changes**

- Increased site landscaping requirement from 5% to 10% of site
- Added minimum plant material standards
- Added street tree standards if site landscaping is placed in ROW
- Clarified minimum parking lot landscaping standards
- Requires screening standards for outdoor vehicle storage, refuse containers, and mechanical equipment

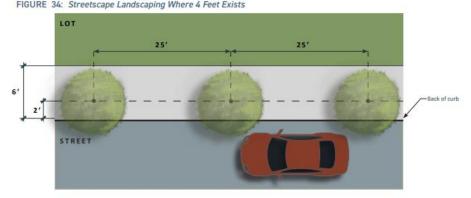
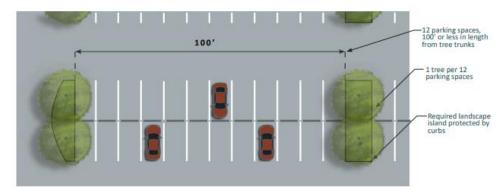


FIGURE 36: Parking Lot Tree Requirements



Sec. 16-574b



## Discussion on landscaping, screening and buffering standards



## **Signage**

## No Substantial Changes

- Sign permit requirements (Sec. 16-403)
- Prohibited signs (Sec. 16-410)
- Exempt signs (Sec. 16-404)

#### **Notable Changes**

 Updated standards to be content-neutral

9	Section 16-4-8 Signage	135
	4-8(A) Purpose	135
	4-8(B) Applicability	135
	4-8(C) Exceptions	135
	4-8(D) Permit Requirements	
	4-8(E) Prohibited Signs	
	4-8(F) Sign Standards	136
Change	4-8(F)(I) Sign Measurements	136
Change	4-8(F)(II) Authorized Signage	138
	4-8(F)(III) Sign Illumination	
	4-8(F)(IV) Electronic Message Centers (EMC)	
	4-8(F)(V) Construction and Maintenance of Permanent Signs	140
	4-8(F)(VI) Temporary Signs	140

#### 4-8(B) APPLICABILITY

- Unless specifically exempted, the standards contained in this section shall apply to all signs within the County.
- Any sign legally erected before the effective date of this ordinance that is no longer in compliance
  with the standards in this section may be retained in use, subject to the provisions of <u>Section 16-5-4</u>
  <u>Nonconformities</u>.

Article X - SIGNS



## Signage

#### **Notable Changes**

- Updated standards to be content-neutral
- Clarified sign measurements
- Provides table of allowable signage by zone district
- Removes temporary sign permit requirement

SIGN TYPE	ТОРІС	POS-PP POS-P, POS-AO, POS-PO	RA, RE, SFR, RM, RM-NC	MFR-L, MFRL-NC, MFR-M, MFR-H	MU, WRTC, DTLA	IND, PO, GC	IND	
Permanent Signs	Sign area	4 sq.ft.	4 sq.ft.	2 sq.ft. per MF unit; 8 sq. ft. max	10 sq.ft. per LF building frontage; 100 sq. ft. max	10 sq.ft. per LF building frontage; 200 sq. ft. max	20 sq.ft. per LF building frontage; 100 sq. ft. max.	
	Sign height	4 ft.	4 ft.	25 ft.				
	Sign illumination	Pro	phibited	Permitted pursuant to Section 4-8(F) Sign Stand			Standards	
Temporary Signs	Sign area	8 sq.ft.	10 sq.ft.	5 sq.ft. per MF unit; 20 sq.ft. max	30 sq.ft. per LF building frontage; 100 sq. ft. max.	30 sq.ft. per LF building frontage; 100 sq. ft. max.	10 sq.ft. per LF building frontage; 100 sq. ft	
Tempo	Sign height	4 ft.	4 ft.	8 ft.				
	Sign illumination		1	Pro	hibited			



## Discussion on signage standards



#### **No Substantial Change**

•	Right-of-W	ay	Lighti	ng
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Prohibited lighting

#### **Major Changes**

- Updated applicability
- Introduced lighting zones
- Updated recommendations based on the latest ANSI / IES / IDA standards
- Reduced maximum CCT
- Added curfew dimming

Section :	16-4-6 Outdoor Lighting	125
4-6(A)	Purpose	.125
4-6(B)	Applicability	.125
4-6(C)	Prohibitions	.125
4-6(D)	Exemptions	.125
4-6(E)	Lighting Plan	.126
4-6(F)	Lighting Zone Designations	.126
4-6(F)	Responsible Lighting Design Standards	.128
4-6(G)	Residential Lighting Standards	.128
4-6(G)	Non-Residential Lighting Standards	.128
4-6(H)	Right-of-Way Lighting	.128
	Special Use Lighting	
	Permit Only Lighting	



#### **Applicability**

- 1. All new development shall meet the requirements of this section, applicable electrical and energy codes, and applicable sections of building code.
- 2. Whenever there is a new use for a property (e.g. zoning or variance change), all outdoor lighting on the property will meet the requirements of this section before the new use commences.
- 3. Expansion, renovation, and modification to existing property that increases the developed square footage, occupant capacity, or parking spaces by twenty-five percent (25%) or more, shall cause the entire property to meet the requirements of this ordinance.
- 4. In the event an outdoor light fixture is not working or damaged to the extent repair costs equal at least fifty percent (50%) of replacement cost, the repair/replacement shall conform with the requirements of this section.
- 5. Unless otherwise noted or exempt, existing outdoor lighting that does not meet the provisions of this section shall be considered legal nonconforming until natural maintenance, modifications, change of use, or complaint enforcement obligate meeting the requirements of this ordinance.



#### **Lighting Zones**

Based on ANSI / IES / IDA guidance:

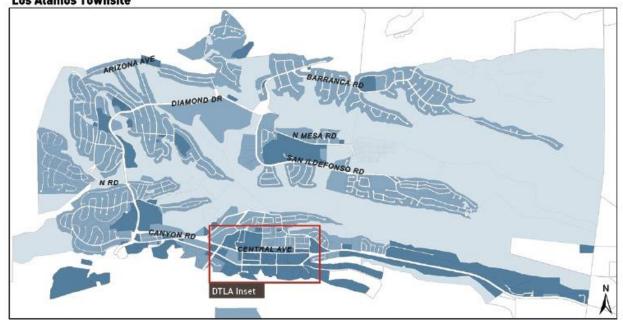
- Provides environmental protection where needed
- Reduces over-lighting and neighborly conflict
- Fosters human vision and transitions of travel

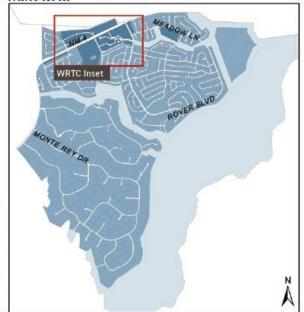
#### Comp Plan

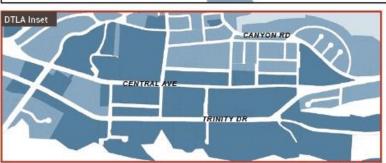
Neighborhood Land Use Strategy 10. Reassess effectiveness of outdoor lighting regulations to better protect neighboring residential properties

TABLE 1: Light Zone Designations		
Designated Light Zones	Light Zone Characteristics / Definitions	Applicable Districts
Lighting Zone 0 (LZ0):	No Ambient Light (wilderness, protected parks, preserves)	POS-PO; POS-AO;
Lighting Zone 1 (LZ1):	Low Ambient Light (rural, residential, developed park areas)	RA; RE; SFR (all types); MFR (all types); RM (all types); MHC; POS-PP
Lighting Zone 2 (LZ2):	Ambient Light (office, commercial, mixed use, schools, light industrial)	MU; DTLA; WRTC; PO; GC; IND; INS; POS-RO
Lighting Zone 3 (LZ3):	Moderately High Ambient Light (central business, play fields, heavy industrial)	Only available for Temporary or Permit Categories;
Lighting Zone 4 (LZ4):	LZ4 - High Ambient Light (Times Square and Las Vegas)	Not applicable in Los Alamos County

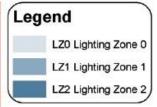
#### Los Alamos Townsite White Rock









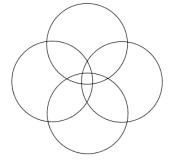




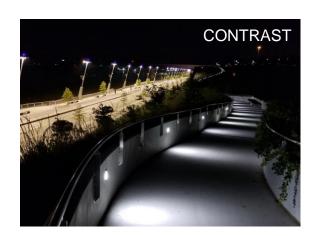




Illuminance



Luminance



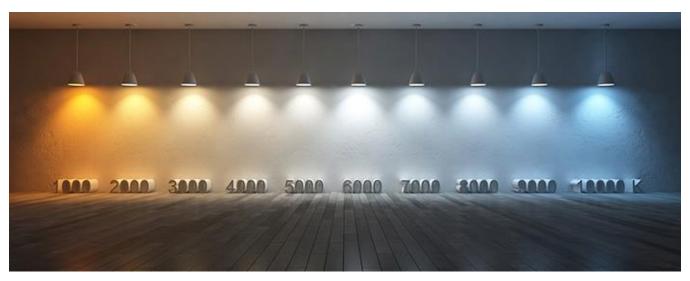


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The Spectral Power Distribution (SPD) of a light source will ultimately determine its **Correlated Color Temperature (CCT)** and Color Rendering Index (CRI).

The maximum CCT permissive within Los Alamos County shall be 2700K.





The Spectral Power Distribution (SPD) of a light source will ultimately determine its Correlated Color Temperature (CCT) and **Color Rendering Index (CRI)**.

- The maximum CCT permissive within Los Alamos County shall be 2700K.
- The Color Rendering Index (CRI) of light sources in LZ-1 and greater must be greater than 65.
  Lower CCT (e.g. 2200K) is allowed in all zones provided it meets the CRI requirement, and
  per ANSI/IES, it is encouraged in LZ-0 applications regardless of CRI.





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#### Denver 2016

- ~3.4fc avg illuminance
- CCT = 1875°K
- CRI = 28



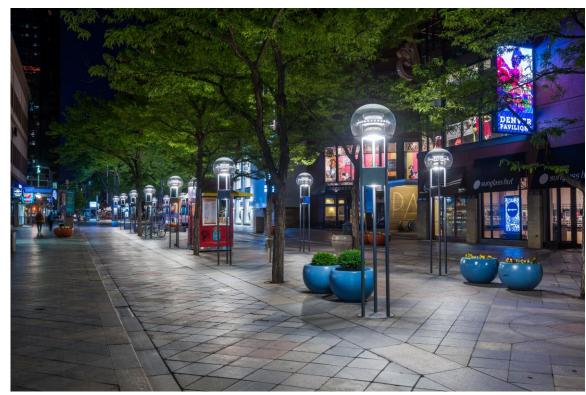


#### Denver 2017

- ~1.1fc avg illuminance
- CCT = 3100°K
- CRI = 83

#### **Summary**

- 3 x less light
- 3 x higher CRI
- 56% greater uniformity
- Increased feelings of reassurance and visual performance





#### **Curfew**

Lz2 lighting shall be dimmed by 50% by 10:00 p.m. or one (1) hour after business close (whichever comes latest). This Lz2 curfew shall remain in effect until 6:00 a.m. The Lz2 curfew does not apply to the following:

- 1. Street, Roadway, and other Department of Transportation lighting.
- 2. Code required lighting for public steps, stairs, walkways, and building entrances.
- Other special use or permitted exceptions listed within this ordinance such as flag, seasonal, sports fields, and businesses which operate during these hours.



#### Other Standards

- Illuminance limits and shielding are recommended for residential and nonresidential use to regulate light trespass at property lines
- Special use lighting for security, historic sites, holiday lights, sports facilities, and gas station canopies
- Right-of-way lighting



## Discussion regarding outdoor lighting standards