

## **ORDINANCE NO. 2185**

### **AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SUGAR LAND, TEXAS, AMENDING CHAPTER TWO, ARTICLE XI, PARKING GARAGES, OF THE SUGAR LAND DEVELOPMENT CODE BY ADDING SECTIONS 2-336 AND 2-337.**

WHEREAS, the Planning and Zoning Commission held a public hearing on these revisions on November 12, 2019, for which notice was given as required by law; and

WHEREAS, after the public hearing, the Planning and Zoning Commission reviewed and unanimously recommended approval to City Council for the adoption of these revisions; and

WHEREAS, the City Council held a public hearing on these revisions, for which notice was given as required by law; NOW THEREFORE:

#### **BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SUGAR LAND, TEXAS:**

**Section 1.** That Chapter Two, Article XI, Parking Garages, of the Sugar Land Development Code is amended by adding new Section 2-336 to read as follows:

##### **Sec. 2-336. - Interior Parking Garage Lighting Shielding.**

Due to the typical partially-open nature of a parking garage structure, in order to reduce unwanted light glare from interior lights that could project outside the structure (see Diagram 1), interior light placement within the parking garage structure shall be shielded to reduce glare in one or a combination of the following ways:

- A. Garage structural shielding- If flush-mounted or pendant lighting fixtures are utilized, which extend the light lens down from the ceiling, the lowest portion of the lens shall not be mounted lower than adjacent structural beams of the parking garage ceiling. The purpose of the placement being not lower than the beams is to reduce lighting glare that would otherwise project out from each side of the light lens. (see Diagram 2)
- B. Full cut-off style shielding- If pendant lighting fixtures are utilized, which extend the light lens down from the ceiling, and the lowest portion of the lens is mounted lower than adjacent structural beams of the parking garage ceiling, shielding shall be required on all sides of the light lens to make the lighting full cut-off. The purpose of the shielding is to reduce lighting glare that would otherwise project out from each side of the light lens (Diagram 3)

Diagram 1- LIGHTING GLARE EXAMPLE- Parking Garage Interior Lighting (No shielding)

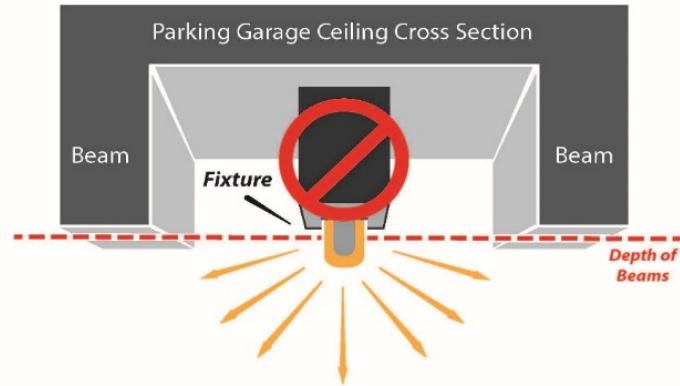


Diagram 2- GARAGE STRUCTURAL SHIELDING- Parking Garage Interior Lighting – (With light recessed above garage ceiling beam depth for reduced glare)

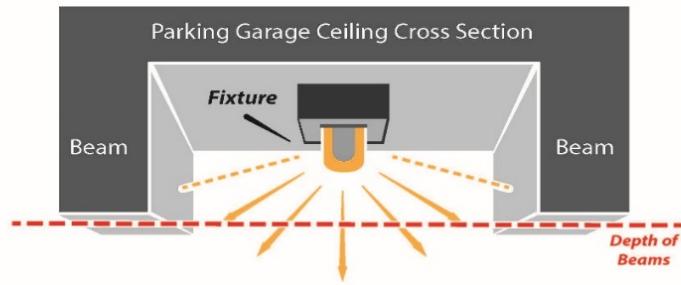
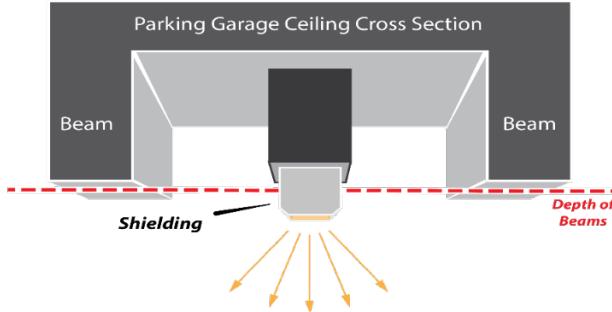


Diagram 3- FULL CUT-OFF STYLE SHIELDING- Parking Garage Interior Lighting (full cut-off fixture, with light shielded on all sides of fixture for reduced glare if extending below garage ceiling beams, or if parking garage does not have the exposed beam depth to adequately shield light fixture.)



- C. For wall-mounted lighting within the interior of a parking garage structure, the wall-mounted lighting is required to consist of a full cut-off fixture, in which the light lens does not project lower than the shielding, to reduce glare.
- D. The requirements of Section 2-336 A, B, and C are not applicable for interior garage lighting located within a completely enclosed parking garage level.

**Section 2.** That Chapter Two, Article XI, Parking Garages, of the Sugar Land Development Code is amended by adding new Section 2-337 to read as follows:

**Sec. 2-237. - Minimum Interior Parking Garage Lighting Illumination.**

Due to the importance of safety and visibility within a parking garage, there is a need for a minimum illumination level within each interior parking garage level. A minimum of not less than 1.0 average maintained footcandles for horizontal and vertical illumination is required. A footcandle means a unit of measure for illuminance, and is equal to 1 lumen per square foot, and is further defined in Article XII, Lighting Standards, Chapter 2, of the Development Code.

**Section 3.** That the provisions of this ordinance are severable and the invalidity of any part of this ordinance does not affect the validity of the remainder of the ordinance.

APPROVED on first consideration on \_\_\_\_\_, 2019.

ADOPTED on second consideration on \_\_\_\_\_, 2020.

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Joe R. Zimmerman, Mayor

ATTEST:

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Thomas Harris, III, City Secretary

APPROVED AS TO FORM:

