

**Approved CBC Detectable Warnings must meet the following Criteria:**

1) **A written 5-year Product Warranty for Shape, Color Fastness, Sound-on-Cane Acoustic Quality, Resilience, and Attachment:**

- A) **Shape:**  
Must be able to retain its original shape when subjected to varying degrees of temperature, moisture, pressure, or other stress.
- B) **Color Fastness:**  
The ability of the material or coating to retain its original hue without fading or changing when exposed to environmental conditions.
- C) **Sound-on-Cane Acoustic Quality:**  
The ability of a material to retain its original sound characteristics when impacted by an object.
- D) **Resilience:**  
The ability of the material to absorb energy when deformed elastically without creating a permanent deformation.
- E) **Attachment:**  
Attachment will not degrade significantly for at **least five (5) years after initial installation**-meaning the product maintains at least 90% of original product and bond. Bolt down products shall not be used.

2) **Confirmation - A written dimensional specifications:**

A written dimensional specification of the truncated domes and raised bars as specified in the codes - see below dimensions:

- A) **Base Diameter:** 0.9" to 0.92"
- B) **Top Diameter:** 0.45" to 0.47"
- C) **Center-to-Center Spacing:** 2.3" to 2.4"
- D) **Height:** 0.18" to 0.22"

3) **Light on Dark or Dark on Light**

70% contrast with adjoining surfaces - Contrast = [(B1-B2)/B1] x 100 percent, where B1=light reflectance value (LRV) of the lighter area, B2=light reflectance value (LRV) of the darker area

4) **Methods of installations:**

Cast-in-place (required for all new construction) or Surface mount (retrofit only)

5) **Size:**

3' depth by full width

6) **Color:**

Color shall be Dark Gray #36118 of FED-STD-595 unless specified otherwise

7) **Approval:**

Armor-Tile or equal as approved by City



DATE: 09/22/2017		NOT TO SCALE		CITY OF ELK GROVE - PUBLIC WORKS		APPROVED BY: <i>Paul M. Mudd</i> CITY ENGINEER	
				<b>DETECTABLE WARNING SPECIFICATIONS</b>		1/16/2020 DATE	
REVISION	BY	APPROVED	DATE			DRAWING NUMBER	
1	LM	TW	07-18-2019	<b>AR - 3.1</b>			