This document identifies and illustrates design criteria for decorative barricades for street closures permitted under the Temporary Outdoor Expansion program. Barricades must meet all roadway safety and emergency services requirements but additional flexibility will be permitted to allow for barricades of a greater visual quality than the traditional construction elements that were previously required (such as Type 3 barricades).

**Barricade Terminology**

The graphic below identifies different “zones” for barricades within the curb-to-curb width at the entry to a street closure and the barricade types that are allowed within each zone. These terms are defined as follows:

**Barrier Zone.** Portion of the curb-to-curb width that must include barricades but is not required to allow for emergency access. Stationary or Movable barricades are allowed in this zone.

**Barrier/Emergency Access Zone.** Portion of the curb-to-curb width that must include barricades and must allow for emergency access. Only Movable barricades are allowed in this zone.

**Stationary Barricades.** Barricades that are intended to remain in place, but are not intended to be easily or quickly moved.

**Movable Barricades.** Barricades that are intended to remain in place, but can be easily moved by one Denver Fire Department staffperson.
Barricade Design Standards and Guidelines
Decorative barricades shall be consistent with the design standards and guidelines in this section.

Barricade Height (minimum)
Barricades shall be a minimum of 3 feet in height.

Visibility
Orange and white retroreflective tape shall be adhered to each barrier. Retroreflective tape shall be clearly visible to oncoming traffic and remain unobscured. The width of the retroreflective markings on barricades need to be 8 - 12".

Performance
• Barrier elements shall be designed, scaled and horizontally spaced to visually signal that the road is closed to vehicular traffic during the day and evening.
• At least 1 Manual on Uniform Traffic Control Devices (MUTCD) “Road Closed” sign shall be provided at each interface of the street closure with vehicular travel lanes.
• The Road Closed sign shall be placed approximately at at the center-point of the curb-to-curb width.
• At least 1 MUTCD “Road Closed Ahead” traffic control sign shall be located on the block before the closure if that block includes vehicle travel lanes that lead directly to the street closure.
• At least 2 MUTCD “End-of-Roadway Markers” shall be located at each end of the street closure. They can be affixed to the ground or barricades, but need to be a minimum of 4ft height.

Emergency Access/Barrier Zone
• A minimum 16 foot-wide fire access width shall be provided at the street closure entry when adjacent buildings are three stories or less.
• A minimum 20 foot-wide fire access width shall be provided at the street closure entry when adjacent buildings are greater than three stories.
• Movable Barricades occupying the Emergency Access/Barrier Zone shall be easily and quickly movable by one Denver Fire Department staffperson during an emergency. Denver Fire Department will review Movable Barricades on a case-by-case basis to determine compliance with this guideline.
Alternative Barricade Illustrations

The graphics on the following pages illustrate a series of decorative barricade alternatives that would meet the design standards and guidelines identified on the pages above. These graphics are included for illustrative purposes only to demonstrate the range of barricade elements that may be considered. Decorative barricades will be reviewed on a case-by-case to determine compliance with the standards and guidelines.

Additionally, applicants may propose other decorative barricades not illustrated or identified below provided they meet the design standards and guidelines in this document. Note that each street closure is unique and may require additional safety and visibility measures than what is outlined above.

Other barricade options include, but are not limited to:
- Wayfinding signage
- Boulders/structures
- Metal barricades
- Lockable bollards
- Car tipping safety devices
- Type 3 barricades

Note: Wheels used for a Movable Barricade shall be lockable and easily unlockable by Denver Fire Department staff.

Decorative Barricades for Full Street Closures: Design Standards and Guidelines
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