



Delineator Guide

08.19.2025

SELECTION CRITERIA

Safety

- Safety for all street users
- Enhances safety and comfort for people of all ages and abilities
- Traffic calming: will it help slow motor vehicles
- Reflectivity: how visible is it at night and at a distance

Planning + Design

- Dimensions: meets project requirements
- Aesthetics: considering local context, project identity and potential damage over project duration
- Availability/Ease of Procurement
- Accessibility: ADA compliance, transit, trash collection, street sweeping, snow removal, emergency vehicle access, etc.
- Cost

Maintenance

- Construction impacts and ease of installation or relocation
- Storm water/drainage impacts
- Stewardship partner(s): eg. Organization to water planters
- Durability over project duration

SELECTION CRITERIA CONT.

Demonstration



1 Day - 1 Month
\$

Pilot



1 Month - 1 Year
\$\$

Interim Design



1 Month - 5 Years
\$\$\$

Permanent



5 Years - 50 Years
\$\$\$\$

Material Durability



Safety



Investment



Evaluation



DELINEATOR TYPES

1

Posts & cylinders (Pg.5)

Slim, flexible vertical delineators that have rebound properties typically be used in short-term projects

2

Solid Barriers (Pg.12)

Robust, typically free standing elements used in all types of projects and provides increased safety and space delineation

3

Planters (Pg.17)

Barriers that both define space, add greenery, and create more inviting, human-centered environments in temporary or short-term interventions

4

Curbing (Pg.23)

Low-profile adaptable delineators that are typically inexpensive and easily deployable – adapting to evolving needs in demonstration or short-term projects

TRAFFIC CONES

DEMO > PILOT > INTERIM > PERMANENT

1

Overview

Standard traffic cones are available in various sizes and colors. They are re-usable and easy to source but only appropriate for short-term demonstration projects or for traffic control during project installation.

Tip: integrate barrier to project identity by decorating with flowers, pinwheels, paint etc.

DELINEATOR TYPE

Posts & cylinders

APPLICATION

Bikeways, median islands, curb extensions/plazas, roundabouts

TYPICAL DIMENSIONS

Varies (18 - 36in)

MATERIALS

Plastic (PVC)

ESTIMATED COST

\$22/unit (varies by size)



SOURCES: [Product website](#) | [Case study project website](#)

FREE-STANDING DELINEATOR

DEMO > PILOT > INTERIM > PERMANENT

Overview

Construction grade delineator posts with heavy and sturdy base are not bolted to roadway thus a flexible option to create short-term post-style barriers for demonstration projects or during project installation.

Tip: Unlike traffic cones, these cannot be "nested" and may need more room for transportation



DELINEATOR TYPE

Posts & cylinders

APPLICATION

Bikeways, median islands, curb extensions/plazas, roundabouts

TYPICAL DIMENSIONS

Varies (36-48in with 10-12lb rubber base)

MATERIALS

Plastic (PVC), rubber base

ESTIMATED COST

\$26-35/unit (varies on number of order & retailer)



SOURCES: [Product website](#) | [Case study project website](#)

FLEXIBLE DELINEATOR POST

DEMO > **PILOT** > INTERIM > PERMANENT

Overview

Standard reflective plastic post that springs back upright after impact. Comes in various colors and adhered to pavement with butyl pad for short-term projects or bolted for longer-term.

Tip: Shorter delineators (27in) may reduce the chances of interfering with bicycle handlebars

DELINEATOR TYPE

Posts & cylinders

APPLICATION

Bikeways, median islands, curb extensions/plazas, roundabouts

TYPICAL DIMENSIONS

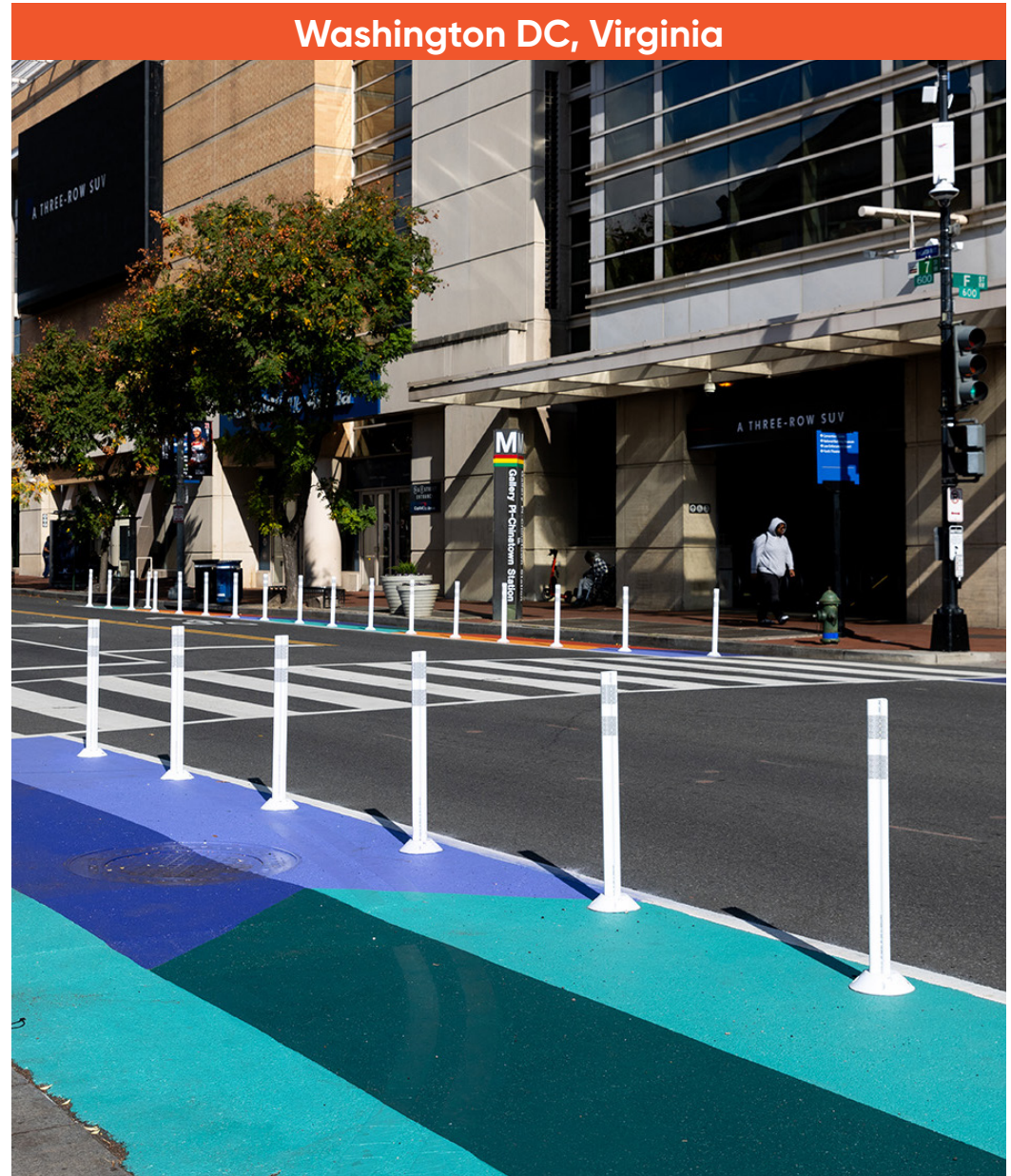
Varies (27-48in height post)

MATERIALS

Plastic post with base

ESTIMATED COST

\$43-50/unit (varies on number of order & retailer)



SOURCES: [Product website](#) | [Case study project website](#)

RAISED LANE SEPARATOR SYSTEM

DEMO > **PILOT** > **INTERIM** > PERMANENT

Overview

In combination with delineator posts, these systems help separate lanes and delineate spaces. They are lightweight and easy to install however may need to be removed to facilitate snow plowing.

Tip: When designing for bikeways, consider using shorter delineator posts (27in) to reduce interference with bicycle handlebars

DELINEATOR TYPE

System for Posts

APPLICATION

Bikeways, roundabouts, parks/trails

TYPICAL DIMENSIONS

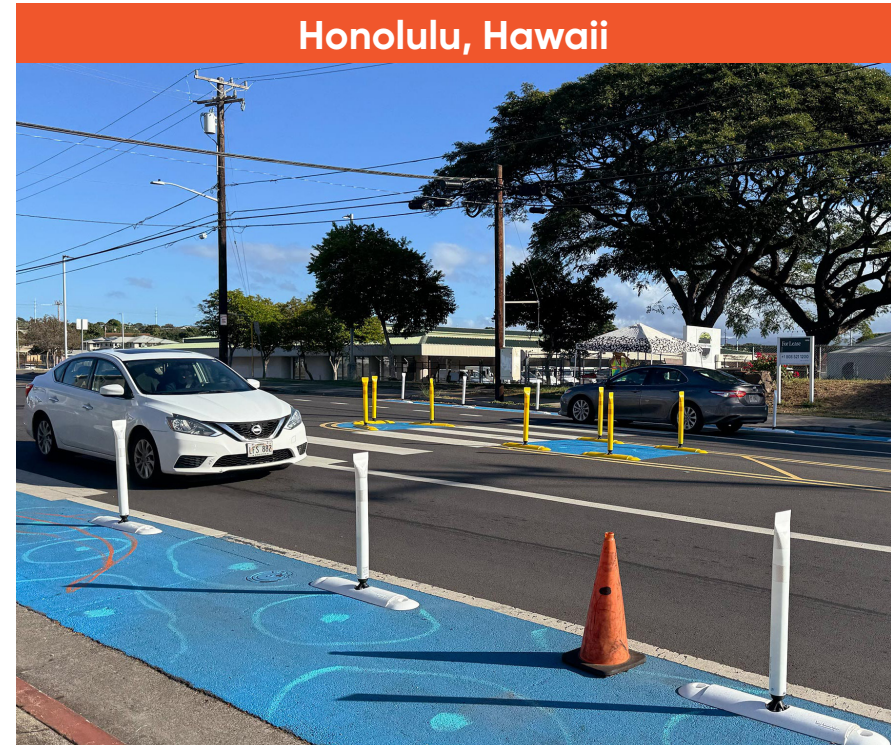
40in long, 10in wide base

MATERIALS

High density thermoplastic system

ESTIMATED COST

144-170/unit (varies by number of order & retailer)



SOURCES: [Product website](#) | [Case study project website](#)

HIGH PERFORMANCE DELINEATOR POST

1

DEMO > **PILOT** > **INTERIM** > PERMANENT

Overview

High performance delineator that remains flexible and rebounds to upright state even after 100 hits at 70mph. Requires minimal maintenance and fast installation without fasteners

Tip: Shorter delineators (27in) may reduce the chances of interfering with bicycle handlebars

DELINEATOR TYPE

Posts & cylinders

APPLICATION

Bikeways, median islands, curb extensions/plazas, roundabouts

TYPICAL DIMENSIONS

27 - 36in. high

MATERIALS

UV-stabilized thermoplastic polyurethane

ESTIMATED COST

\$106/Unit (varies by retailer)



Built Examples



SOURCES: [Product website](#)

K-71/K-72 DELINEATOR POST

DEMO > **PILOT** > **INTERIM** > PERMANENT

Overview

Similar to thinner flexible delineator posts but provide greater visual separation of traffic and are capable of withstanding vehicular impact up to 65mph impact. Requires drilling and adhesive and may need to be removed for snow plowing. Available in a variety of colors and include wide retro-reflective collars visible from a distance at night.



[K-71 Product website](#)

DELINEATOR TYPE

Posts & cylinders

APPLICATION

Bikeways, median islands, curb extensions, plazas, roundabouts

TYPICAL DIMENSIONS

22-29in high, 7.5-10in diameter

MATERIALS

HDPE Plastic

ESTIMATED COST

\$91-120/Unit with hardware



[K-72 Product website](#)



SOURCES: [Case study project website](#)

FIXED STEEL BOLLARD

DEMO > PILOT > **INTERIM** > **PERMANENT**

1

Overview

High performance fixed bollard made of carbon steel with removable mounting options but planned for semi-permanent to permanent projects. These are crash-resistant and provide added safety/separation from vehicular travel. These come in various shapes, colors and can feature reflective strips or lighting.

DELINEATOR TYPE

Posts & cylinders

APPLICATION

Bikeways, median islands, curb extensions/plazas, roundabouts

TYPICAL DIMENSIONS

36in high, 4–8in dia.

MATERIALS

Steel

ESTIMATED COST

\$252–346/Unit (varies by order size and retailer)



SOURCES: [Product website](#) | [Case study project website \(Puebla\)](#)
[Case study project website \(Mexico City\)](#)

CONCRETE BOLLARD

DEMO > **PILOT** > **INTERIM** > **PERMANENT**

2

Overview

Concrete bollards come in a variety of shapes, finishes and sizes such as cylinders, tapering bollards, and spherical bollards. They are designed to resist impact, weather and are a good option for long term implementation.

DELINEATOR TYPE

Solid barrier

APPLICATION

Curb extensions, plazas, roundabouts

TYPICAL DIMENSIONS

Varies (8-30in diameter)

MATERIALS

Varies by bollard type

ESTIMATED COST

Varies by type, size, finish and retailer)



SOURCES: [Product website](#) | [Case study project website](#)

TRAFFIC CONTROL BARRICADES

DEMO > PILOT > INTERIM > PERMANENT

Overview

Typically used as a traffic control barrier and can be used for short-term street closures or to post temporary signs. A-frame barriers are easy to fold, stack and store but may need to be delivered on site ahead of time.

DELINEATOR TYPE

Barricades

APPLICATION

Activated alleys, bikeways, roundabout

TYPICAL DIMENSIONS

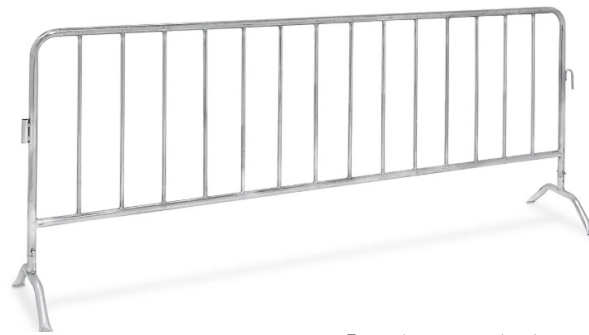
(4-8ft long) varies by barrier type

MATERIALS

Varies by barricade type (HDPE, steel)

ESTIMATED COST

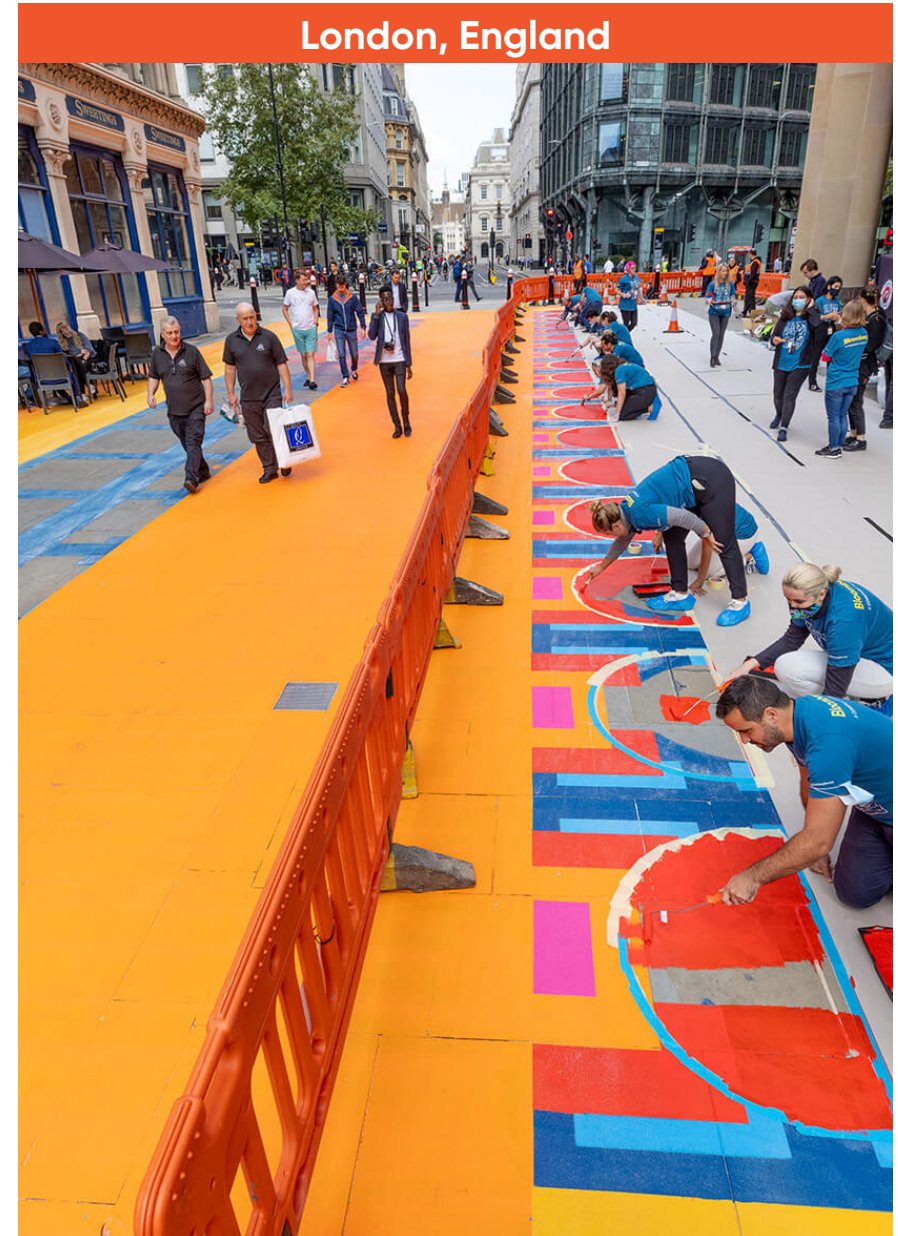
(\$35-145/unit) Varies by type and order size



[Product website](#)



[Product website](#)



SOURCES: [Case study project website](#)

HAY BALE

DEMO > PILOT > INTERIM > PERMANENT

2

Overview

Hay bales can be used as barriers and/or as seats. These are adaptable, low-cost, low-risk and environmentally friendly. However, this material is delicate and will degrade easily (especially if exposed to rain) so it is recommended to limit the use for temporary public spaces or demonstrations.

Tip: Debris cleanup after installation will most likely be needed

DELINEATOR TYPE

Solid barrier

APPLICATION

Bikeways, pedestrian crossings, curb extensions, plazas, activated alleys, roundabouts

TYPICAL DIMENSIONS

36-48in long, 18-20in wide, 14-16in high

MATERIALS

Hay

ESTIMATED COST

\$35/unit



Poughkeepsie, New York



SOURCES: [Product website](#) | [Case study project website](#)

CONCRETE JERSEY BARRIER

DEMO > **PILOT** > **INTERIM** > PERMANENT

Overview

Used to create a wall-style separation along bikeways, plazas or urban corridors. Concrete barriers are highly durable, impact resistant and require minimal maintenance. However, these will need special equipment to relocate so it is important to plan for access for trash collection, emergency vehicles and other curbside services prior to installation. Plastic barriers are a flexible option typically filled with water or sand depending on durability needs. Not as labor intensive as concrete jersey barriers but will need substantial space for transport/storage.



[Product website](#)



[Product website](#)

DELINEATOR TYPE

Solid Barrier

APPLICATION

Bikeways, plazas

TYPICAL DIMENSIONS

Varies in size (8 / 10 / 12 ft.
long x 27 in. wide x 32 in. high)

MATERIALS

Pre-cast concrete, HPDE

ESTIMATED COST

\$290-1300 depending size and
type jersey barrier

SOURCES: [Case study project website](#)

NYCDOT Barrier Beautification Program



GRANITE BLOCKS

DEMO > **PILOT** > INTERIM > PERMANENT

Overview

Large, granite blocks can be used as a free standing barrier element and have the added benefit of doubling as seating, depending on use and placement. Similar to concrete jersey barriers, these require trained staff and special equipment to transport and relocate.

Tip: Use regionally-appropriate, locally sourced blocks whenever possible



DELINEATOR TYPE

Solid Barrier

APPLICATION

Curb extensions, Plazas

TYPICAL DIMENSIONS

36 in. long x 18 in. high, x 1.5 ft. wide. but varies by inventory

MATERIALS

Granite or alternatively concrete

ESTIMATED COST

Varies – typically sourced from existing city inventory (reused).

SOURCES: [Case study project website](#)

Kansas City, Missouri



WOODEN CRATES

DEMO > PILOT > INTERIM > PERMANENT

3

Overview

Lightweight and reusable wooden crates of various sizes can be used as a planter. Mostly appropriate for short-term use

Tip: Wooden crates can be easily painted or branded to share a message, thank sponsors or integrate public art into the project

DELINEATOR TYPE

Planters

APPLICATION

Bikeways, median islands, curb extensions, plazas, activated alleys, roundabouts, chicanes

TYPICAL DIMENSIONS

21in long, 14.5in wide, 9in high

MATERIALS

Hardwood, softwood or engineered wood like plywood

ESTIMATED COST

\$19/unit but varies by type of wood and retailer



SOURCES: [Product website](#) | [Case study project website](#)

TIRE PLANTERS

DEMO > PILOT > INTERIM > PERMANENT

3

Overview

Tires can be stacked and repurposed to create planters or other barrier elements for short-term implementation. Recycled tires are easily sourced, are low cost and can normally be found for donation from auto-repair shops, filling stations, junk yards etc.

DELINEATOR TYPE

Planters

APPLICATION

Median islands, curb extensions, plazas/activated alley, roundabouts

TYPICAL DIMENSIONS

15-17in diameter, 6-8in height

MATERIALS

Natural/synthetic rubber

ESTIMATED COST

Borrowed, donated or reclaimed



Downtown Miami, Florida



SOURCES: [Case study project website](#)

GALVANIZED STEEL PLANTERS

DEMO > PILOT > INTERIM > PERMANENT

Overview

Galvanized steel planters filled with soil and used as planters for short-term projects. Available as modular raised beds or stock tanks with various sizes, colors and finishes.

Tip: For pilot projects, select a deeper planter so that watering is required less frequently.



DELINEATOR TYPE

Planter

APPLICATION

Bikeways, curb extensions, plazas/activated alleys, roundabouts

TYPICAL DIMENSIONS

Varies (48–96in, 24–48in wide, 17–24in high)

MATERIALS

Galvanized steel

ESTIMATED COST

\$60–300 (varies by size/retailer)

SOURCES: [Product website](#) | [Case study project website \(Arkansas\)](#)
[Case study project website \(Minnesota\)](#)



SELF-WATERING PLANTERS

DEMO > **PILOT** > **INTERIM** > PERMANENT

Overview

Self-watering planters features a reservoir at the base, reducing the maintenance burden and water usage Comes in a variety of shapes, sizes, finishes and colors. Some includes forklift slots to be easily moved for snow plowing.



[ZyberTech Product website](#)



[EarthPlanter Product website](#)



[Zicla Product website](#)

DELINEATOR TYPE

Planter

APPLICATION

Bikeways, curb extensions, plazas/activated alleys

TYPICAL DIMENSIONS

Varies by planter type and retailer

MATERIALS

Galvanized steel, linear low-density Polyethylene, recycled plastic

ESTIMATED COST

Varies by type & retailer)

Planters Built Examples



LARGE PLANTERS

DEMO > **PILOT** > **INTERIM** > **PERMANENT**

Overview

Heavy duty rectangular planters that serve as a freestanding barrier and landscaping element. Can be found in various materials such as concrete, aluminum, corten steel and plastic.



DELINEATOR TYPE

Planter

APPLICATION

Bikeways, curb extensions, plazas/activated alleys

TYPICAL DIMENSIONS

Varies by type (4-6ft long, 1.5ft-3ft wide, 1.5-2ft tall)

MATERIALS

Concrete / cement, corten steel

ESTIMATED COST

\$334.99/unit Varies by type & retailer)

SOURCES: [Product website](#) | [Case study project website \(New York\)](#)
[Case study project website \(Belgium\)](#)



POLYMER PLASTIC PLANTERS

DEMO > **PILOT** > **INTERIM** > PERMANENT

Overview

Large and heavy-duty planters used as planters and barrier available in different sizes and colors. Due to their size these may need trucks or large vehicles to transport.

Tip: Verify local jurisdiction requirements (eg. LADOT requires planters to be light in color and at least 700lbs when filed with soil/plants)

DELINEATOR TYPE

Planters

APPLICATION

Bikeways, curb extensions, plazas/activated alleys, roundabouts

TYPICAL DIMENSIONS

Varies (34-42in diameter, 24.5-33in high)

MATERIALS

Polymer plastic/resin

ESTIMATED COST

\$292-785/unit (varies by size & retailer)



SOURCES: [Product website](#) | [Case study project website](#)

STRAW WATTLE

DEMO > PILOT > INTERIM > PERMANENT

4

Overview

Cylindrical tube filled with straw encased in netting. While it is typically used to manage stormwater runoff and sediment in construction sites it can also be re-purposed as a delineator. It is easily shaped into various configurations lending itself to changes in design during short-term demonstration projects. Comes in various lengths and diameters.

DELINEATOR TYPE

Curbing

APPLICATION

Bikeways, median islands, curb extensions, plazas, roundabouts

TYPICAL DIMENSIONS

Varies (8-25ft long spool)

MATERIALS

Biodgradable netting & straw

ESTIMATED COST

\$2.5-4/linear foot (varies by diameter, length and retailer)



Santa Monica, California



SOURCES: [Product website](#) | [Case study project website](#)

Credit: The Healthy City Local - Pop Up Mango/ Relm Studio

LOW PROFILE DELINEATORS

DEMO > **PILOT** > **INTERIM** > PERMANENT

Overview

Low, mountable and durable plastic bump used for flexible lane delineators and traffic separation with minimal to no stormwater obstruction. These delineators absorb impact and may feature reflective strips for improved visibility.

Tip: Allow for 1.5ft of buffer area to place delineator diagonally to allow cyclists to cross between barriers



[Product website](#)



[Product website](#)

DELINEATOR TYPE

Curbing

APPLICATION

Bikeways

TYPICAL DIMENSIONS

30-32in long, 6-9in wide, 3-5 height

MATERIALS

High density recycled rubber or PVC

ESTIMATED COST

Varies depending on delineator type and order quantity

Zicla Delineator Built Example



TreeTop Delineator Built Example



ZICLA ZIPPER SYSTEM

DEMO > **PILOT** > **INTERIM** > PERMANENT

Overview

Anchored low profile modular traffic lane divider that allow flexible and custom configurations depending on the roadway and traffic - offering different levels of protection. These include retro-reflective stripes for day-night visibility. Can also be found in a variety of colors.

DELINEATOR TYPE

Curbing

APPLICATION

Bikeways, median islands, curb extensions, roundabouts

TYPICAL DIMENSIONS

11-12in long, 11in wide, 5in high

MATERIALS

Recycled plastic

ESTIMATED COST

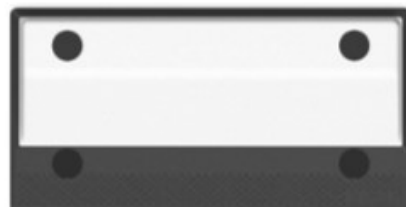
Varies by order size



Module 'A'



Module 'B'



Module 'Double A'

Zipper System Built Examples



SOURCES: [Product website](#)

CONCRETE BUTTONS

DEMO > **PILOT** > **INTERIM** > PERMANENT

Overview

Often used as barrier near light rail tracks, these low, mountable concrete dome buttons can be used to achieve a curb-like barrier effect for curb extensions and plazas with little to no disruption to storm water drainage.

DELINEATOR TYPE

Curbing

MATERIALS

Concrete

APPLICATION

Curb extensions & plazas

ESTIMATED COST

Varies by retailer

TYPICAL DIMENSIONS

3-5in high, up to 1ft wide

Concrete Button Built Examples



Credit: Bikeportland

PARKING STOPS & CURBS

DEMO > PILOT > INTERIM > PERMANENT

Overview

Similar to armadillo delineators, parking stops are low-cost barriers used for flexible lane and traffic separation. These come in different materials such as recycled plastic, rubber and concrete. bolted to pavement.

Tip: Due to their low profile, they may become a tripping hazard – consider adding reflective tape in high pedestrian activity.



[Product website](#)



[Product website](#)

DELINEATOR TYPE

Curbing

MATERIALS

Recycled plastic or concrete

APPLICATION

Bikeways, roundabouts

ESTIMATED COST

\$30-75 Varies depending on material, size, quantity ordered and retailer)

TYPICAL DIMENSIONS

Varies (3-8ft long, 5.-9in wide, 4-5in tall)

Curb Stops Built Examples



