# Street Design Safety: Daylighting

**Brooklyn Community Board 6** 

September 14, 2023

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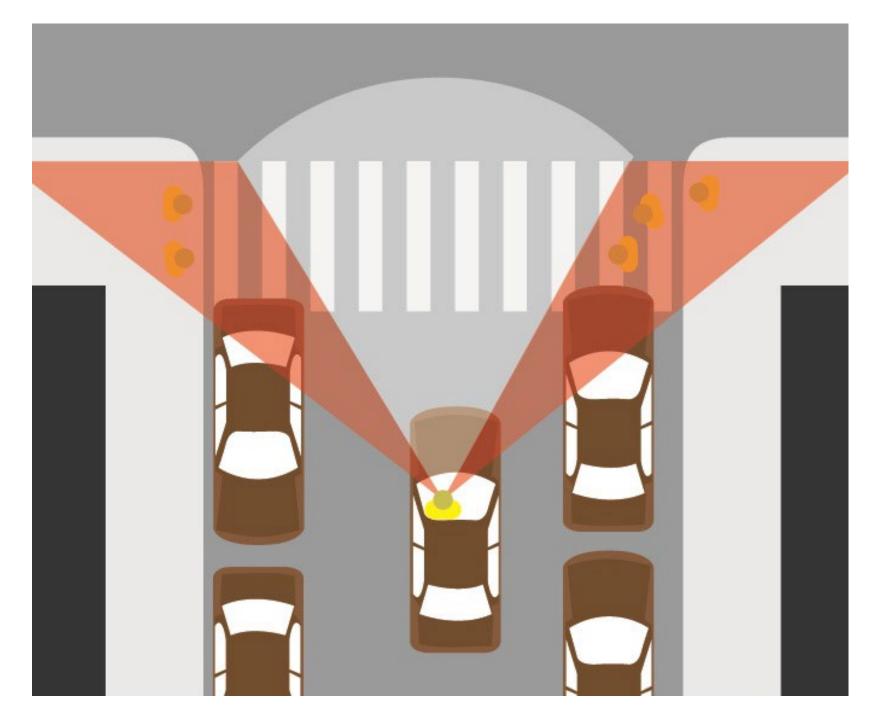
Phased Approach

## Background

#### **Definition**

#### Daylighting

- A street design intervention whereby visual obstructions closest to intersections are removed to improve visibility for pedestrians, cyclists, and motorists
- In the context of street safety, this design makes pedestrians at crosswalks more visible to drivers, reducing the chance of collisions at intersections



Source: SFMTA

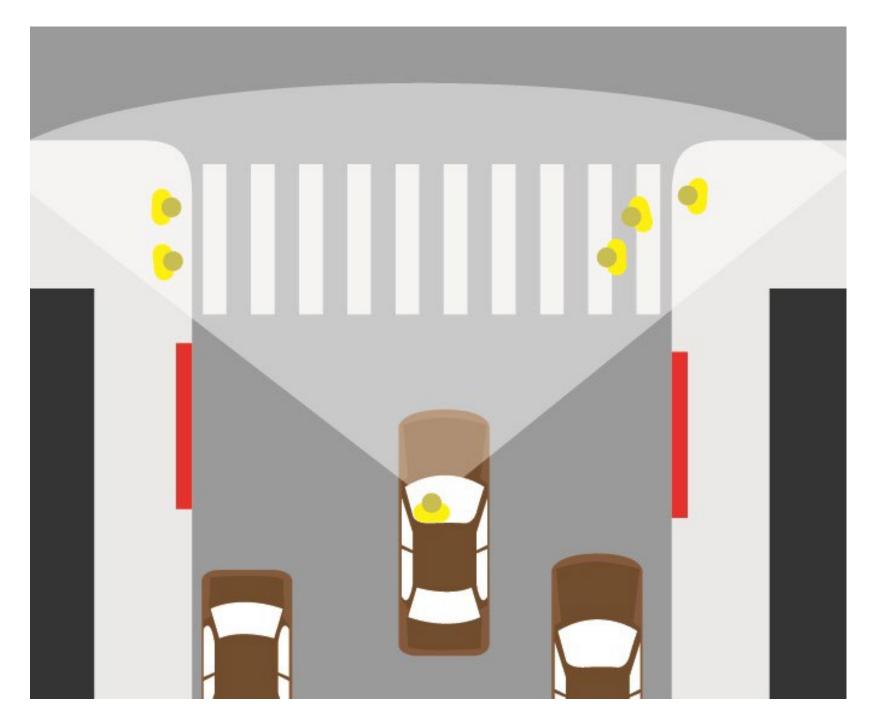
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#### · State vs. City Laws

- NYS law prohibits vehicles parking within 20ft of a crosswalk or intersection
- NYC law only prohibits parking *directly* within a crosswalk or intersection



Source: SFMTA

## Street Design Framework

#### Intersections

- Over half of crashes in New York City occur at intersections, including the vast majority that injure or kill pedestrians
- Intersections have the most conflict points between different road users, and highest volume of pedestrians



**Source:** CrashMapper reported collision data involving an injury (2023)

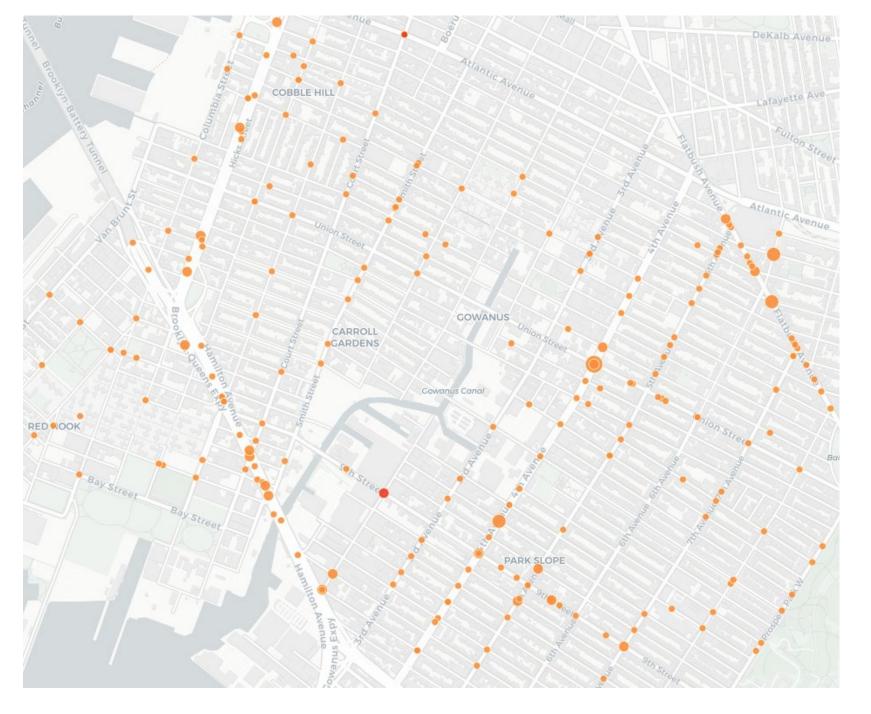
## Street Design Framework

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#### Safe Systems Approach

- Death and serious injury are unacceptable on our streets
- Humans will make mistakes—minimize the impact of those mistakes
- Humans are vulnerable—always design for the most at-risk groups
- Safety should be proactive
- Redundancy is key

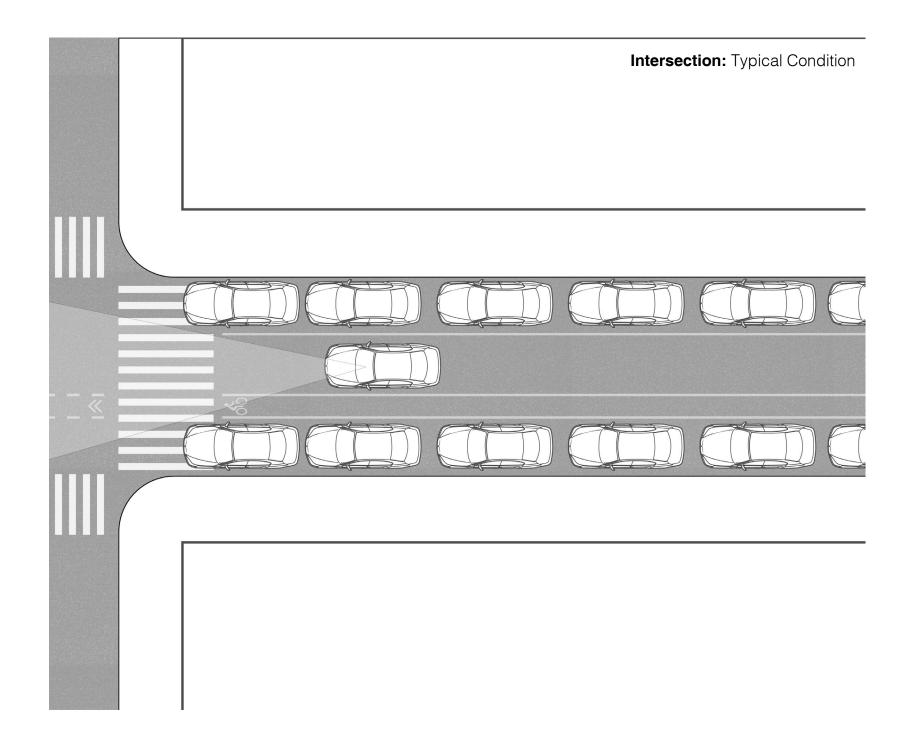


Source: CrashMapper reported collision data involving an injury (2023); U.S. DOT Vision Zero Program

## **Street Design Framework**

#### Daylighting Benefits

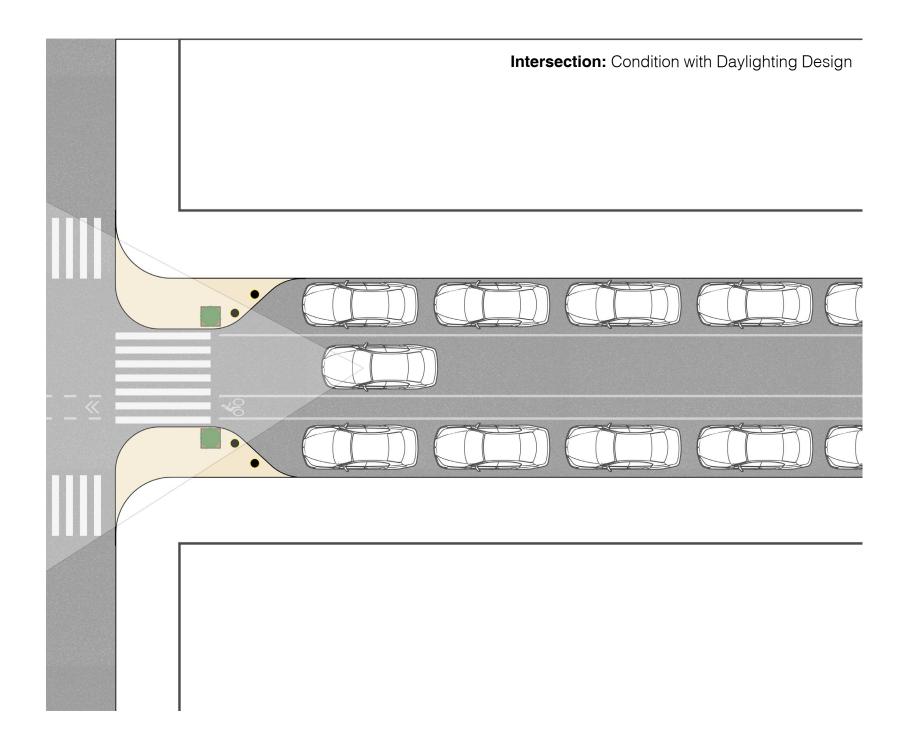
- Increases visibility of pedestrians to motorists
- Increases visibility of vehicles to pedestrians
- Shortens crossing distance for pedestrians
- Protects ADA accessibility
- Reduces crowding at crosswalks
- Provides space for public amenities



## **Street Design Framework**

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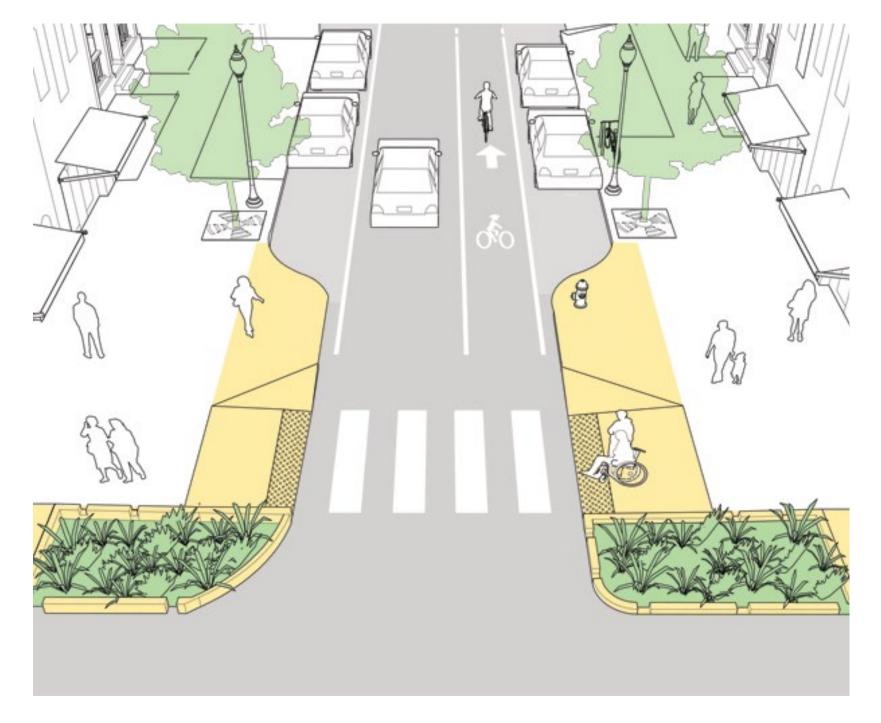
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**Source:** National Association of Transportation Officials (NACTO)

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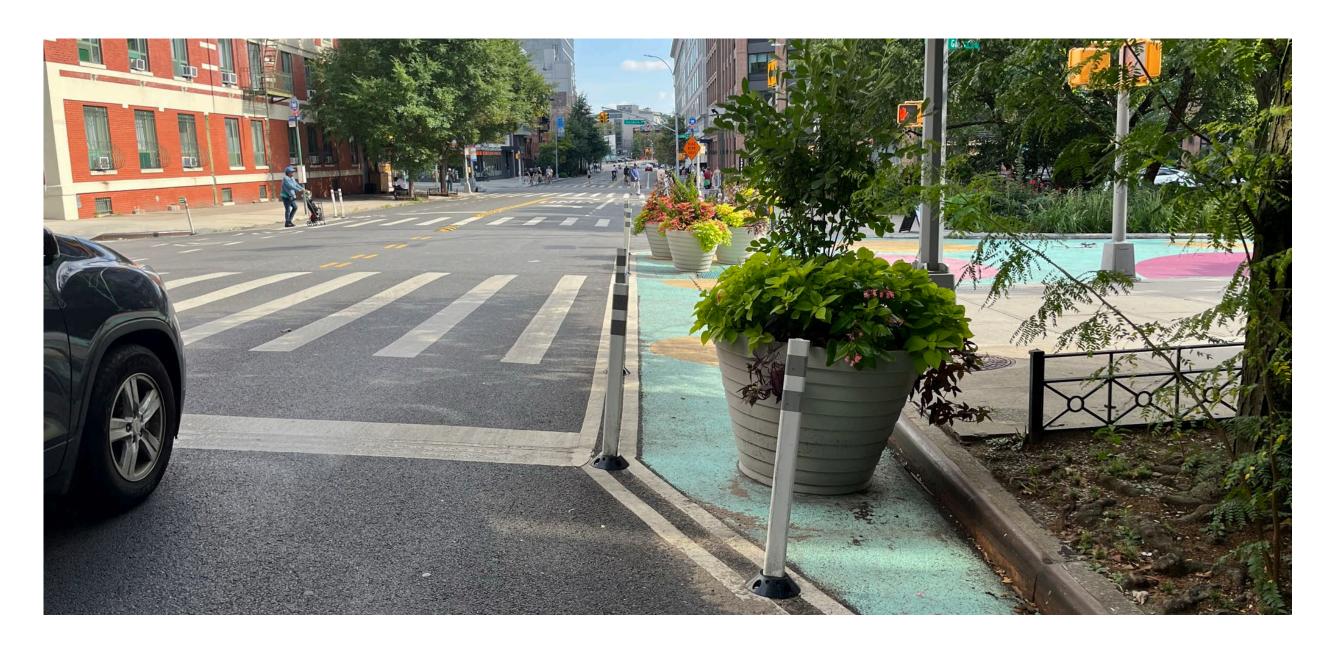
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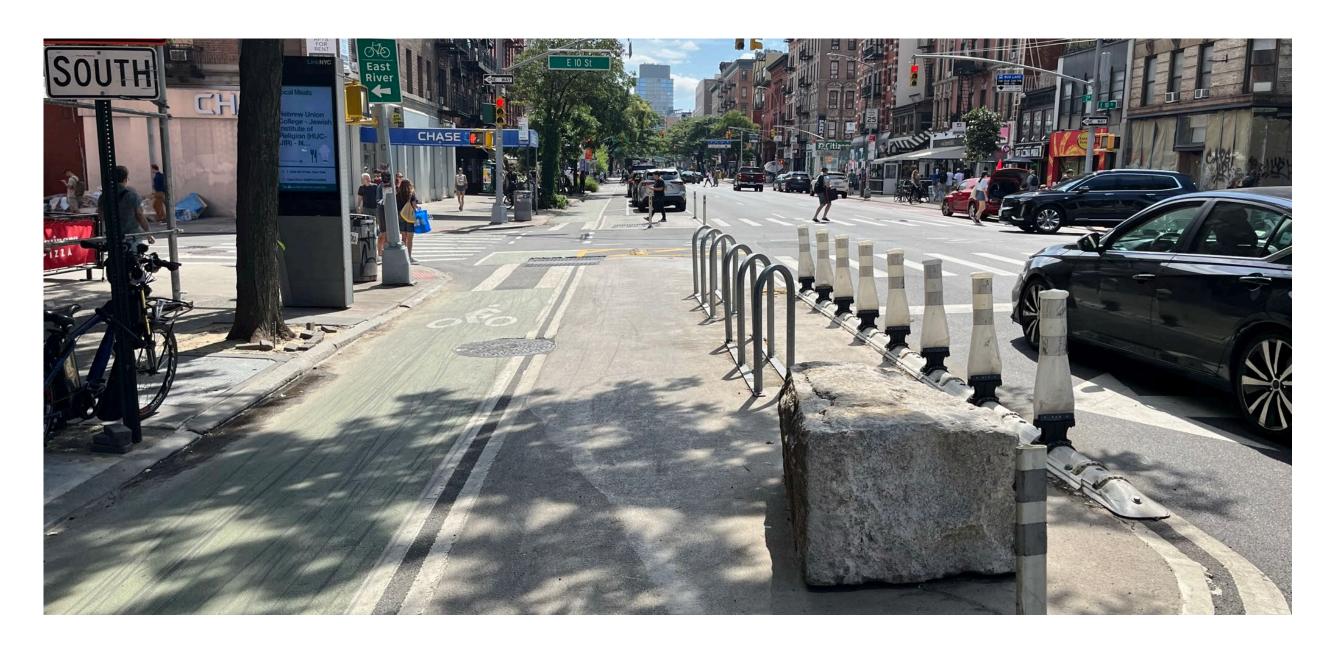
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## **Precedents**





Source: NYC DOT







Source: NYC Street Design Manual



### Precedents: Hoboken



**Source:** Curbed; Photo Credit Chris Robbins

### Precedents: Hoboken



Source: City of Hoboken

### Precedents: Hoboken



**Source:** Tim Evans, New Jersey Future

### Precedents: Chicago



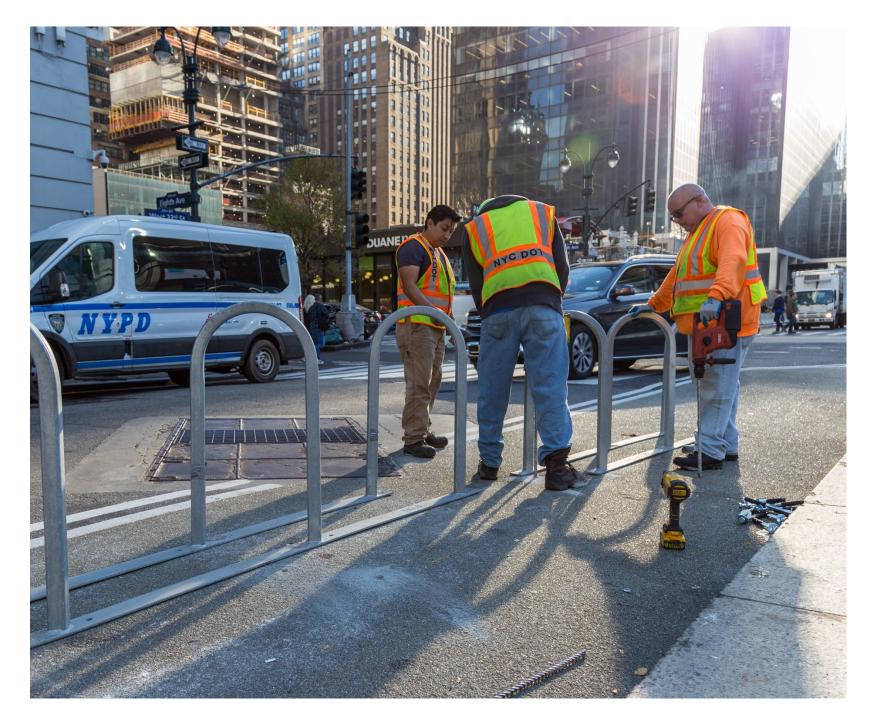
Source: Sam Schwartz Engineering

## Implementation

## Incremental Approach

#### Interim / Pilot

- Textured paint, lane markings, flex posts, rubber medians, planters, bike racks, granite blocks
- Low cost



Source: NYC DOT

## Incremental Approach

#### Interim / Pilot

- Textured paint, lane markings, flex posts, rubber medians, planters, bike racks, granite blocks
- Low cost

#### • Long-term / Permanent

- Concrete curb extensions, permanent plantings, bioswales, benches, CitiBike stations, trash/recycling containers, information kiosks
- Moderate cost

