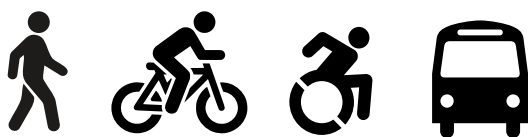


E 21st St Safety Project Toolkit

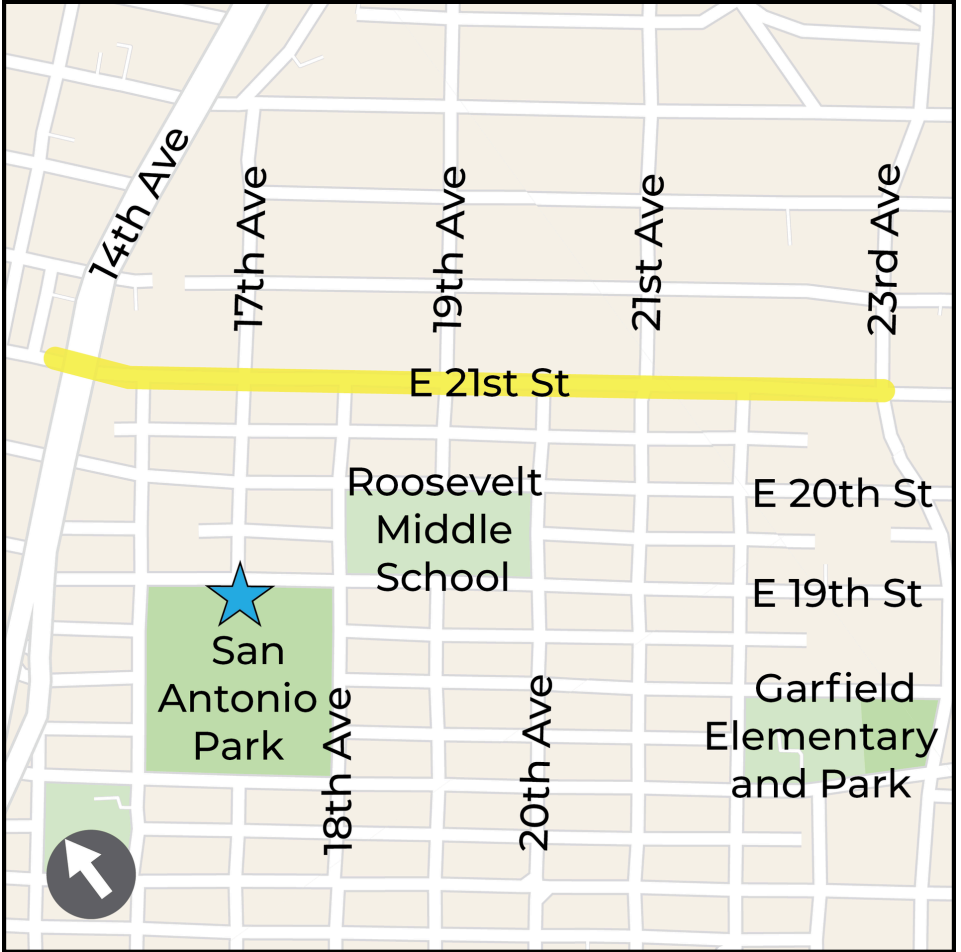
Design elements to improve safety and accessibility for people walking, biking, and riding the bus.



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TRANSPORTATION

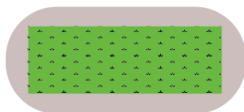
Project Map



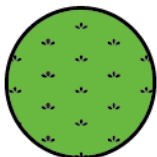
Design Toolkit



Pedestrian safety islands



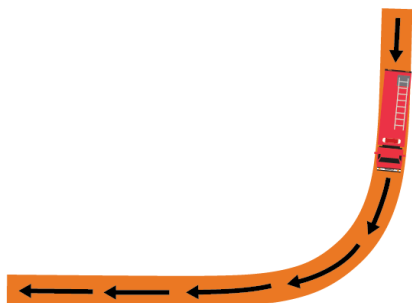
Corner island



Traffic circles



Speed cushions



Fire truck turning requirements

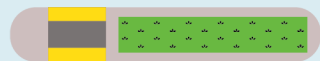
Pedestrian Safety Islands



Pedestrian safety islands **shorten crossing distances** and **provide a safe space** for people to wait and rest. Pedestrian safety islands can be planted with greenery.

Pedestrian safety islands are proven to **reduce crashes by 19-33%**, according to the FHWA.*

*Federal Highway Administration



Speed Cushions



Speed cushions are raised asphalt surfaces between 3-4 inches high with **slots for bus wheels**.

In a study by the FHWA*, speed cushions **reduced average speeds to 15 to 20 mph**.

*Federal Highway Administration



Traffic Circles



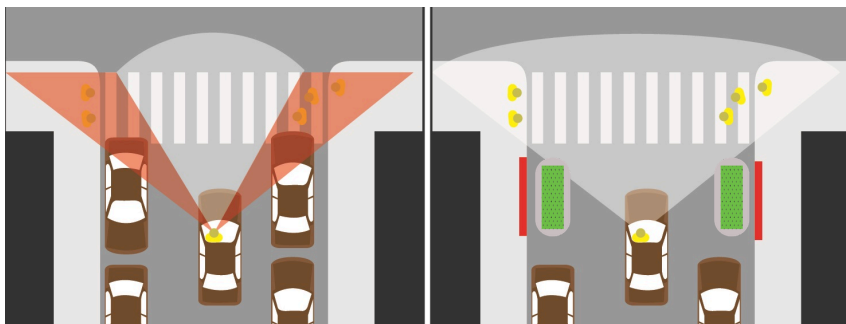
Traffic circles are concrete islands in the middle of an intersection.

Traffic circles cause cars to **slow down** around the curve. A study by the FHWA* found that they **reduced fatal and injury crashes by 82%**.

*Federal Highway Administration



Corner Islands



Without daylighting

With daylighting

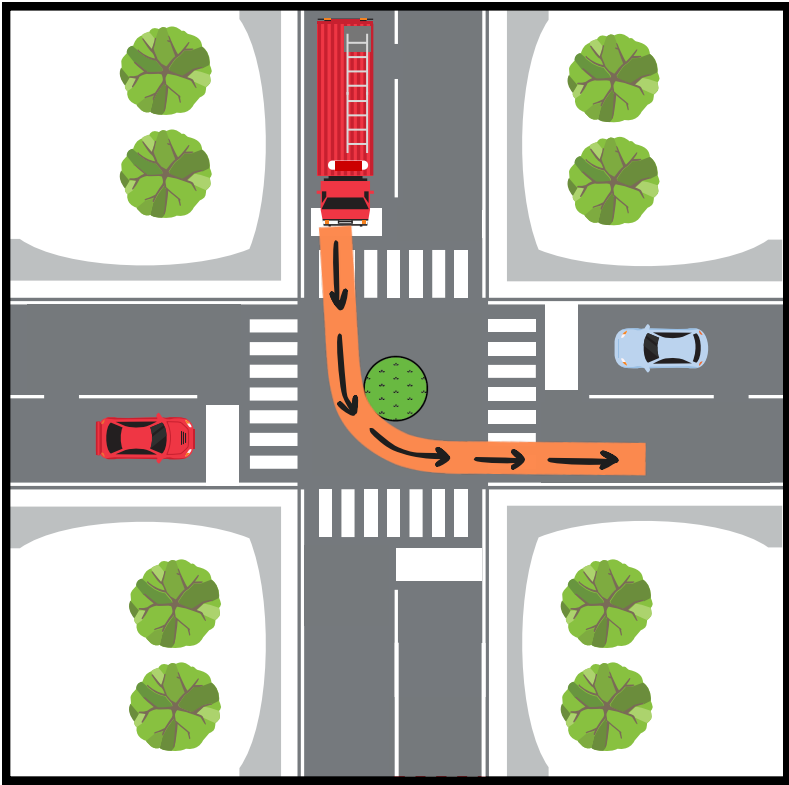
Corner islands prevent cars from parking close to crosswalks. This **improves pedestrian visibility** (and is also known as daylighting). They can be planted with greenery.

A study by NYCDOT* showed that daylighting **reduced pedestrian injuries at crosswalks.**

*New York City Department of Transportation



Fire Truck Turning



All street design changes need to allow for **fire truck access and turning at all intersections.**

OakDOT uses turning diagrams to test potential designs to ensure emergency access.

