



Downtown Master Plan
MANITOWOC
ADOPTED DECEMBER 17, 2018



“Downtown is not seen as bicycle & pedestrian friendly.”

“Improve visual character...”

“Character and visual experience of downtown play a critical role in drawing people... along with access...”

“improve visibility, safety, and comfort for pedestrians, cyclists, and motorists.”

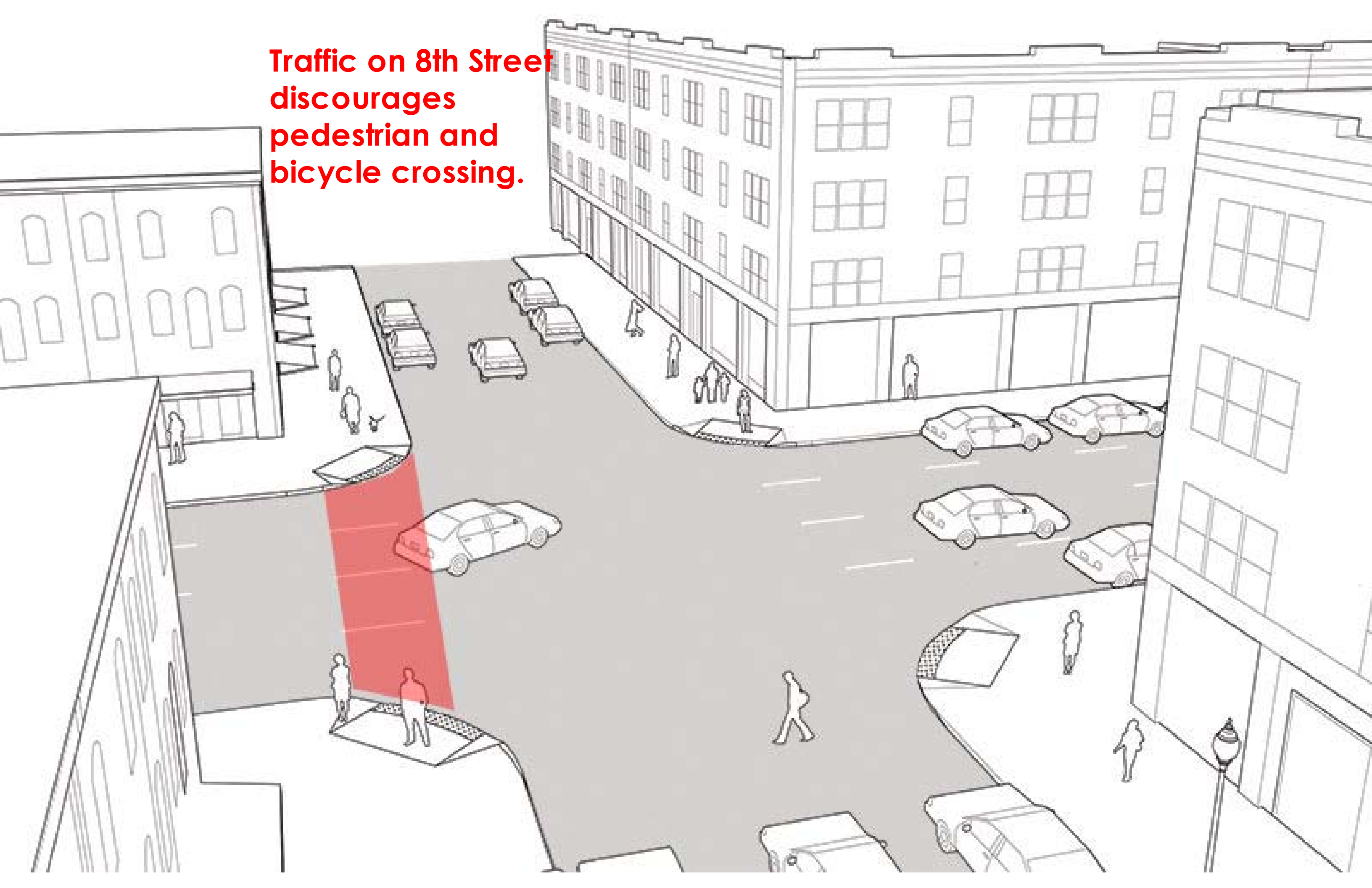
“Quay Street connection to the Badger... not only provides access, but acts as a gateway to downtown”

“enhancing the existing curb with bump-outs at key pedestrian crossings”

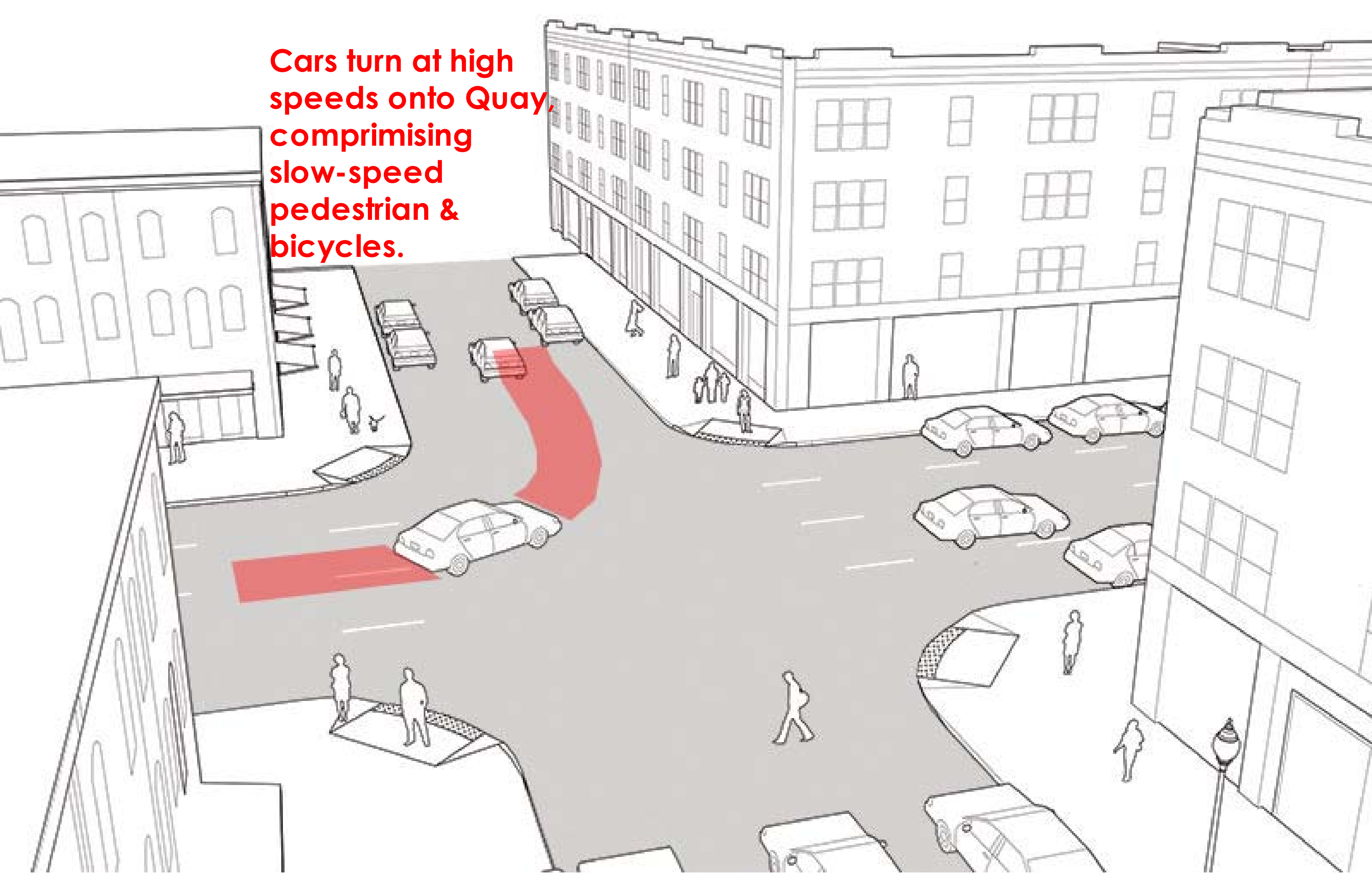
“ornamental lighting, additional street trees.”

“community has shown that it will support development and public improvement projects...”

Traffic on 8th Street discourages pedestrian and bicycle crossing.



Cars turn at high speeds onto Quay, comprimising slow-speed pedestrian & bicycles.

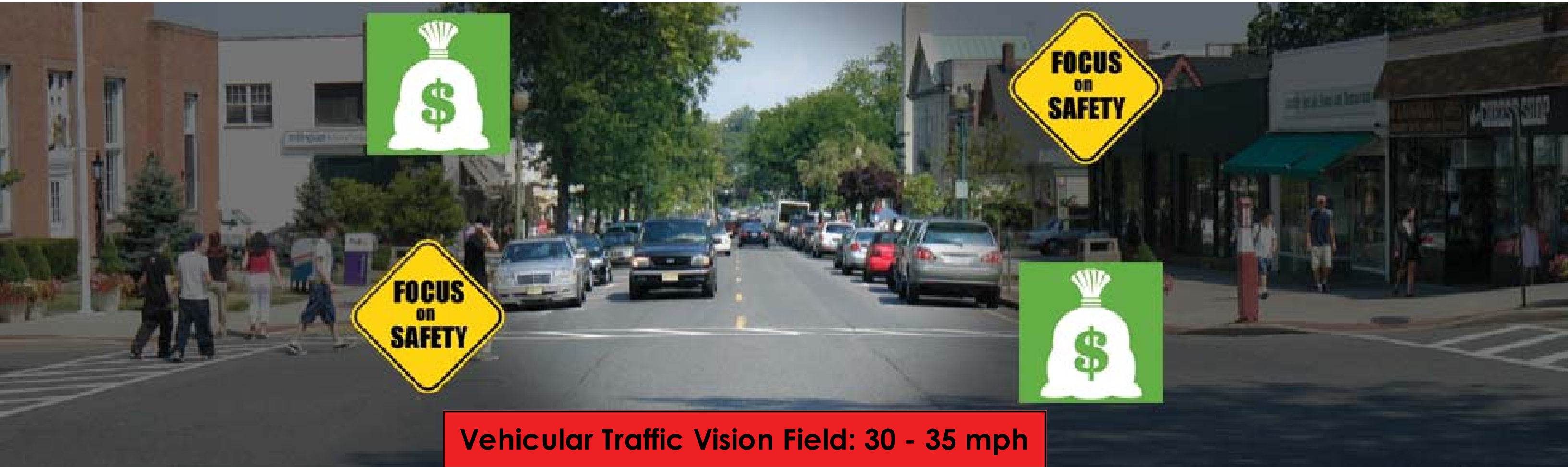




Vehicular Vision Field: 10-15 mph



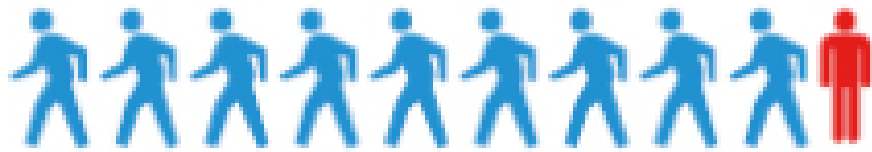
Vehicular Vision Field: 20-25 mph



Vehicular Traffic Vision Field: 30 - 35 mph

HIT BY A VEHICLE
TRAVELING AT:

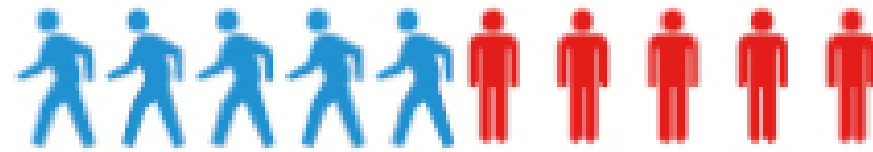
20
MPH



9 out of 10 pedestrians survive

HIT BY A VEHICLE
TRAVELING AT:

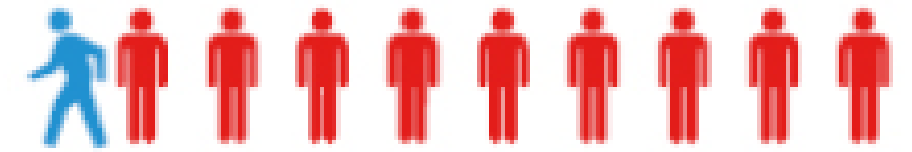
30
MPH



5 out of 10 pedestrians survive

HIT BY A VEHICLE
TRAVELING AT:

40
MPH



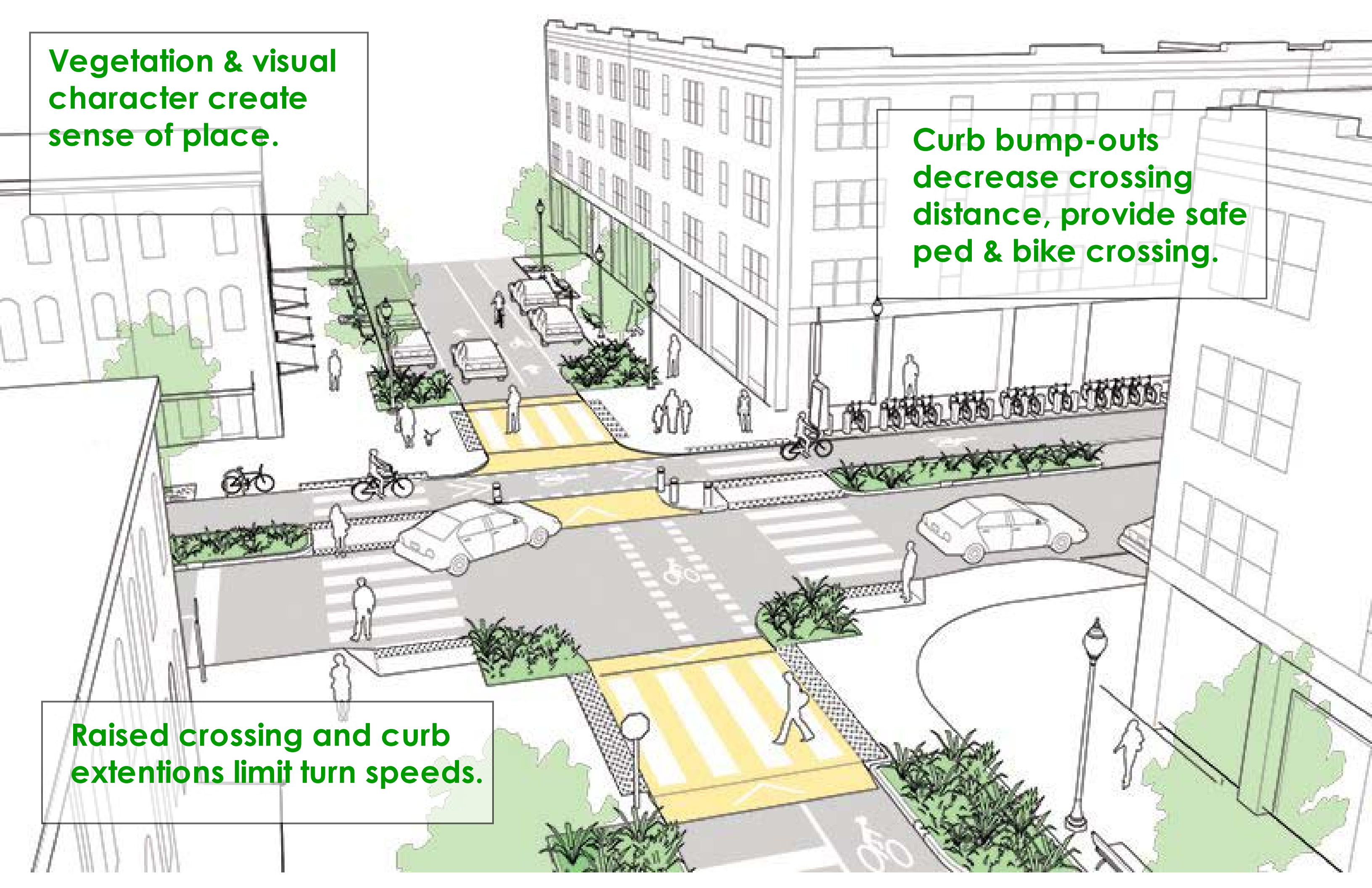
Only 1 out of 10 pedestrians survives

National Highway Traffic Safety Administration

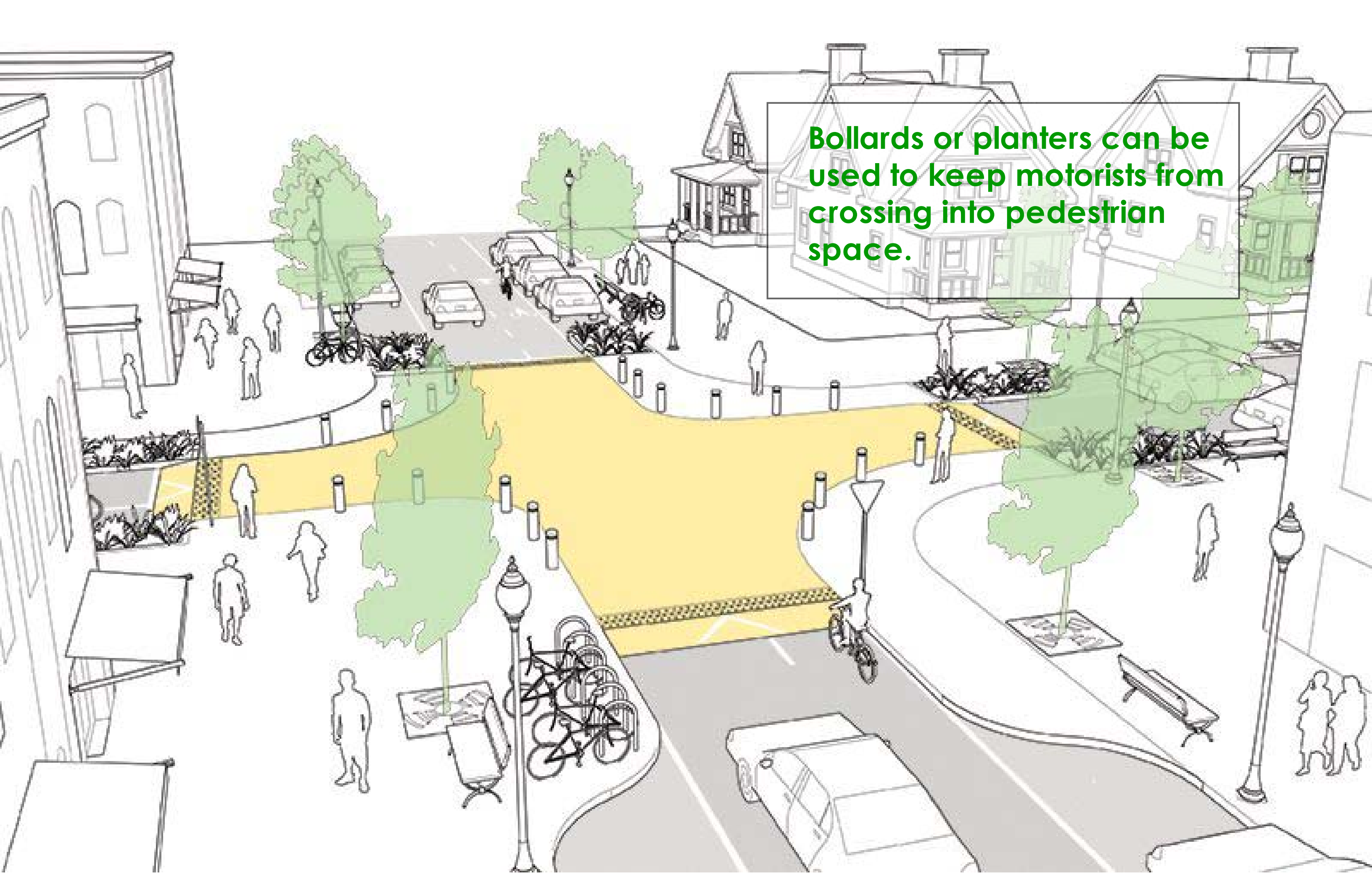
Vegetation & visual character create sense of place.

Curb bump-outs decrease crossing distance, provide safe ped & bike crossing.

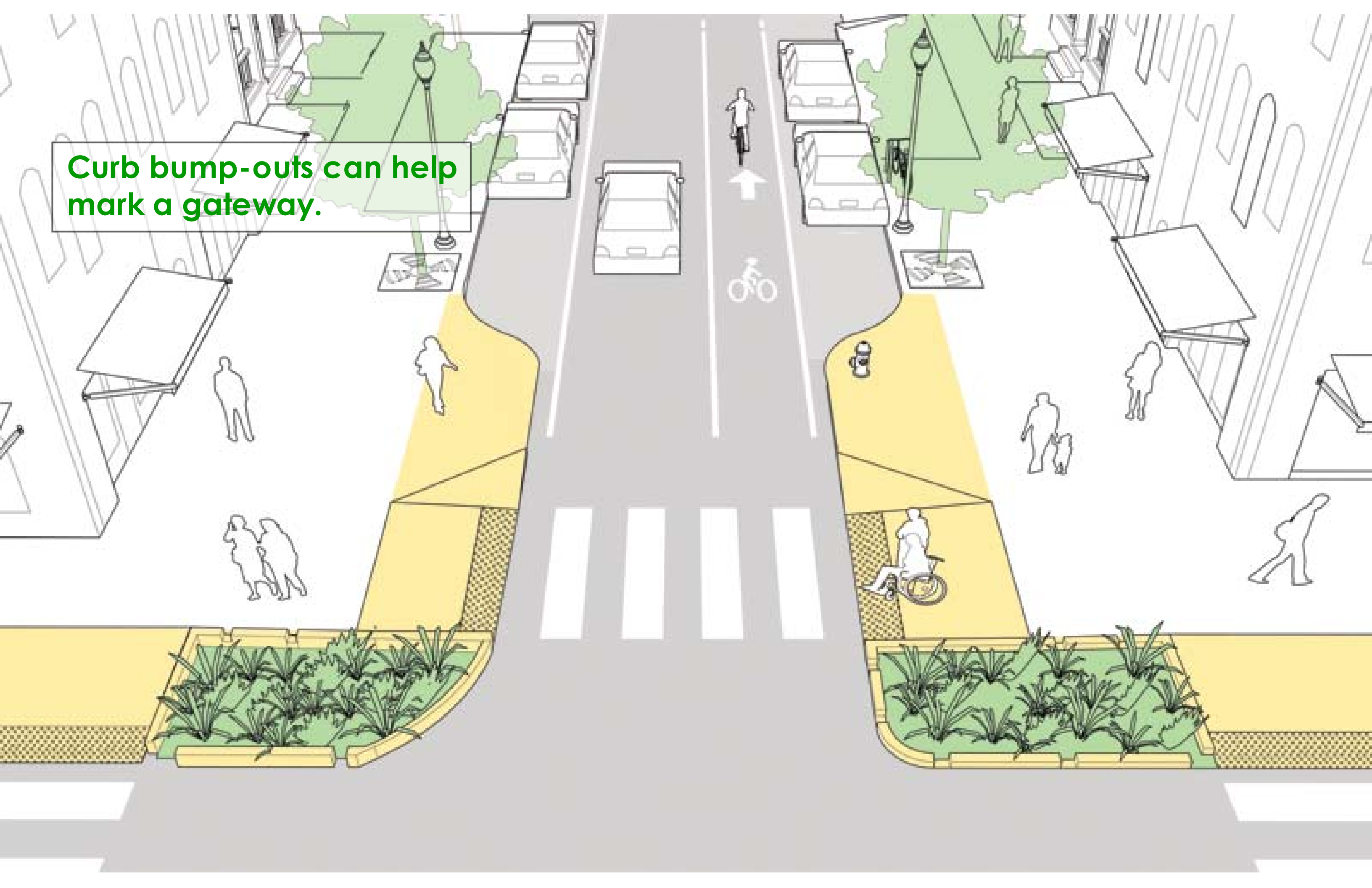
Raised crossing and curb extensions limit turn speeds.



Bollards or planters can be used to keep motorists from crossing into pedestrian space.



Curb bump-outs can help mark a gateway.



Downtown 2018 Remaining Budget Allocation

7.2.19

Phase 1 Traffic Calming Intersection Reconstruction

| | | |
|-------------------------------------|--|---------------------|
| Spring / Summer 2020 | Concrete Flatwork, Curb reconstruction, storm rework | \$62,500.00 |
| | Crosswalk reconstruction, striping | \$20,000.00 |
| | Electrical - New lamps, electrical service rework. | \$15,000.00 |
| | Site landscaping, ornamental curb | \$25,000.00 |
| | Site furnishings | \$15,000.00 |
| | Street trees | \$16,000.00 |
| | Misc Site Metals | \$7,500.00 |
| | Misc Signage | \$5,000.00 |
| | 10% Contingency | \$16,600.00 |
| Total Estimated Cost of Work | | \$182,600.00 |

Phase 1 Streetscape Enhancement

| | | |
|-------------------------------------|--|---------------------|
| Late Summer 2019 | Trees, grates, guards, electrical, installation. (20) | \$80,000.00 |
| | Site furnishings | \$20,000.00 |
| | Misc Signage & Fabrications | \$7,000.00 |
| | Landscaping | \$5,000.00 |
| | Misc upfront maintenance materials, establishment, equipment | \$18,000.00 |
| | 10% Contingency | \$13,000.00 |
| Total Estimated Cost of Work | | \$143,000.00 |

Small Projects Allowances

| | | |
|-------------------------------------|------------------------|--------------------|
| 2019 - 20 | Civic Art | \$17,500.00 |
| | Projecting Signs Grant | \$7,500.00 |
| | 10% Contingency | \$2,500.00 |
| Total Estimated Cost of Work | | \$27,500.00 |

Recommended Alternates

| | | |
|-------------------------------------|--|--------------------|
| 2019 - 20 | Additional Life Buoys | \$7,500.00 |
| | Existing Pedestrian Lighting Replacement | \$15,000.00 |
| | 10% Contingency | \$2,250.00 |
| Total Estimated Cost of Work | | \$24,750.00 |