

**DOWNTOWN DAVENPORT  
TRAFFIC & STREET SECTIONS**



# LANE CAPACITY CRITERIA

- All streets carry  $\leq 12,000$  vehicles per day
- Design to manage speeds by minimizing pavement and lane width
- Look at turning movements to inform intersection design.

## Criteria for 2-lane/2-way downtown segment

	Level of Service			
	B	C	D	E
AADT (vpd)	12,500-14,500	14,500-17,000	16,500-18,500	18,500-21,000
Average travel speed (mph)	> 20	> 15	> 12	> 9

Adapted from Federal Highway Administration's [Simplified Highway Capacity Calculation Method](#), 2017

- Consider left-turn lane when  $> 750$  vpd
- Consider right-turn lane when  $> 1500$  vpd and  $> 3000$  vpdpl on mainline

# TURNING MOVEMENTS

Monday, September 17, 2018

---

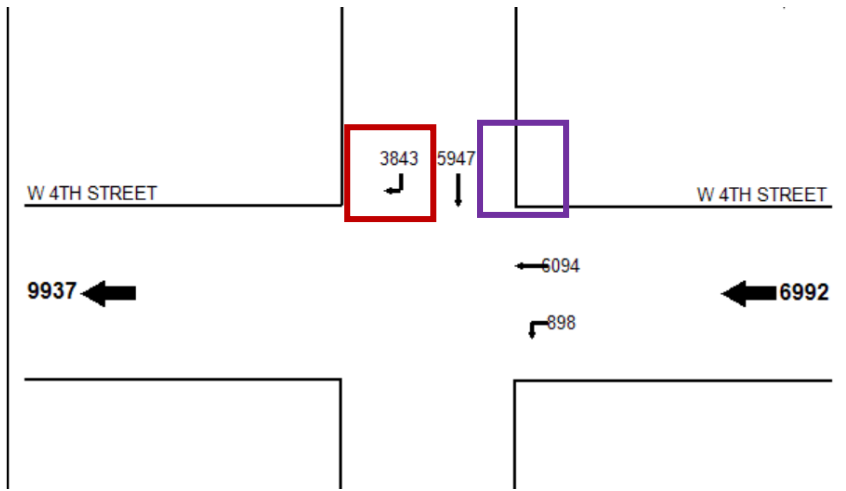
County:  
Scott

---

Location Description:  
IA 461 (SB) & 4TH ST (WB)

---

Volume Factor: 1.016  
Pass Class Factor: 1.030  
SU Class Factor: 0.886  
Combo Class Factor: 0.831



Station Number:  
82131577099

---

Count Date:  
Monday, September 17, 2018

---

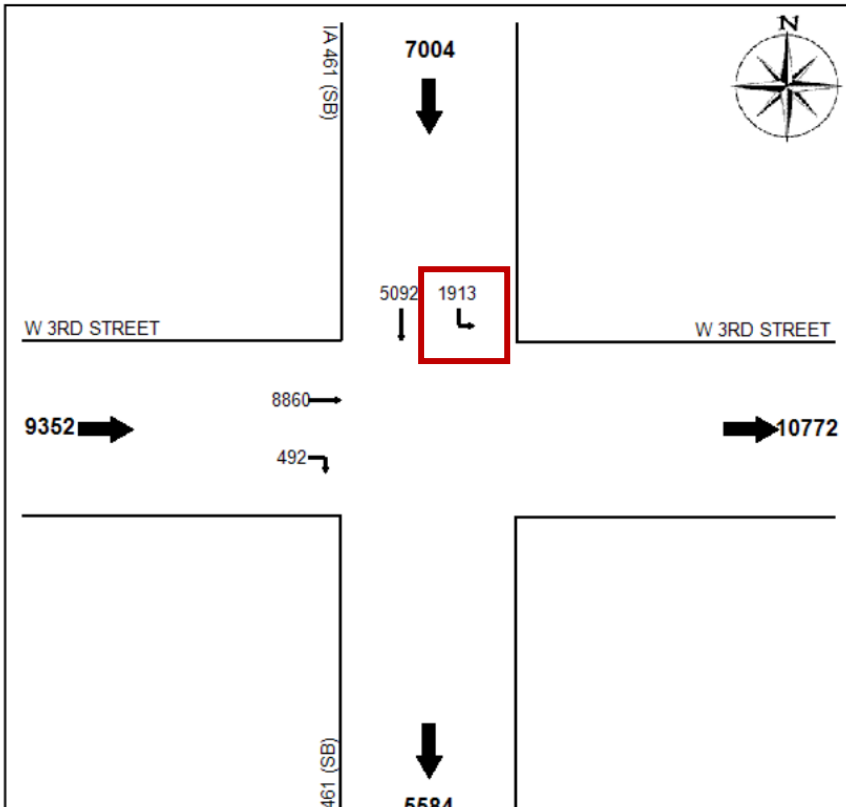
County:  
Scott

---

Location Description:  
IA 461 (SB) & 3RD ST (EB)

---

Volume Factor: 1.016  
Pass Class Factor: 1.030  
SU Class Factor: 0.886  
Combo Class Factor: 0.831



Monday, September 17, 2018

---

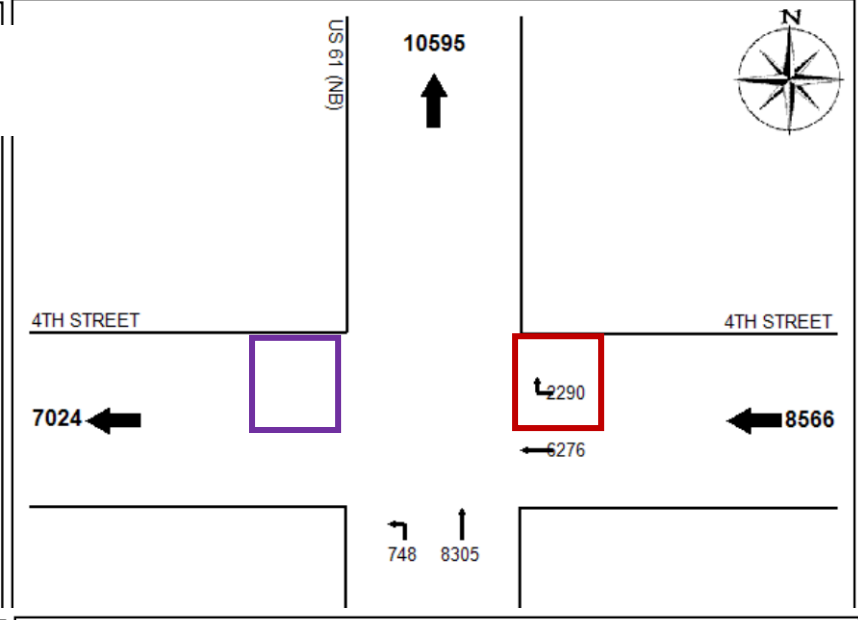
County:  
Scott

---

Location Description:  
IA 461 (NB) & 4TH ST (WB)

---

Volume Factor: 1.016  
Pass Class Factor: 1.030  
SU Class Factor: 0.886  
Combo Class Factor: 0.831



Station Number:  
82131579099

---

Count Date:  
Monday, September 17, 2018

---

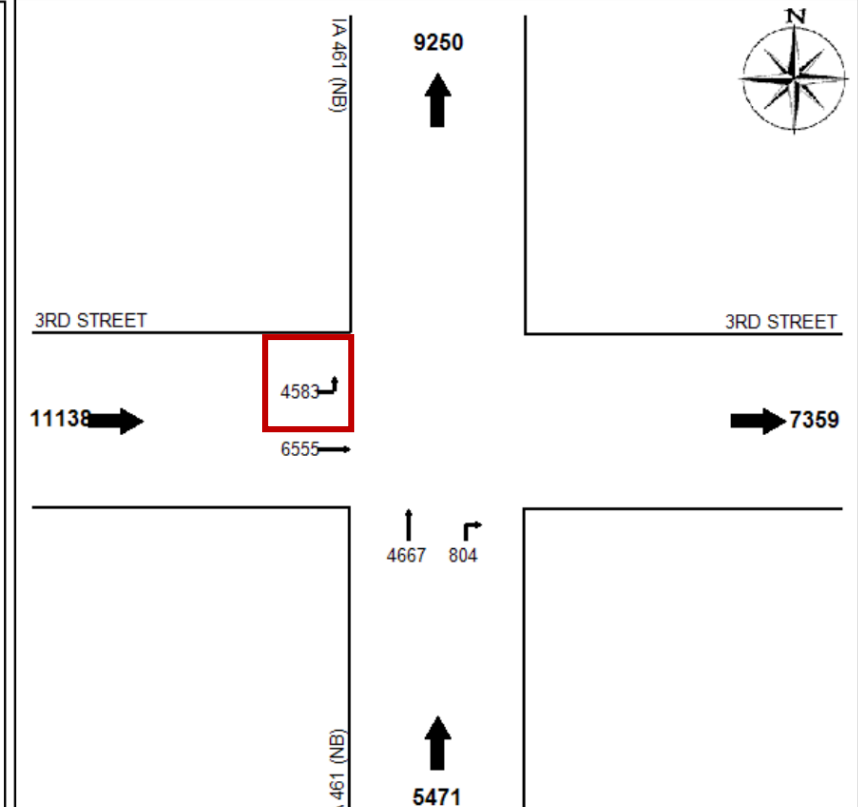
County:  
Scott

---

Location Description:  
IA 461 (NB) & 3RD ST (EB)

---

Volume Factor: 1.016  
Pass Class Factor: 1.030  
SU Class Factor: 0.886  
Combo Class Factor: 0.831



# TURNING MOVEMENTS

Station Number:  
82131377099

---

Count Date:  
Monday, September 17, 2018

---

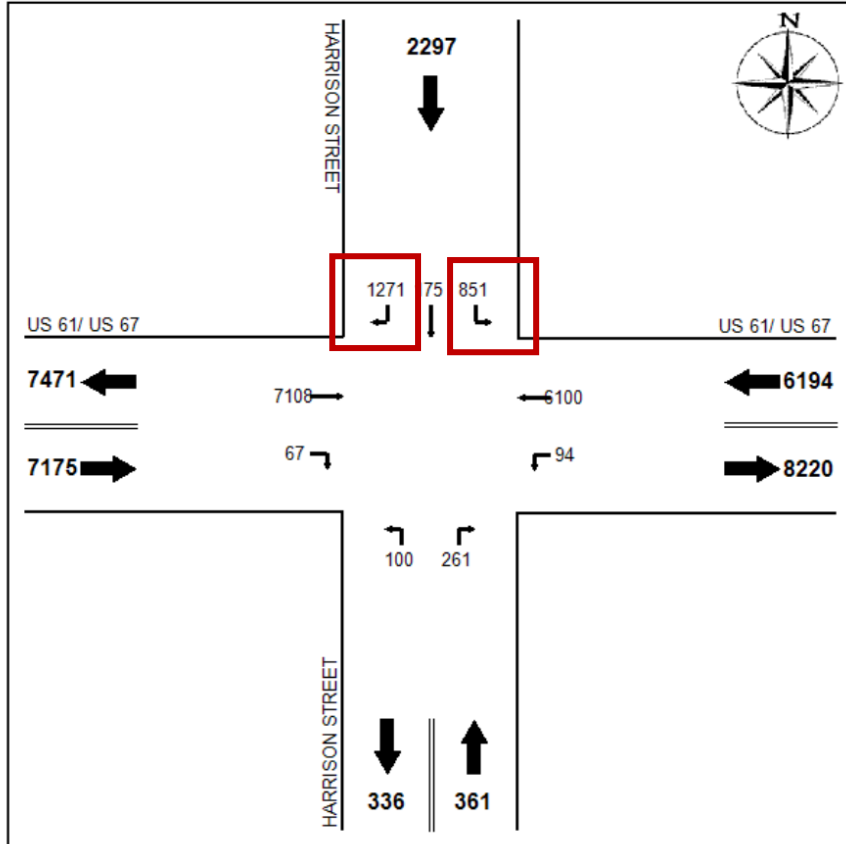
County:  
Scott

---

Location Description:  
US 67, IA 461 (SB) & S HARRISON ST

---

Volume Factor: 1.016  
Pass Class Factor: 1.030  
SU Class Factor: 0.886  
Combo Class Factor: 0.831



Station Number:  
82131484399

---

Count Date:  
Monday, June 25, 2018

---

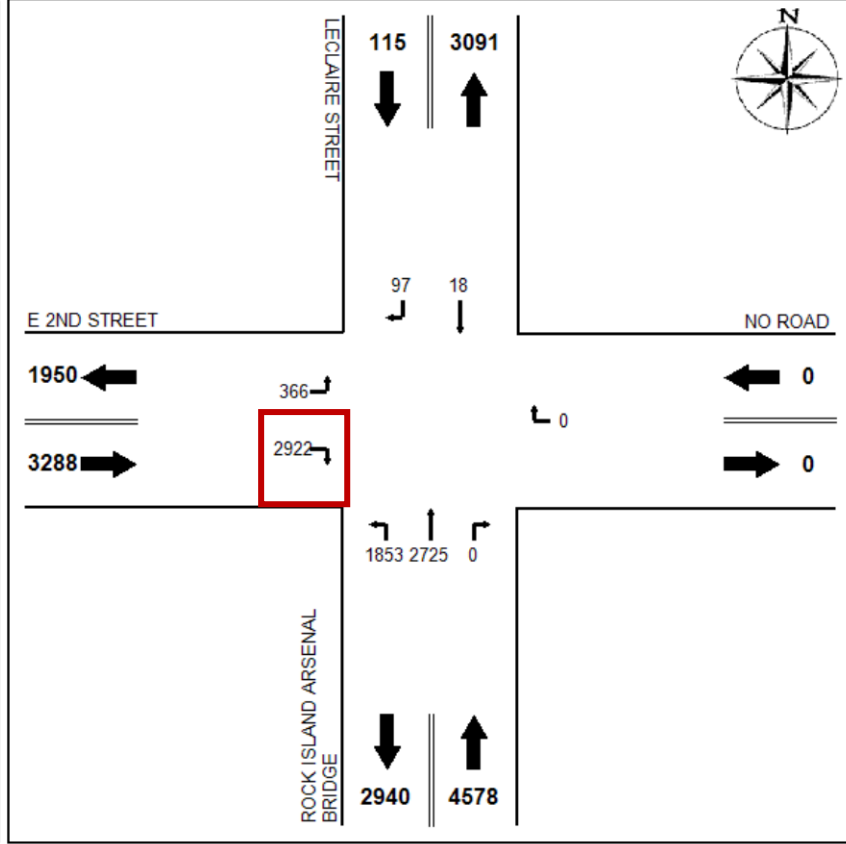
County:  
Scott

---

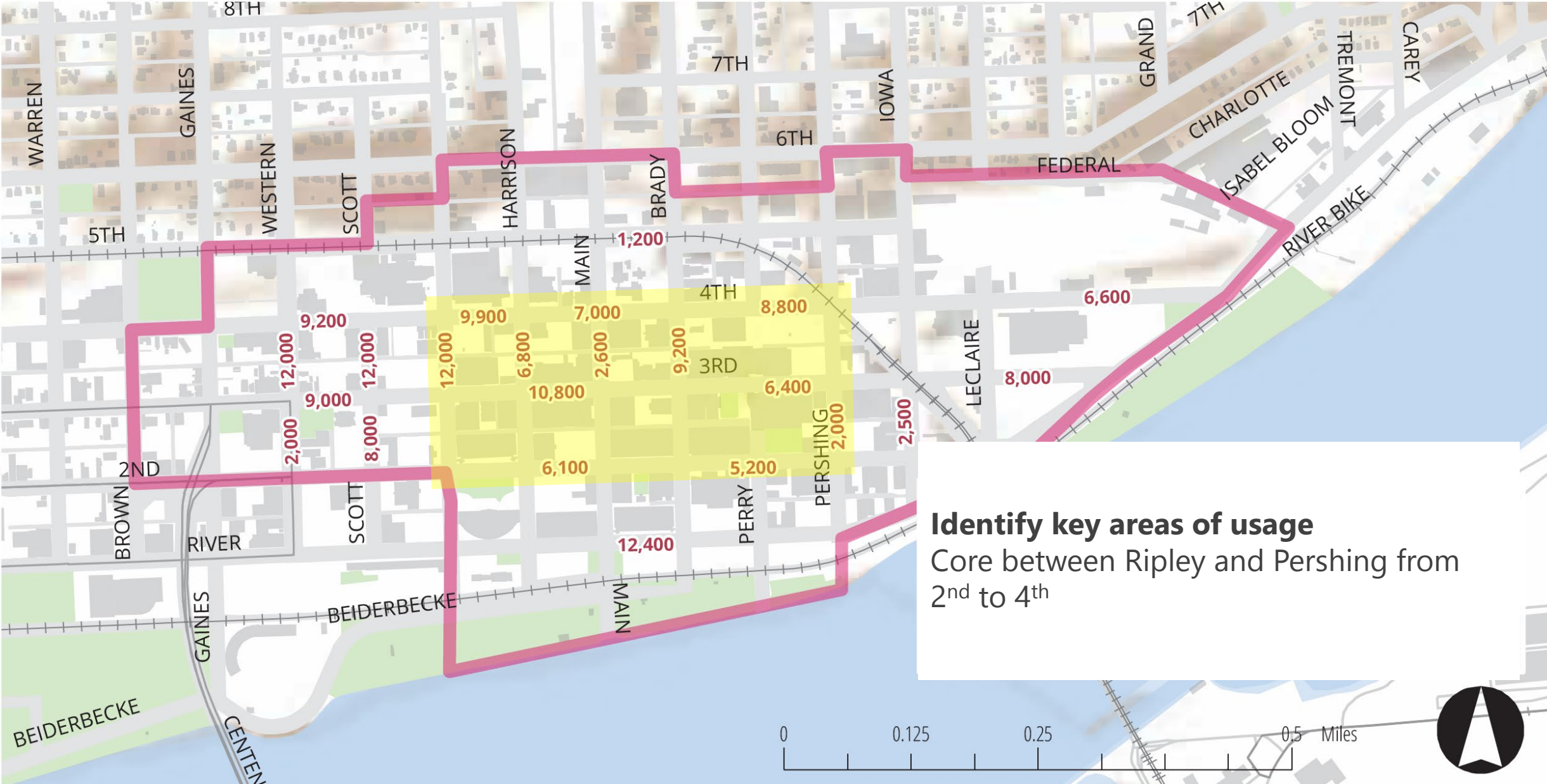
Location Description:  
E 2ND, LECLAIRE ST & ROCK ARSENAL BRIDGE

---

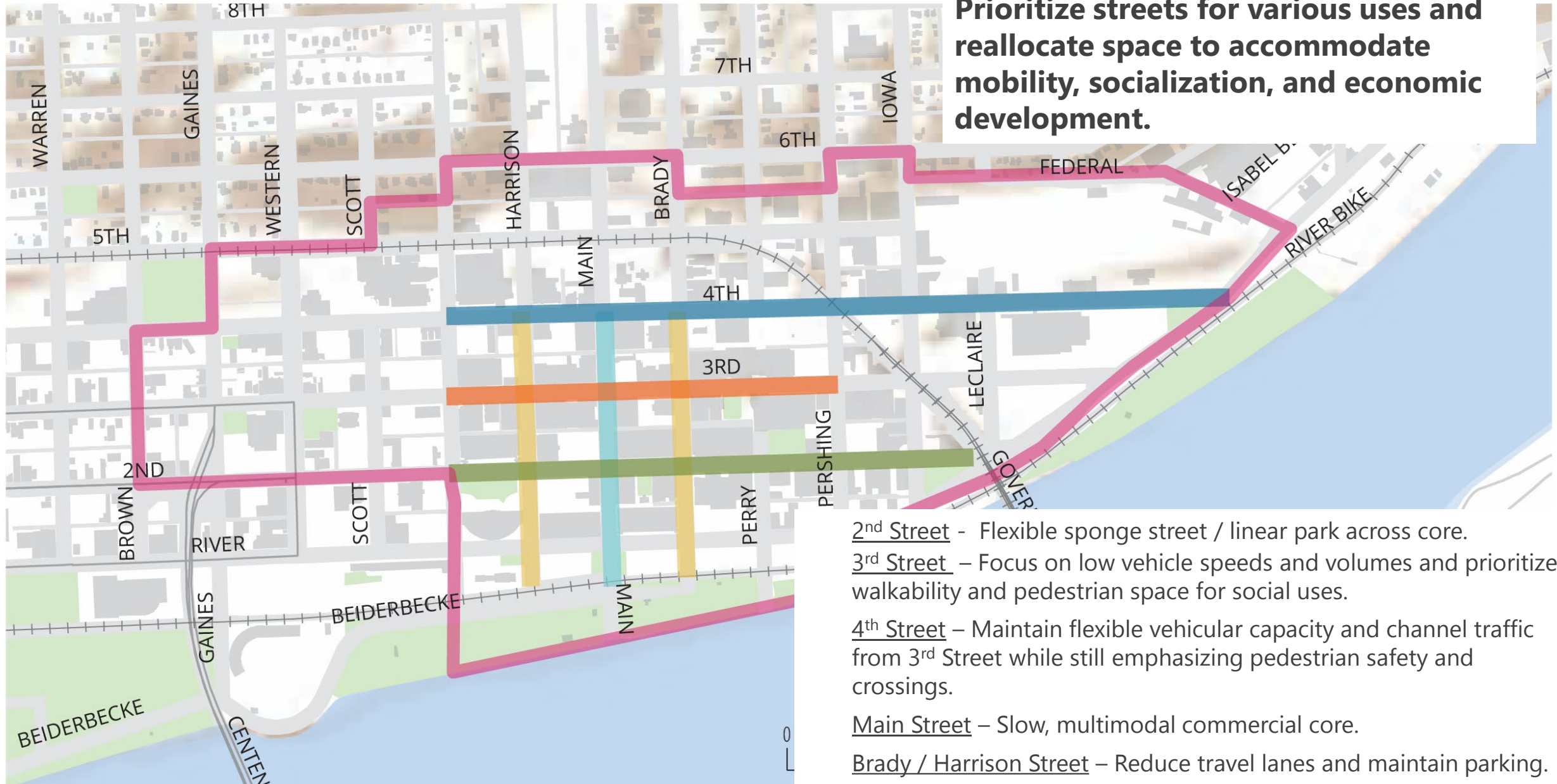
Volume Factor: 1.978  
Pass Class Factor: 1.954  
SU Class Factor: 1.639  
Combo Class Factor: 1.534



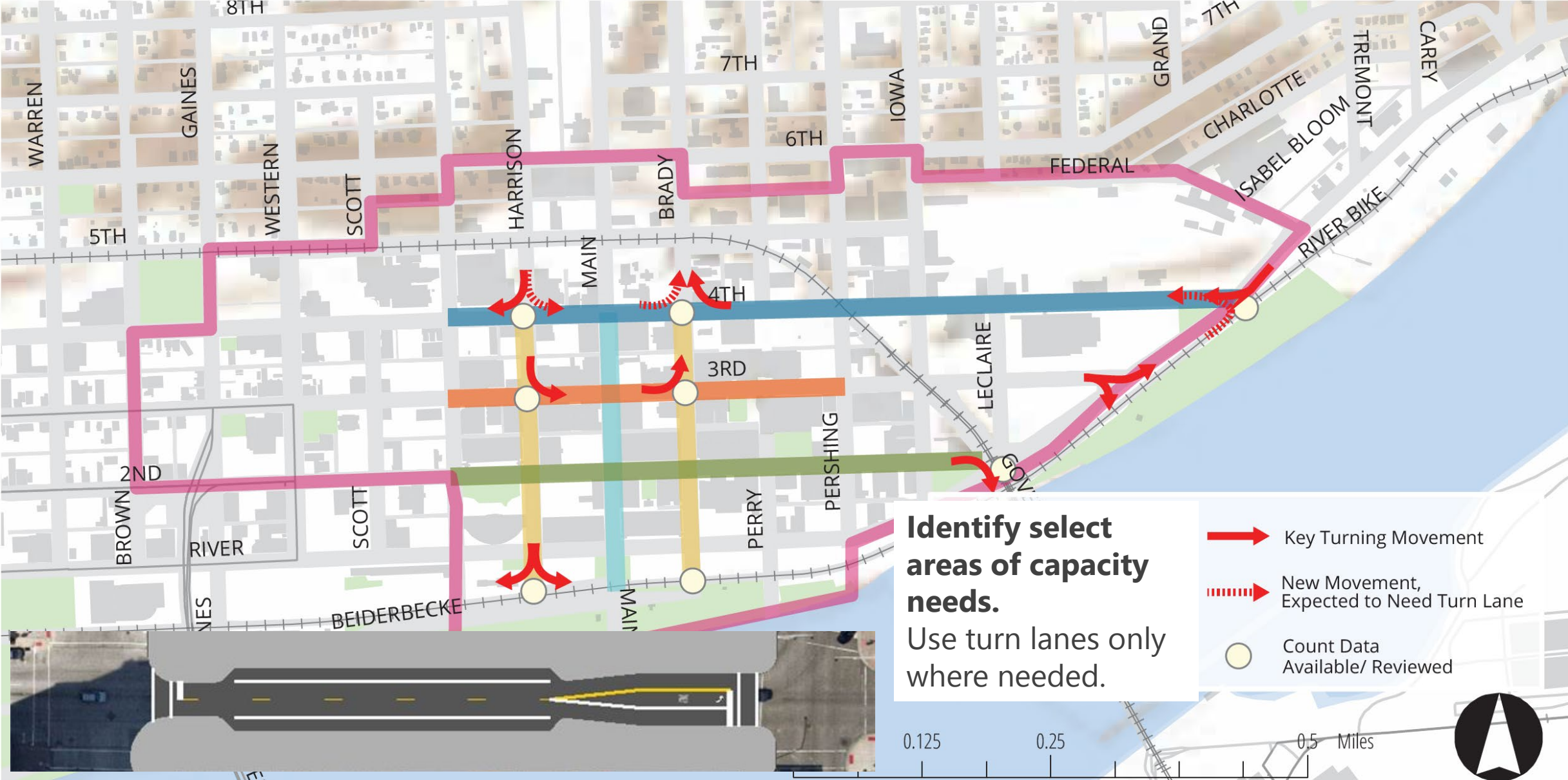
# STREET NETWORK STRATEGIES





# STREET NETWORK STRATEGIES



# STREET NETWORK STRATEGIES



**Identify select areas of capacity needs.**  
 Use turn lanes only where needed.

-  Key Turning Movement
-  New Movement, Expected to Need Turn Lane
-  Count Data Available/ Reviewed

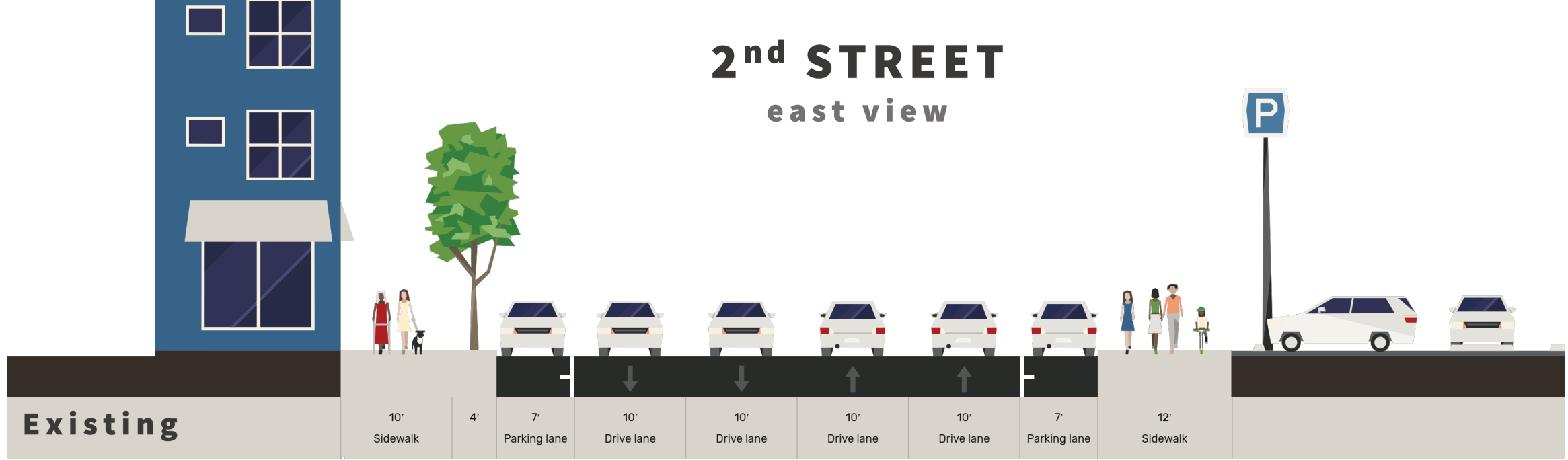
0.125 0.25 0.5 Miles



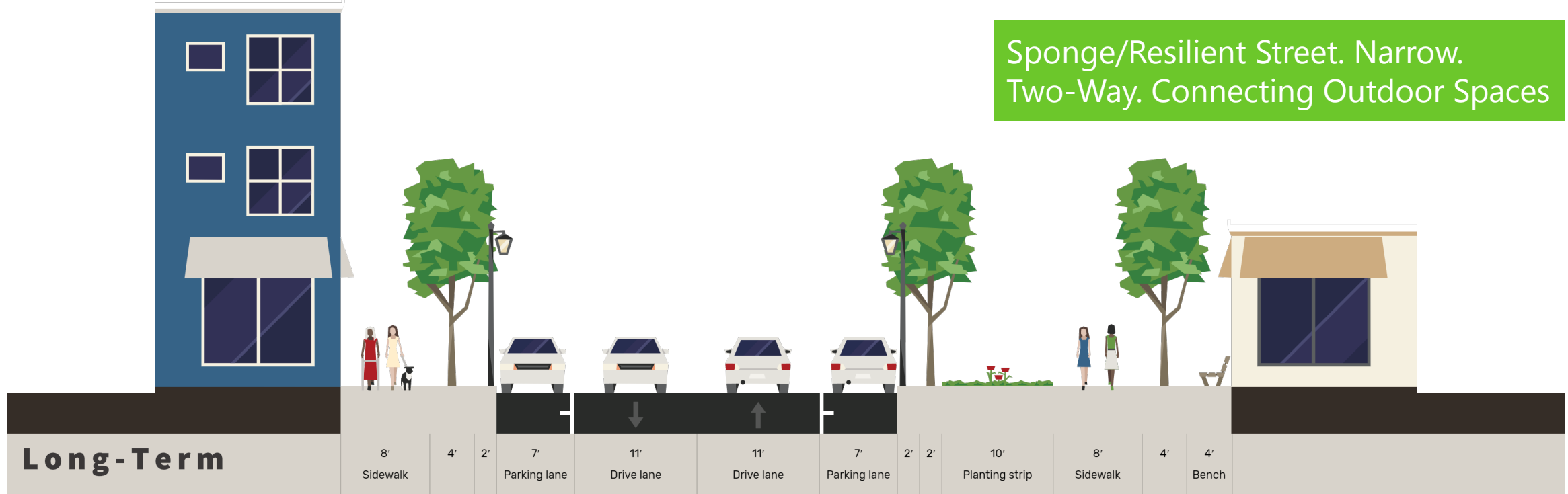
# **STREET SECTION OPTIONS**

# 2<sup>nd</sup> STREET

## east view

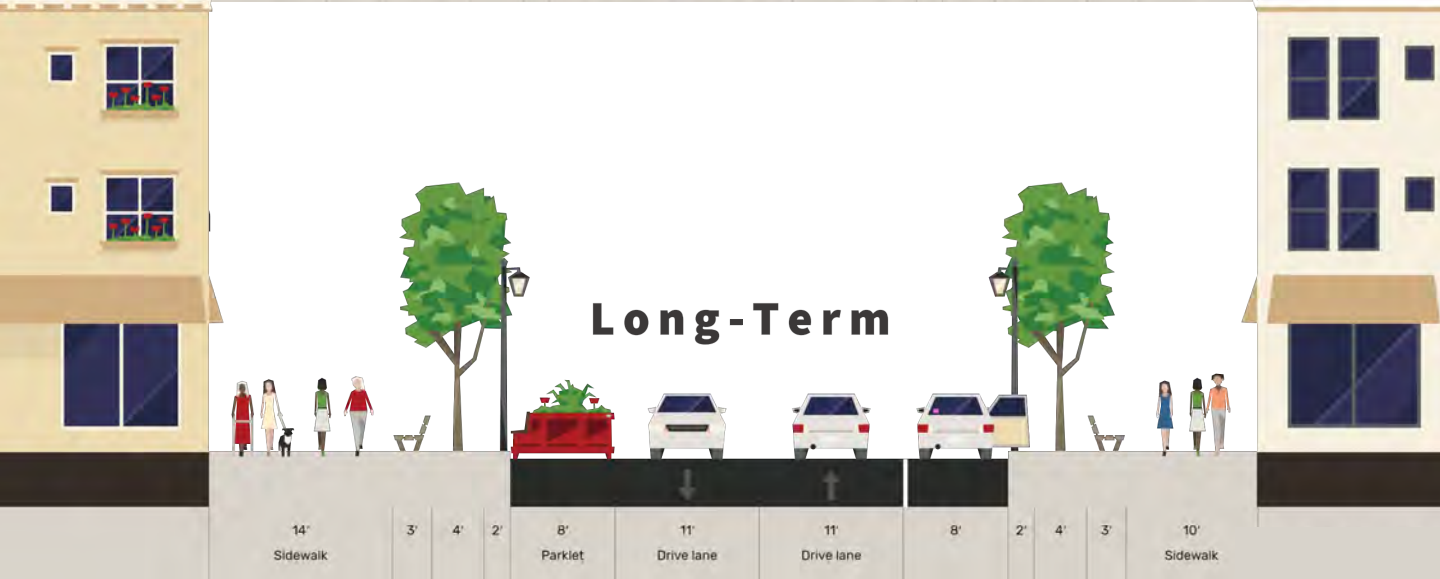
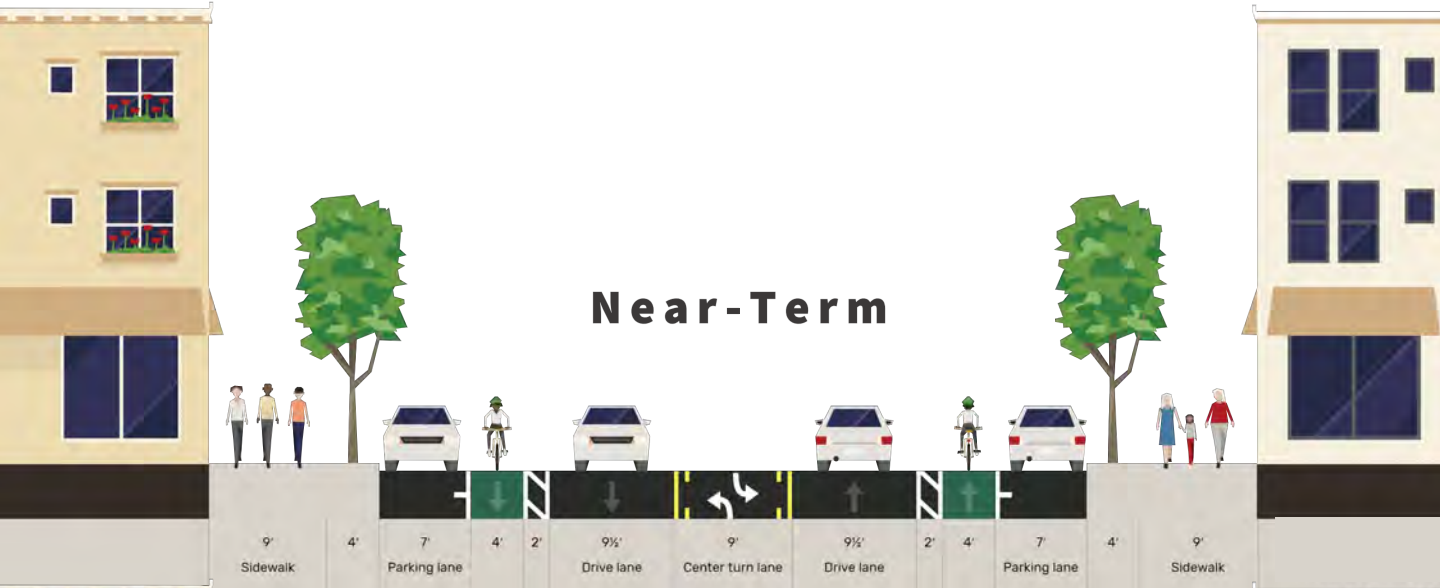
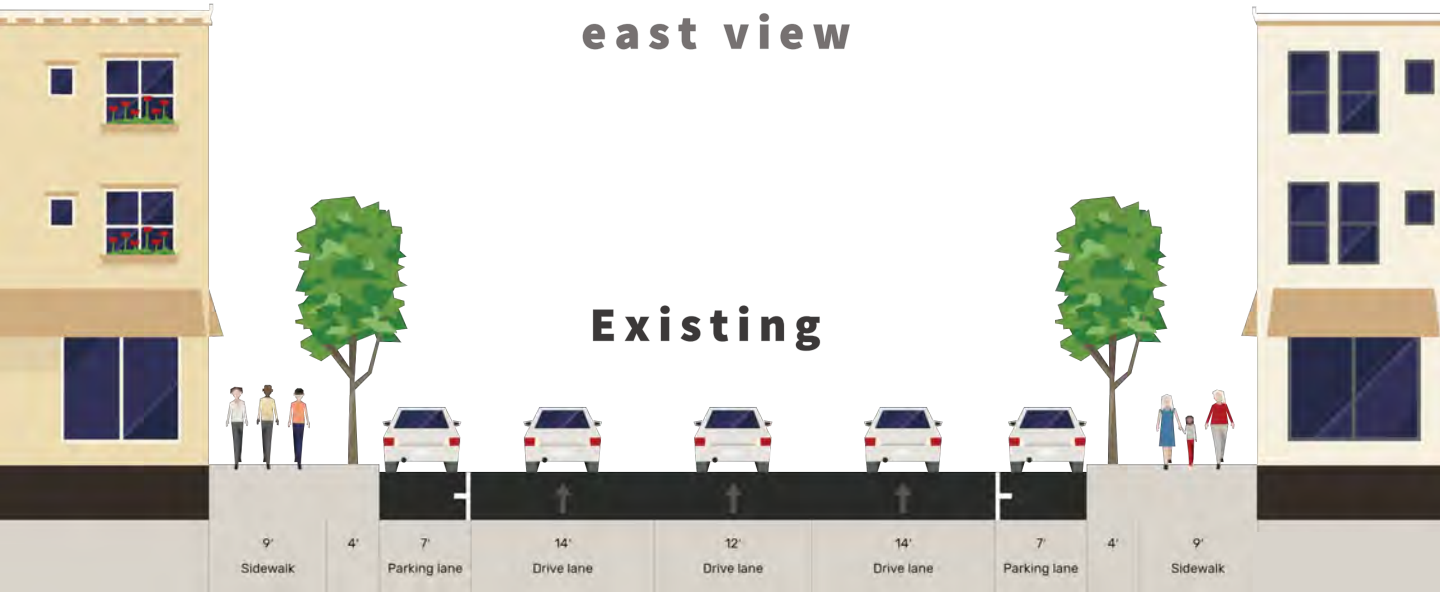


Sponge/Resilient Street. Narrow. Two-Way. Connecting Outdoor Spaces



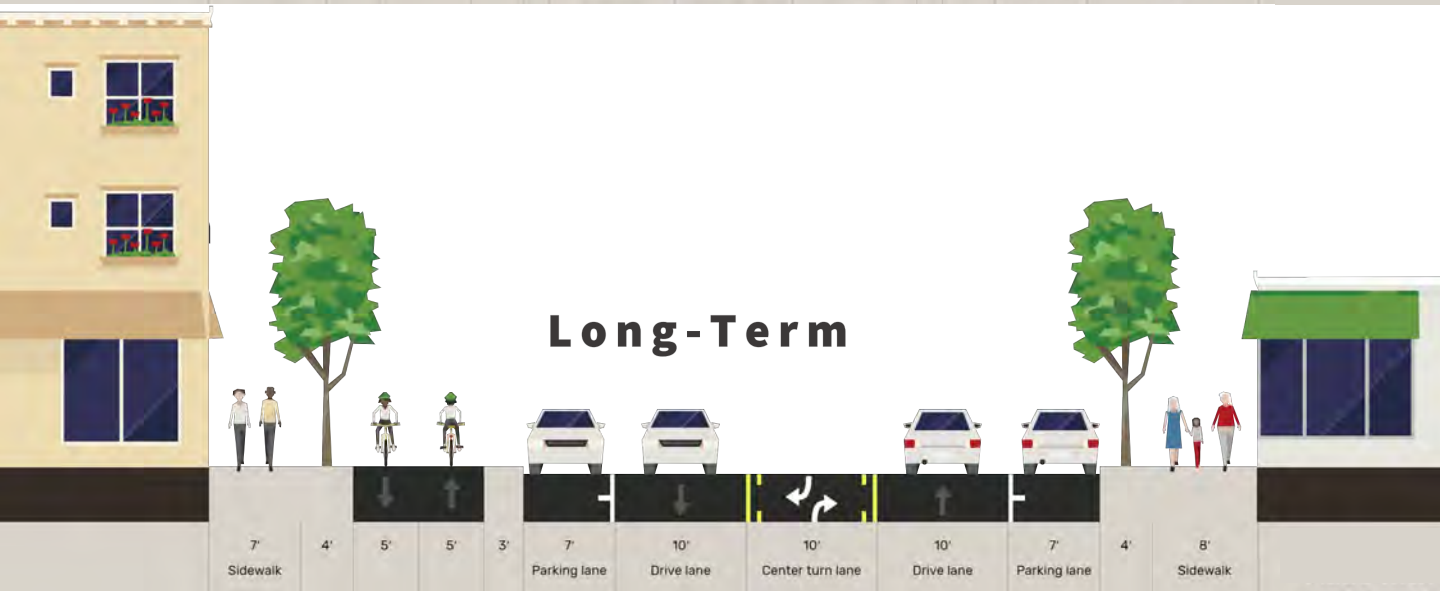
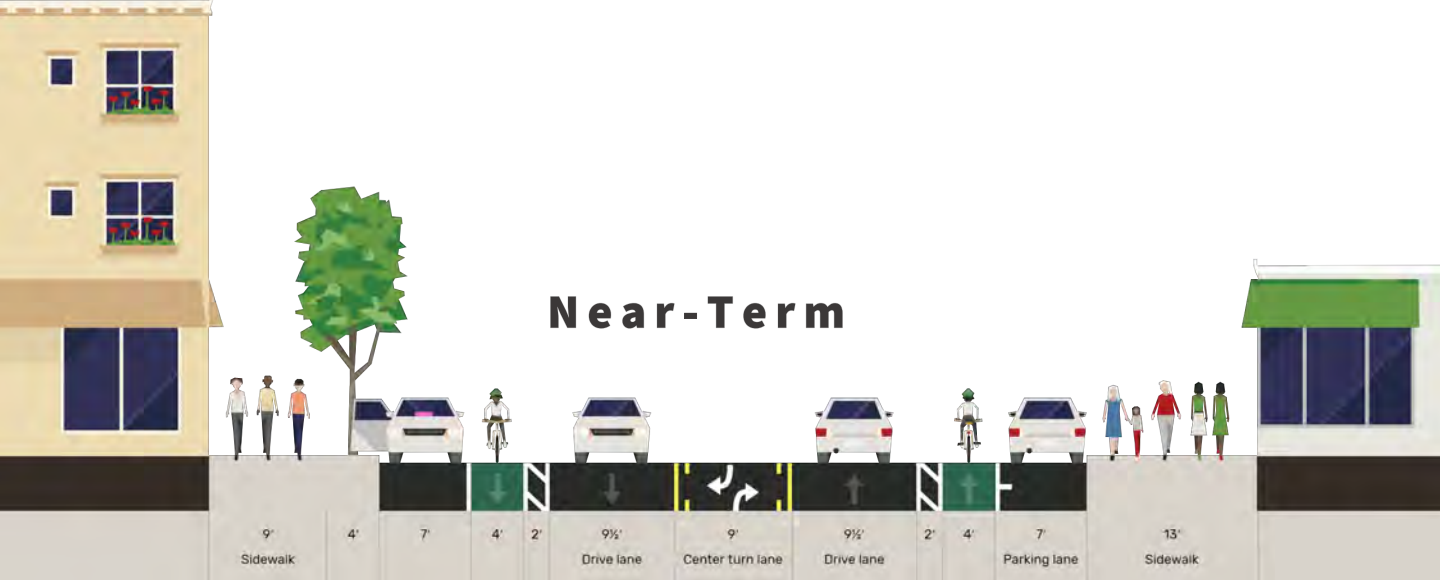
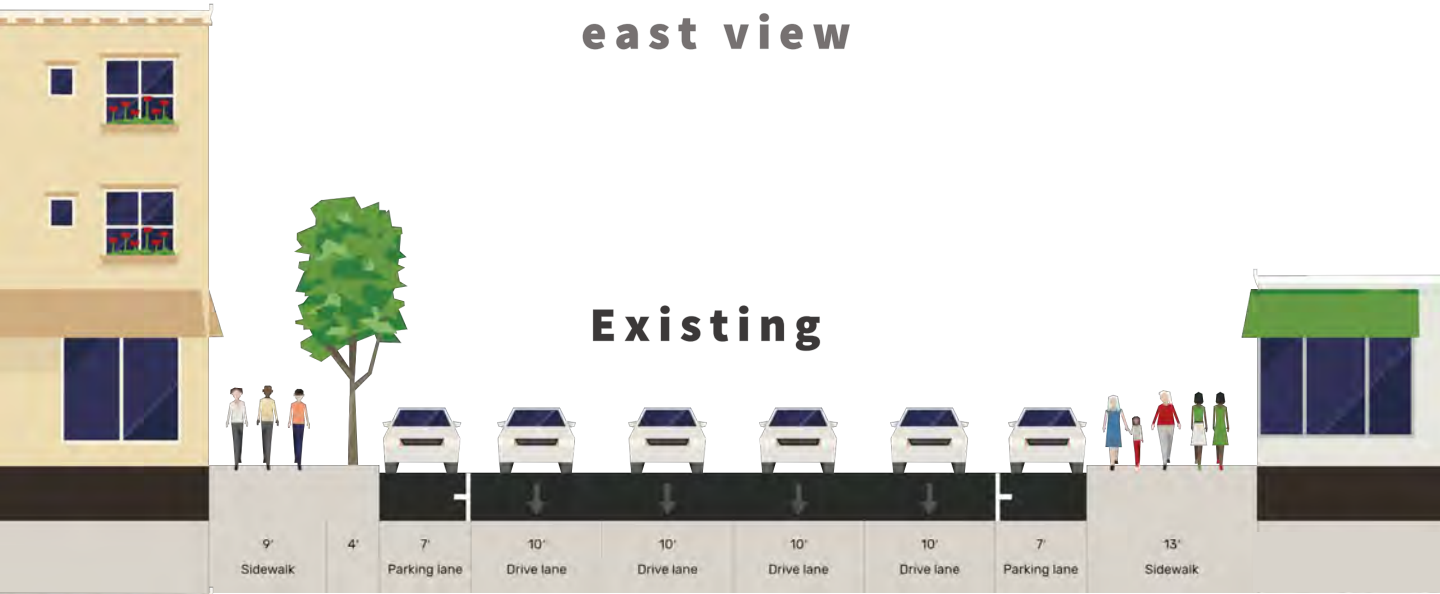
# 3<sup>rd</sup> STREET

## east view



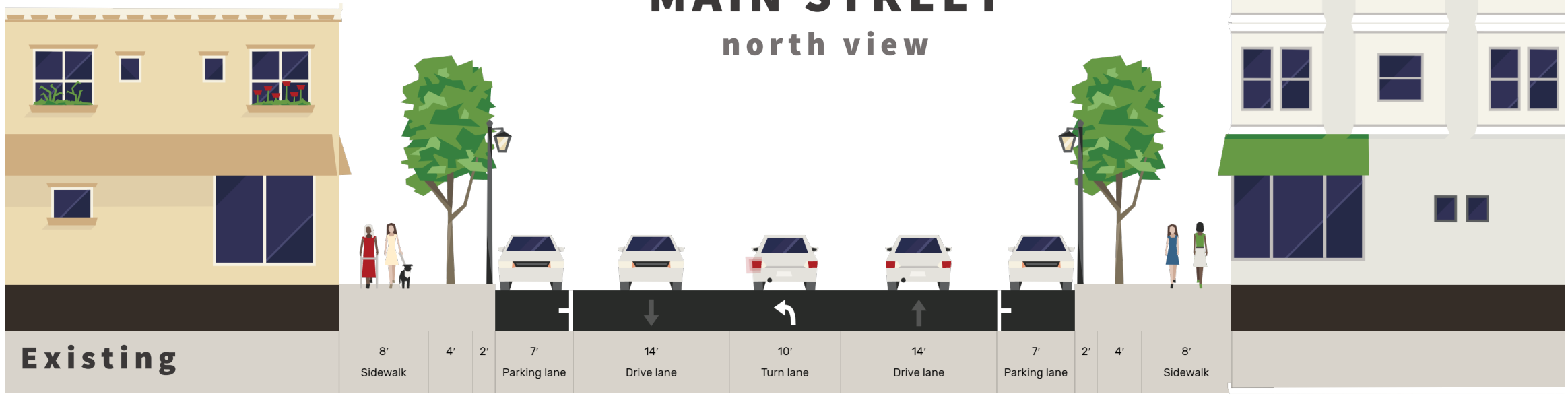
# 4<sup>th</sup> STREET

east view

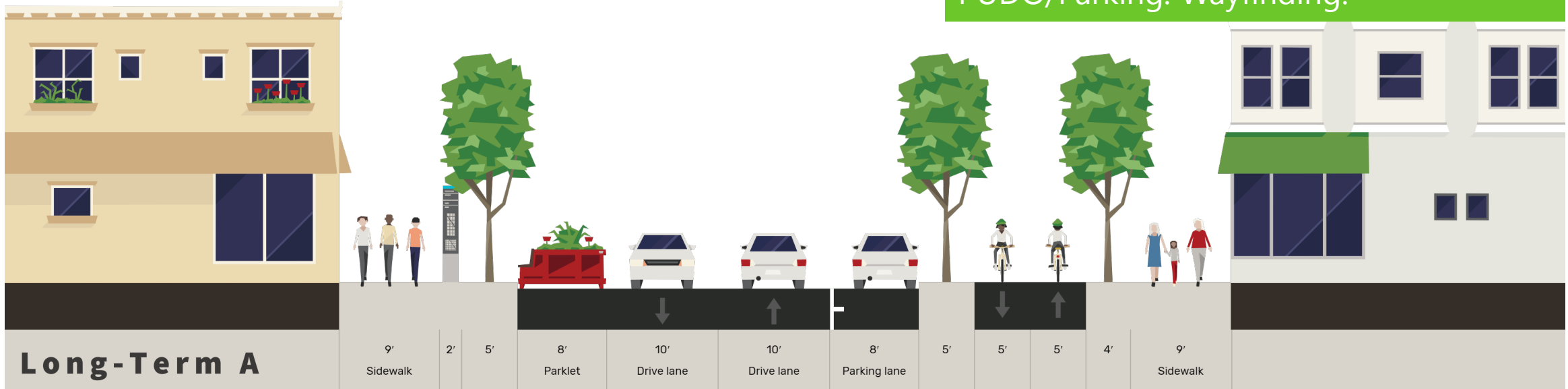


# MAIN STREET

## north view

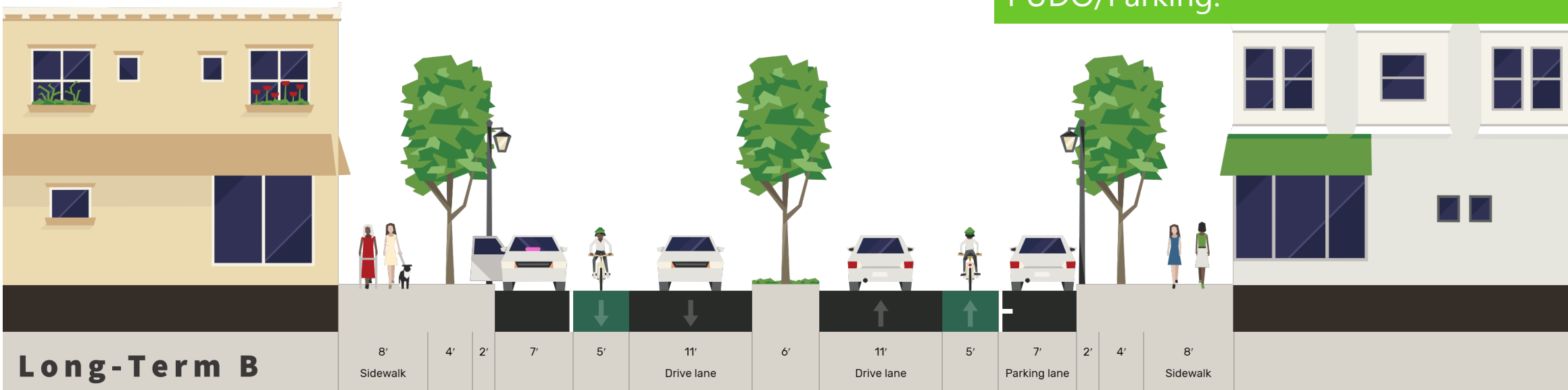
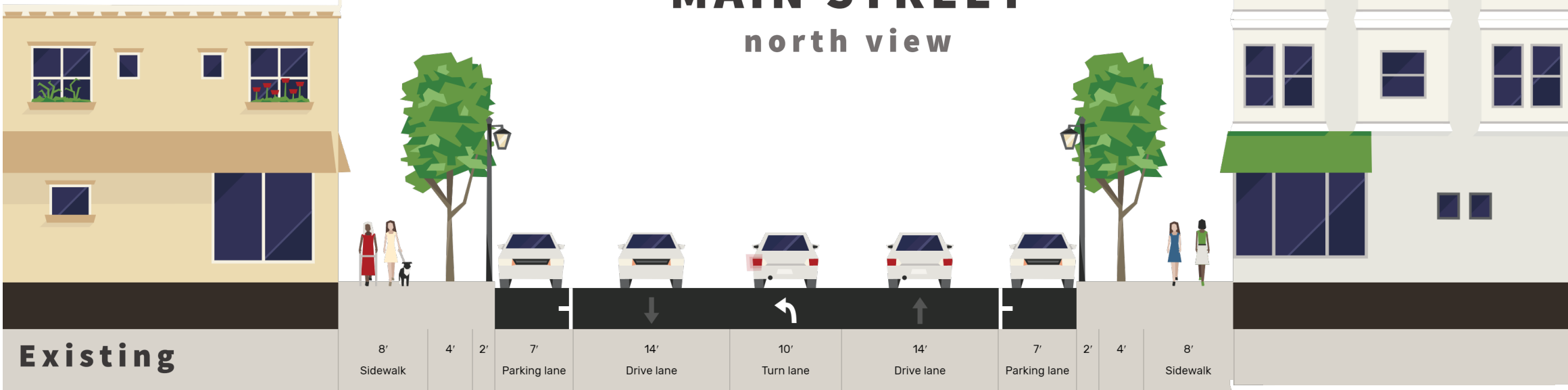


Slow. Commercial. Sidewalk-level Trail.  
PUDO/Parking. Wayfinding.



# MAIN STREET

## north view



Center Median. Bicycle Lanes.  
PUDO/Parking.

Existing

Long-Term B

# HARRISON STREET

north view

**Existing**

7'	4'	2'	7'	14'	12'	14'	7'	2'	4'	7'
Sidewalk			Parking lane	Drive lane	Drive lane	Drive lane	Parking lane			Sidewalk

One-Way. Diagonal Parking. Pedestrian Safety / Crossings.

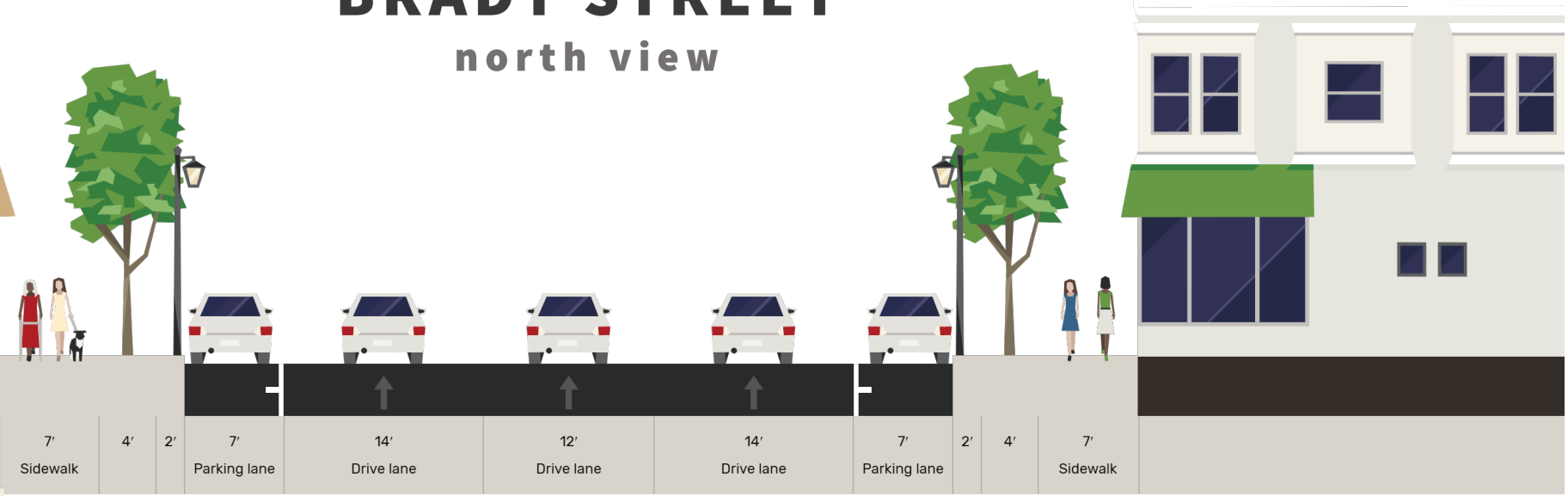
**Long-Term**

8'	4'	2'	15'	11'	11'	15'	2'	4'	8'
Sidewalk			Angled parking	Drive lane	Drive lane	Angled parking			Sidewalk

# BRADY STREET

## north view

**Existing**



One-Way. Diagonal Parking. Pedestrian Safety / Crossings.

**Long-Term**

