

# City of Houston Safer Streets Initiative

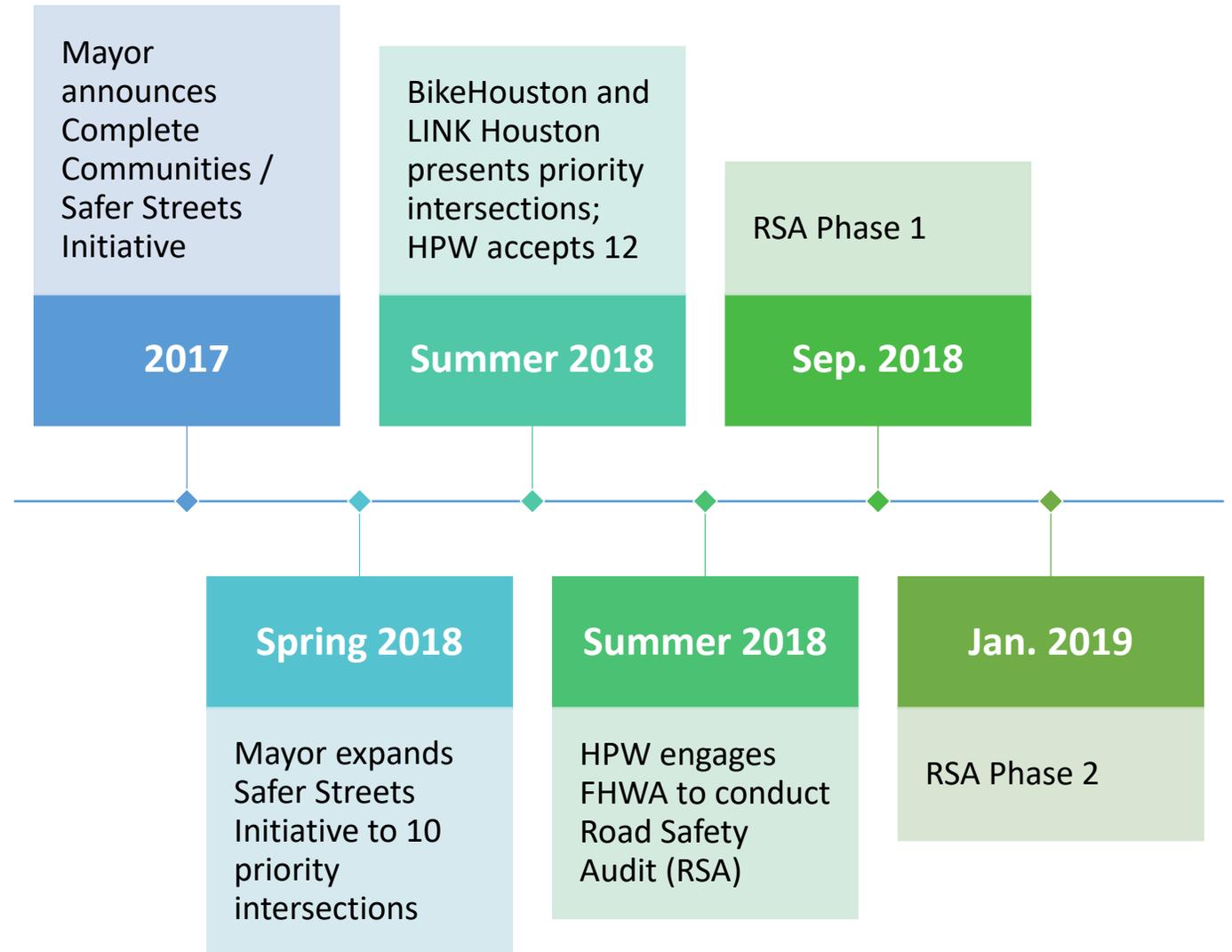
Presenter:

Ian Hlavacek, PE

Supervising Engineer

Houston Public Works

# Background



# Safer Streets for People Walking & Biking

## Priority Intersections

Approved by Mayor Turner  
July 13, 2018

### LINK Houston Crash-based

1. **Fannin & Pierce**
2. **Ranchester & Bellaire**
3. Westheimer & S Dairy Ashford
4. **Long Point & Gessner**
5. Westpark Dr & U.S. 59 South
6. Old Spanish Trail & 288 South
7. **Fondren & West Bellfort**
8. **Bissonnet & Wilcrest**
9. **West & Airline**
10. **Bellaire & S Gessner**

### BikeHouston Members

1. **Sunset & Main & Fannin\***
2. **Shepherd & Allen Pkwy & Kirby**
3. **Taylor & Spring & MKT Trl**
4. **11th St & Nicholson**
5. West 610 & Woodway & Arbor. Trl
6. **Houston & Spring & MKT Trl\***
7. **Hawthorne & Spur 529 & Holman**
8. **Patterson & Washington**
9. Waugh/Heights & Memorial
10. Wesleyan & Westpark/US 59
11. Morningside & Bellaire

### COH PWE Phase 2 Draft

1. Patton & Irvington
2. Renwick & Dashwood
3. Renwick & Elm
4. 11th & Nicholson
5. White Oak & Heights Trail
6. Crawford & Hermann
7. Hawthorne & Bagby
8. Eldridge & Rincon
9. Eldridge & Whittington
10. Townwood & Orem

### Additional refinements needed...

And could include a variety of unbiased data (Census, roadway class, etc) or neighborhood specific data (i.e., Complete Communities, EEDC Built Environment Report, Rice Kinder Gulfton Near-Miss Study, etc).

\* Project already in progress

# Safer Streets for People Walking & Biking

## Priority Intersections

Approved by Mayor Turner  
July 13, 2018

### LINK Houston Crash-based

1. **Fannin & Pierce**
2. **Ranchester & Bellaire**
3. Westheimer & S Dairy Ashford
4. **Long Point & Gessner**
5. Westpark Dr & U.S. 59 South
6. Old Spanish Trail & 288 South
7. **Fondren & West Bellfort**
8. **Bissonnet & Wilcrest**
9. **West & Airline**
10. **Bellaire & S Gessner**

### BikeHouston Members

1. **Sunset & Main & Fannin\***
2. **Shepherd & Allen Pkwy & Kirby**
3. **Taylor & Spring & MKT Trl**
4. **11th St & Nicholson**
5. West 610 & Woodway & Arbor. Trl
6. **Houston & Spring & MKT Trl\***
7. **Hawthorne & Spur 529 & Holman**
8. **Patterson & Washington**
9. Waugh/Heights & Memorial
10. Wesleyan & Westpark/US 59
11. Morningside & Bellaire

### COH PWE Phase 2 Draft

1. Patton & Irvington
2. Renwick & Dashwood
3. Renwick & Elm
4. 11th & Nicholson
5. White Oak & Heights Trail
6. Crawford & Hermann
7. Hawthorne & Bagby
8. Eldridge & Rincon
9. Eldridge & Whittington
10. Townwood & Orem

### Additional refinements needed...

And could include a variety of unbiased data (Census, roadway class, etc) or neighborhood specific data (i.e., Complete Communities, EEDC Built Environment Report, Rice Kinder Gulfton Near-Miss Study, etc).

\* Project already in progress



**West & Airline**



**11th & Nicholson**



**Patterson & Washington**



**Fannin & Pierce**



**Ranchester & Bellaire**



**Bellaire & S. Gessner**





# Road Safety Audit

- A formal safety performance examination of an existing or future road or intersection by an independent, multi-disciplinary RSA team.

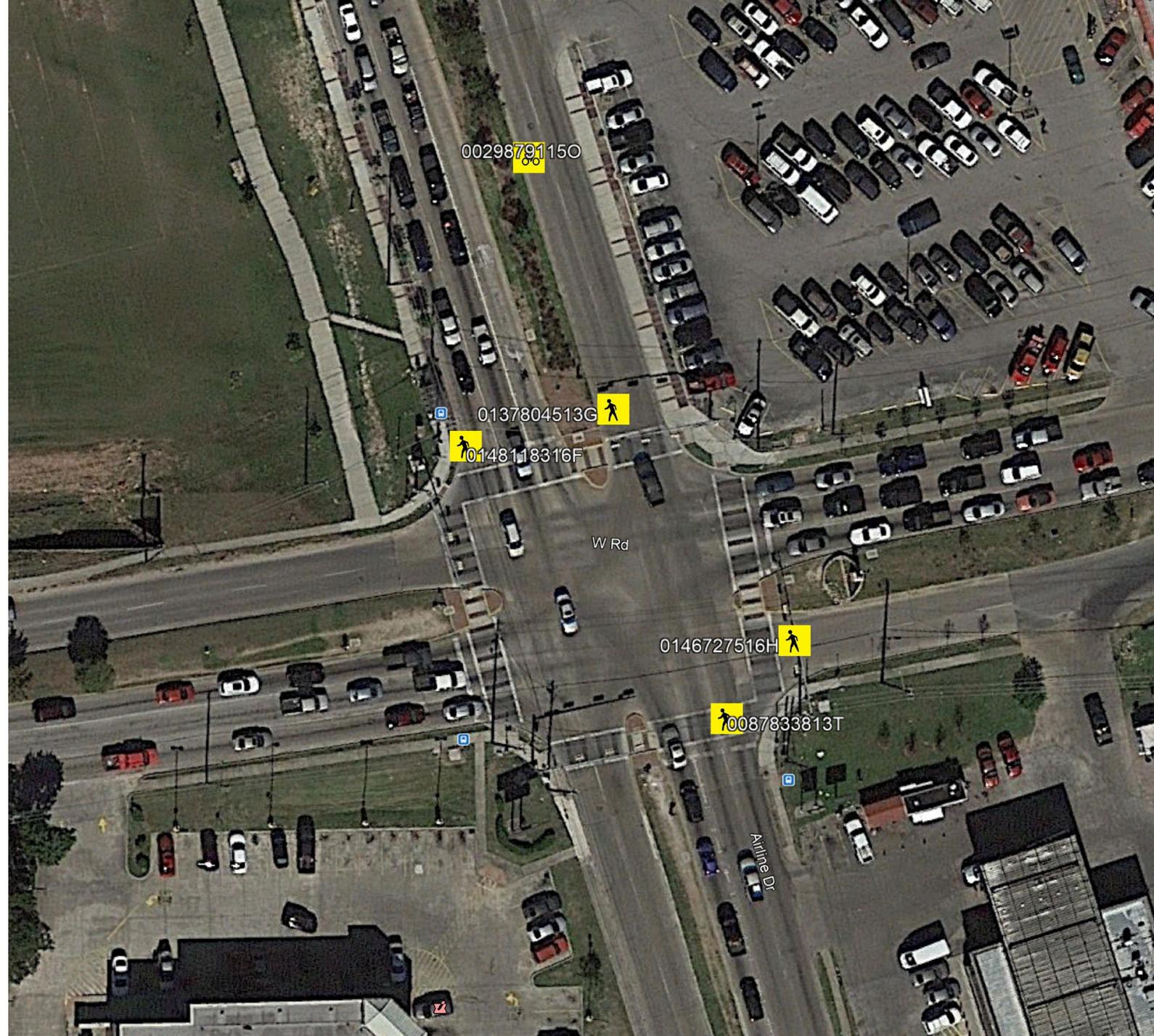
## RSA Team

- Stephen Ratke FHWA
- Keith Sinclair FHWA
- Ian Hlavacek Houston Public Works
- Ahmad Ahadi Houston Public Works
- Capt. Kevin Deese HPD
- Gary Scott Houston Metro
- Jessica Wiggins BikeHouston
- Jonathan Brooks LINK Houston
- Isaiah Mora TxDOT

# West at Airline

- Identified by LINK Houston
- Crashes in 5 years:
  - 4 walking
  - 2 biking
  - 1 pedestrian death

*Note: Crash numbers above include records from all law enforcement agencies; map shows just HPD*



# West at Airline

## Major Recommendations

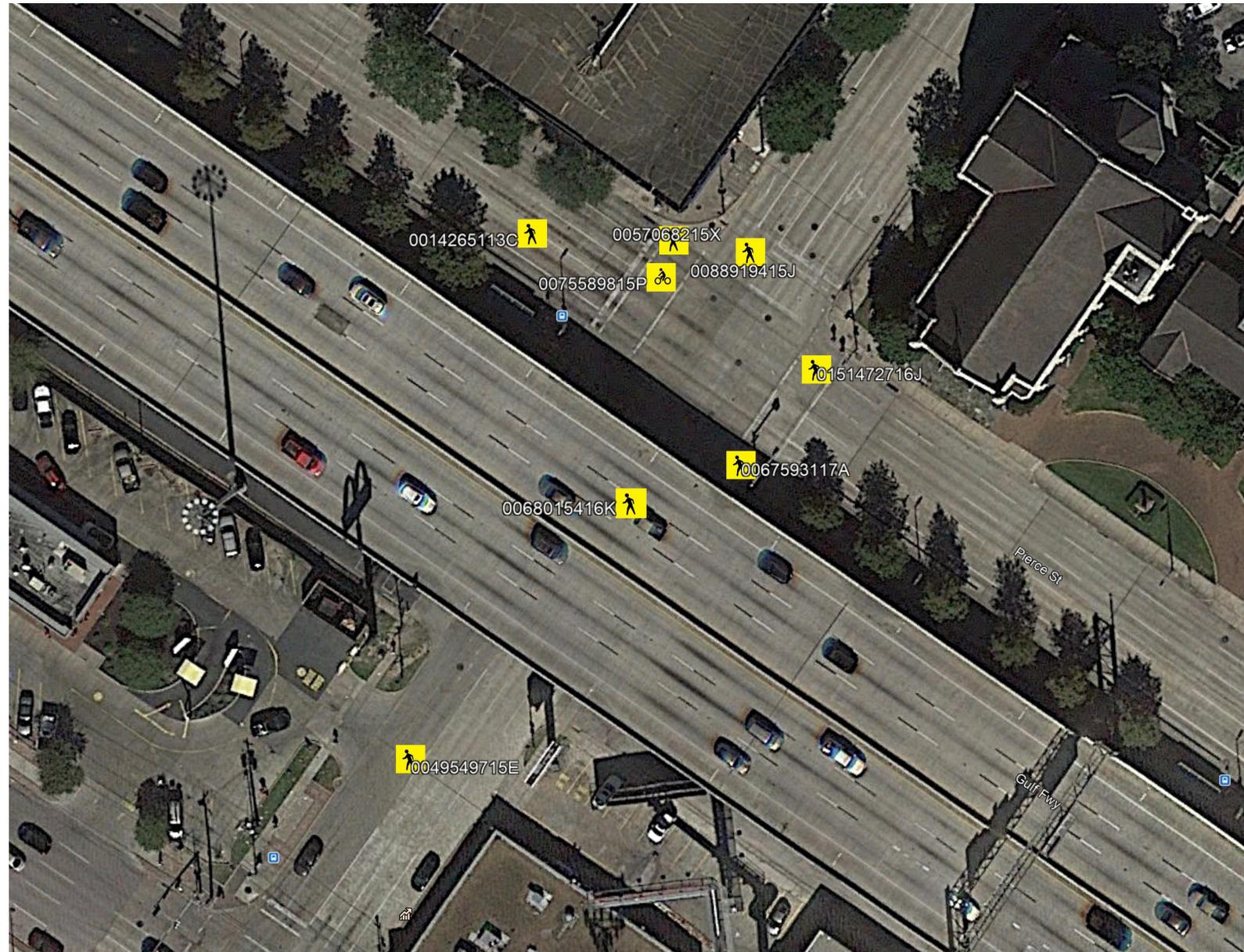
- Pilot and evaluate pedestrian recall phases
- Other signal timing enhancements



# Fannin at Pierce

- Identified by LINK Houston
- Crashes in 5 years:
  - 11 walking
  - 2 biking
  - 2 pedestrian deaths

*Note: Crash numbers above include records from all law enforcement agencies; map shows just HPD*



# Fannin at Pierce

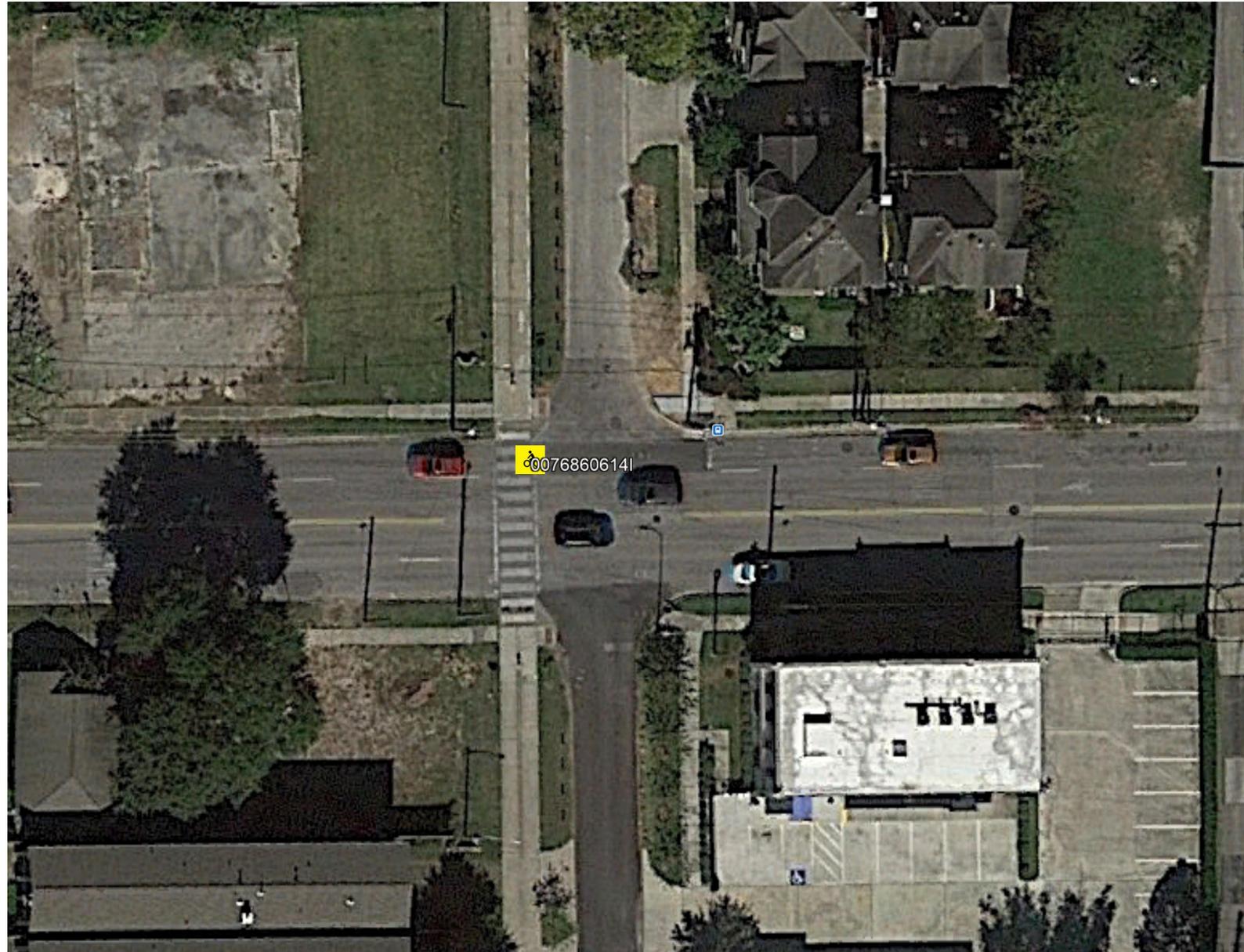
## Major Recommendations

- Provide a **bulb-out** on the southeast corner into Fannin to restrict through movement from the southbound left turn only lane
- **Remove the double left-turn**
- **Repurpose one lane** on Fannin.  
Possibilities:
  - Bicycle facility
  - Wider pedestrian realm/shorter crossing distances
- Study opportunities for **bike facility on Pierce**



# 11<sup>th</sup> at Nicholson

- Identified by BikeHouston
- Crashes in 5 years:
  - 1 biking



# 11<sup>th</sup> at Nicholson

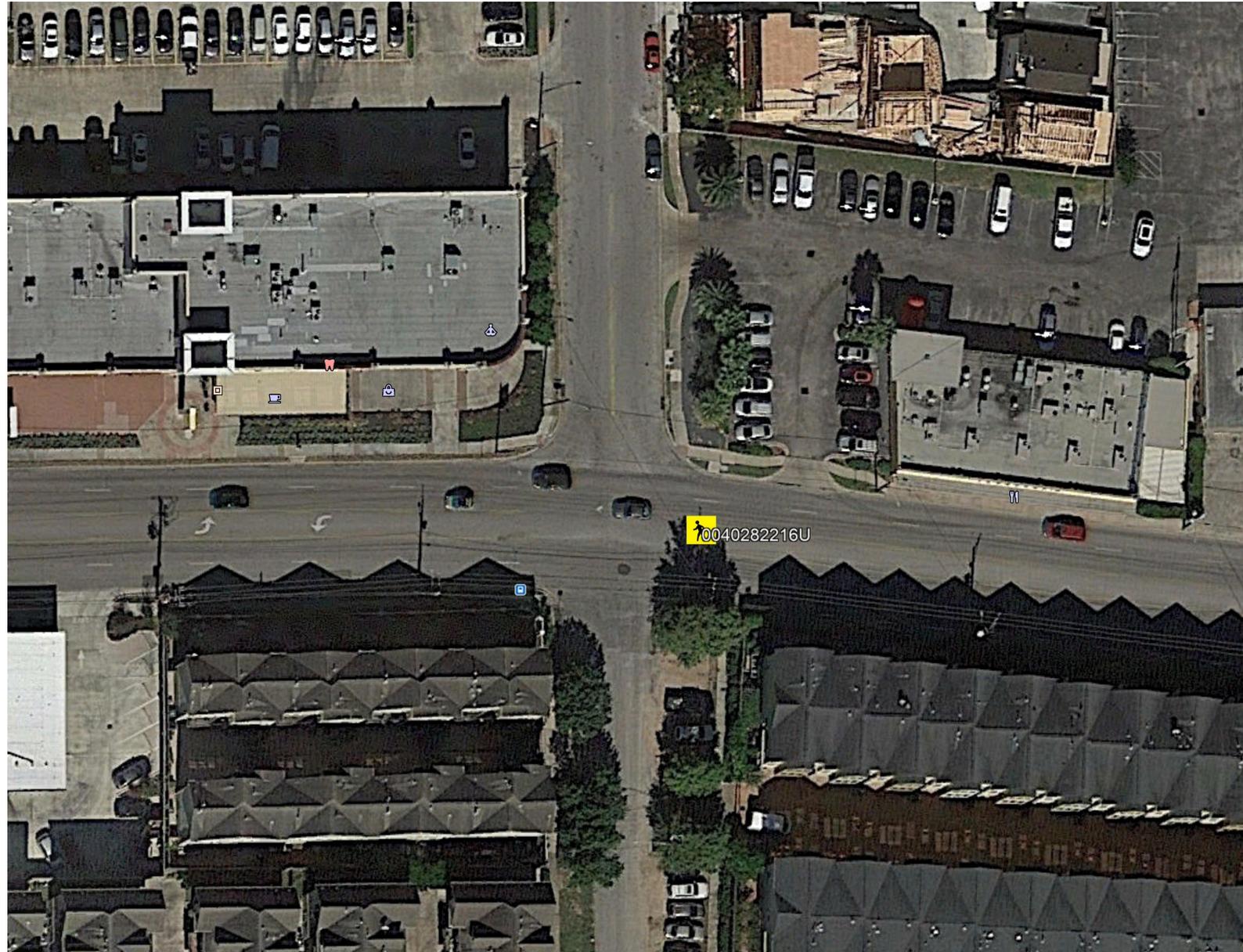
## Major Recommendations

- Improve crossing 11th for bicycles and pedestrians. Options:
  - Preferred option: **4 to 3 lane conversion** with **bike lanes** and with **median refuge** at Nicholson
  - Alternative: add a pedestrian hybrid beacon or toucan crossing.



# Washington at Patterson

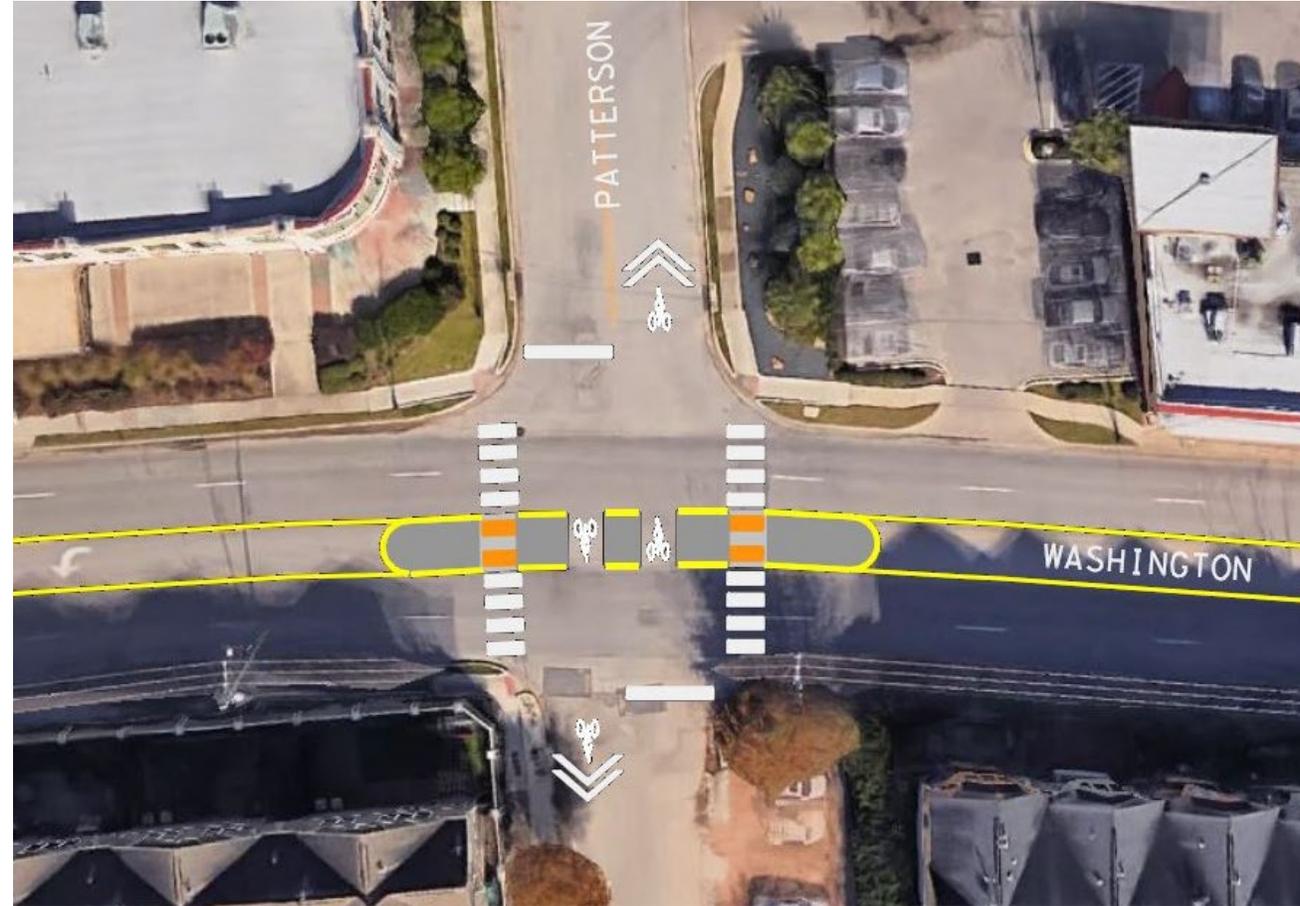
- Identified by BikeHouston
- Crashes in 5 years:
  - 1 walking



# Washington at Patterson

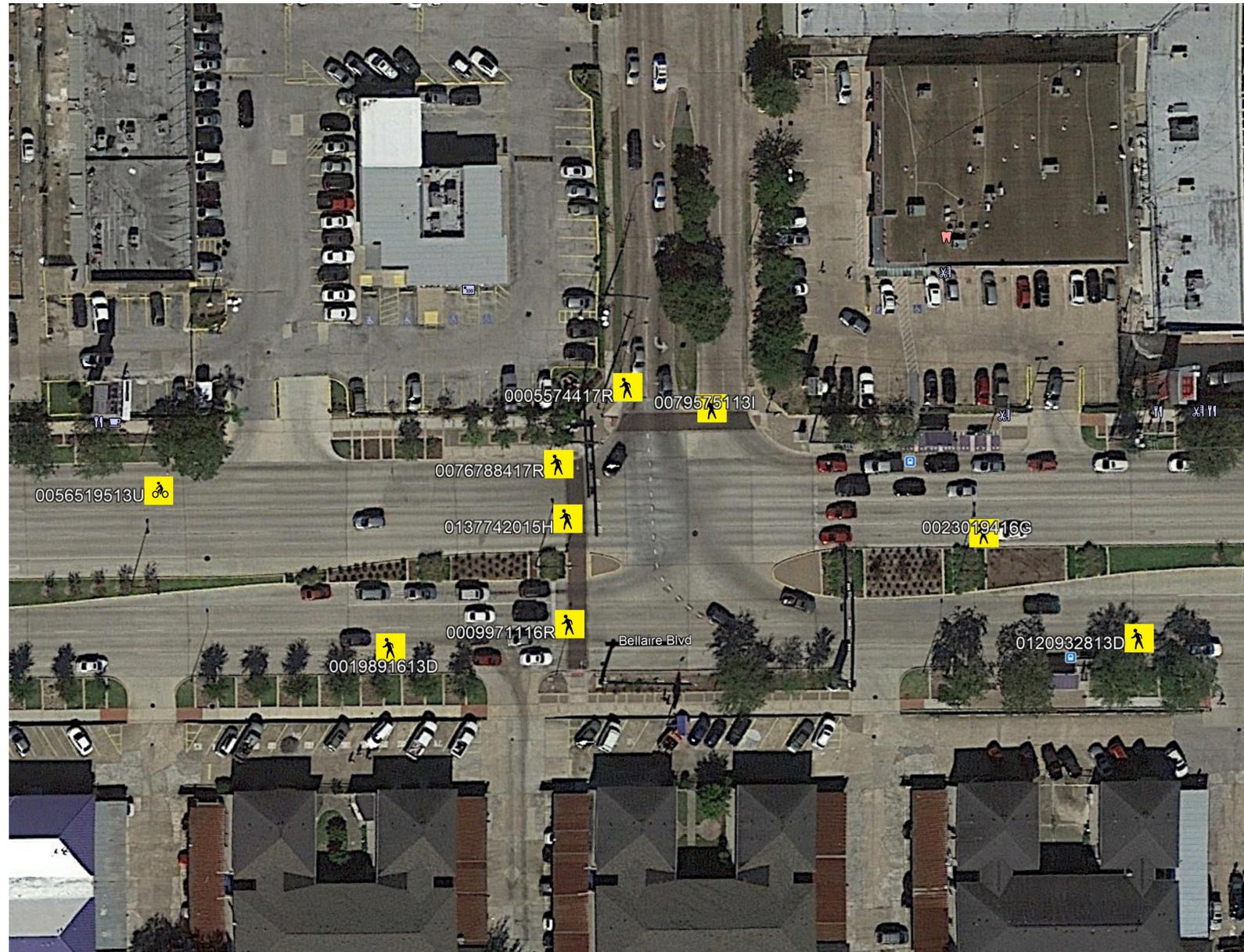
## Major Recommendations

- Provide a **median refuge** for pedestrians and bicyclists crossing Washington.
- Consider ways to reduce the width of Patterson north of Washington to **reduce turning speeds** and **improve the bicycle network**.



# Bellaire at Rancheater

- Identified by LINK Houston
- Crashes in 5 years:
  - 10 walking
  - 1 biking
  - 1 pedestrian death



*Note: Crash numbers above include records from all law enforcement agencies; map shows just HPD*

# Bellaire at Ranchester

## Major Recommendations

- Signal timing for pedestrians
  - Add **leading pedestrian interval** across Ranchester to increase visibility around traffic signal controller box
  - Add **pedestrian phase recall** across Ranchester
  - Increasing crossing time to enable **full crossing of Bellaire** in one cycle
- **Relocate traffic signal controller box** to improve visibility
- Repurpose 1 lane of northbound Ranchester to a **dedicated bike facility**



# Bellaire at Gessner

- Identified by LINK Houston
- Crashes in 5 years:
  - 6 walking
  - 1 biking
  - 1 pedestrian death

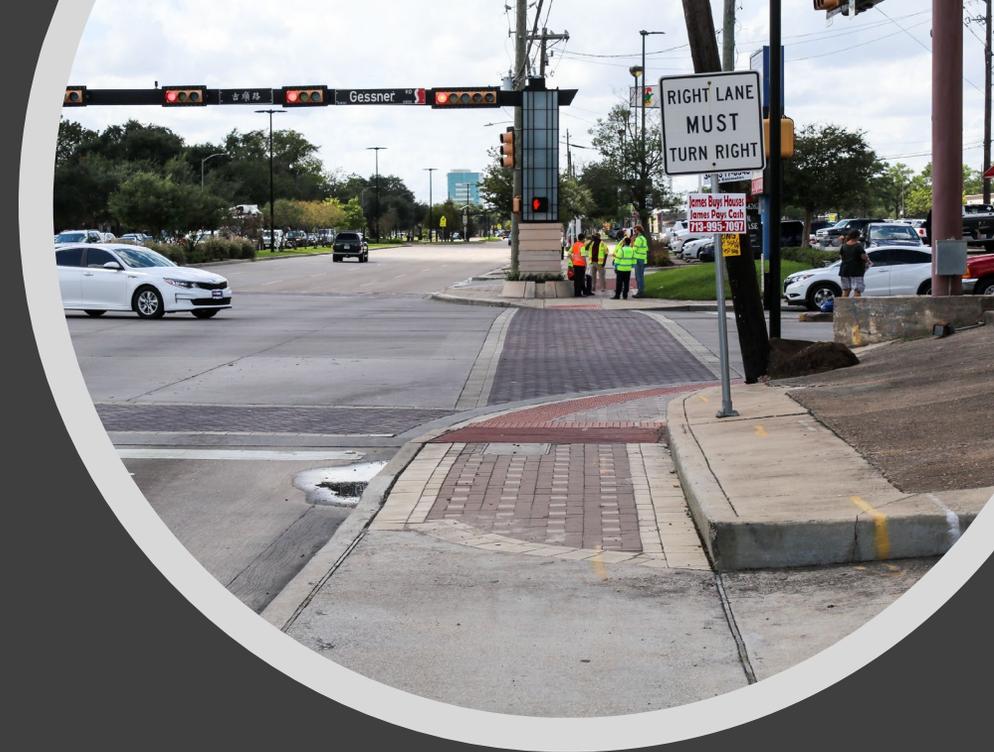
*Note: Crash numbers above include records from all law enforcement agencies; map shows just HPD*



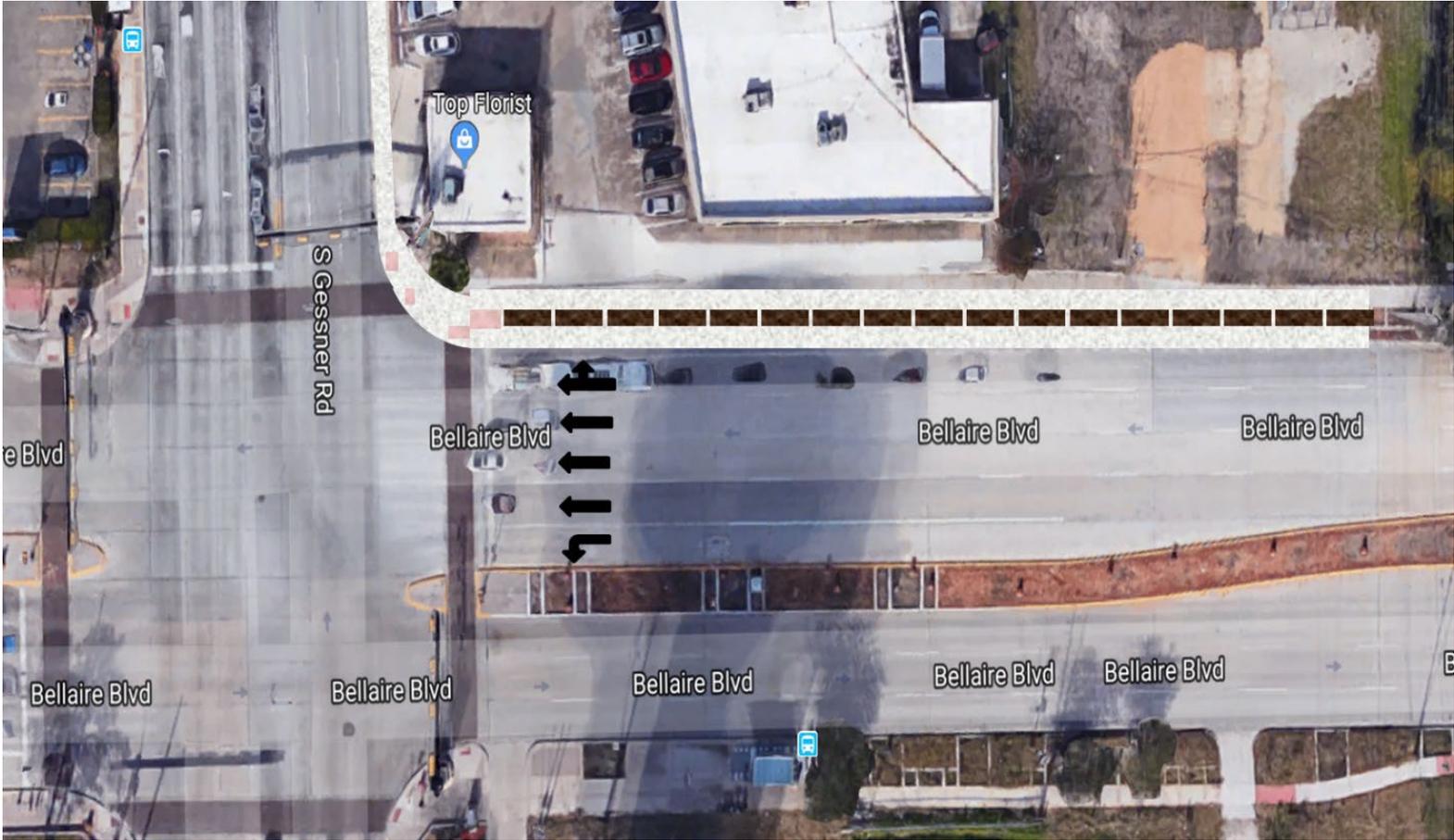
# Bellaire at Gessner

## Major Recommendations

- Provide **leading pedestrian interval**
- Increase crossing time to enable **full crossing of Bellaire** in one cycle.
- **Remove dedicated westbound right turn lane** and reconstruct northeast corner to include wider sidewalks



# Bellaire at Gessner



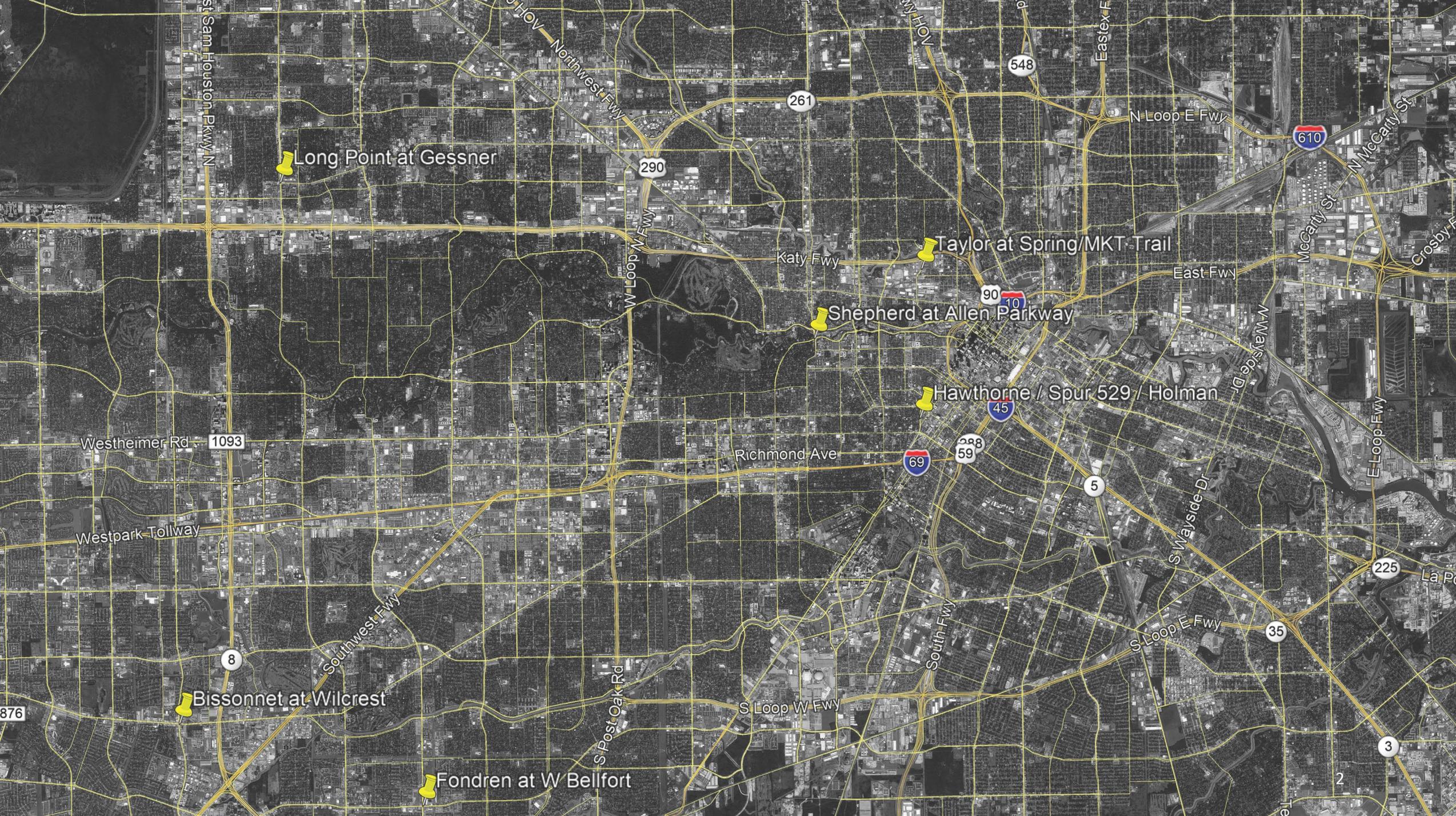
# Next Steps – RSA Phase 1

- Several maintenance items already complete:
  - Signage/pavement marking maintenance (e.g. crosswalks on Bellaire)
  - Signal timing modifications
  - Street light repairs
  - Vegetation trimming
- 11<sup>th</sup> / Nicholson – Identified for Bike Plan Implementation
- Patterson / Washington – Identified for Bike Plan Implementation

Additional funding will be sought for other capital projects.

# Next 6

- Long Point & Gessner
- Fondren & West Bellfort
- Bissonnet & Wilcrest
- Shepherd & Allen Pkwy & Kirby
- Taylor & Spring & MKT Trail
- Hawthorne & Spur 527 & Holman



Long Point at Gessner

Taylor at Spring/MKT Trail

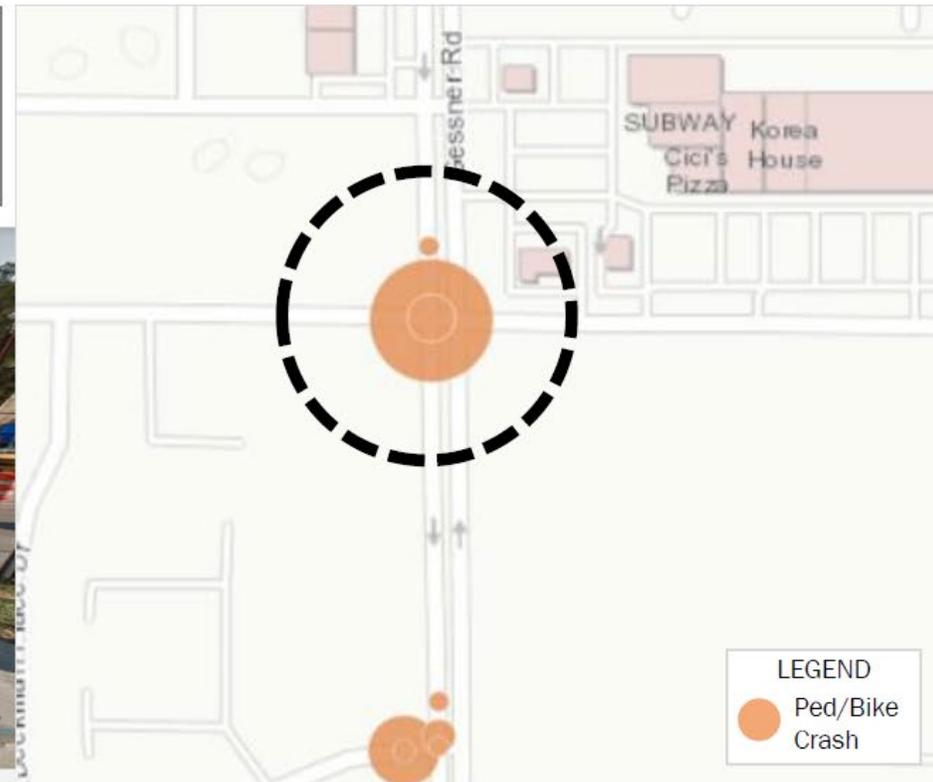
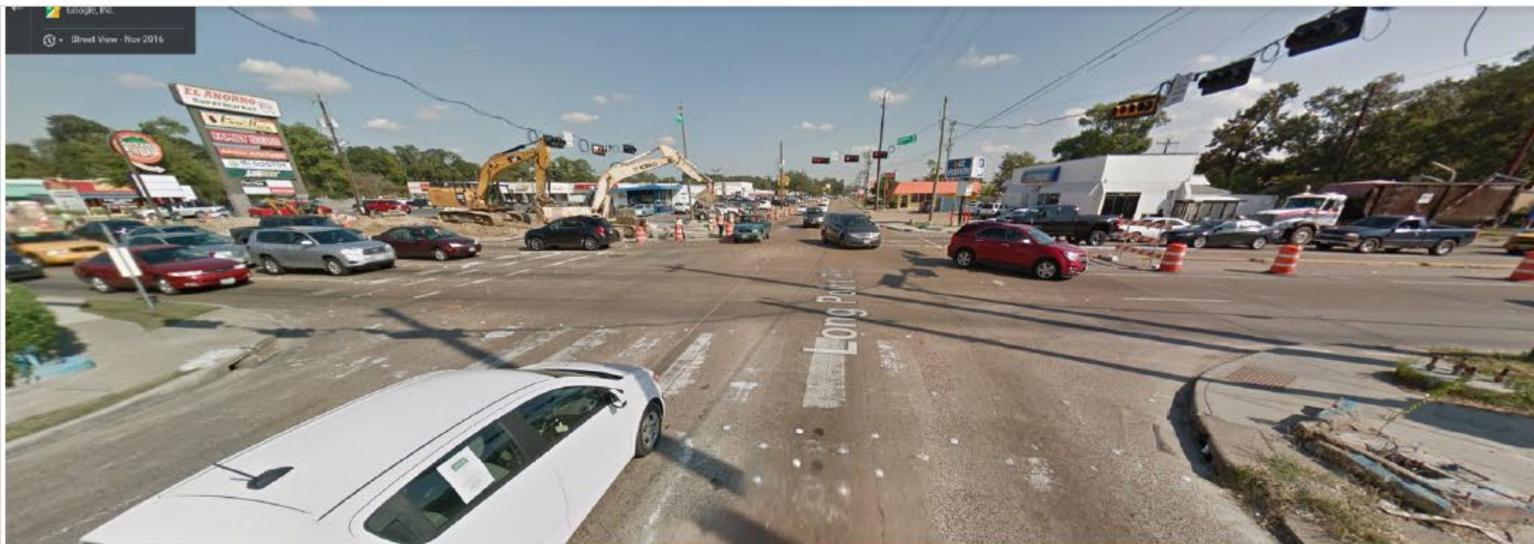
Shepherd at Allen Parkway

Hawthorne / Spur 529 / Holman

Bissonnet at Wilcrest

Fondren at W Bellfort

# Safer Streets Priority Intersections for People Walking & Biking



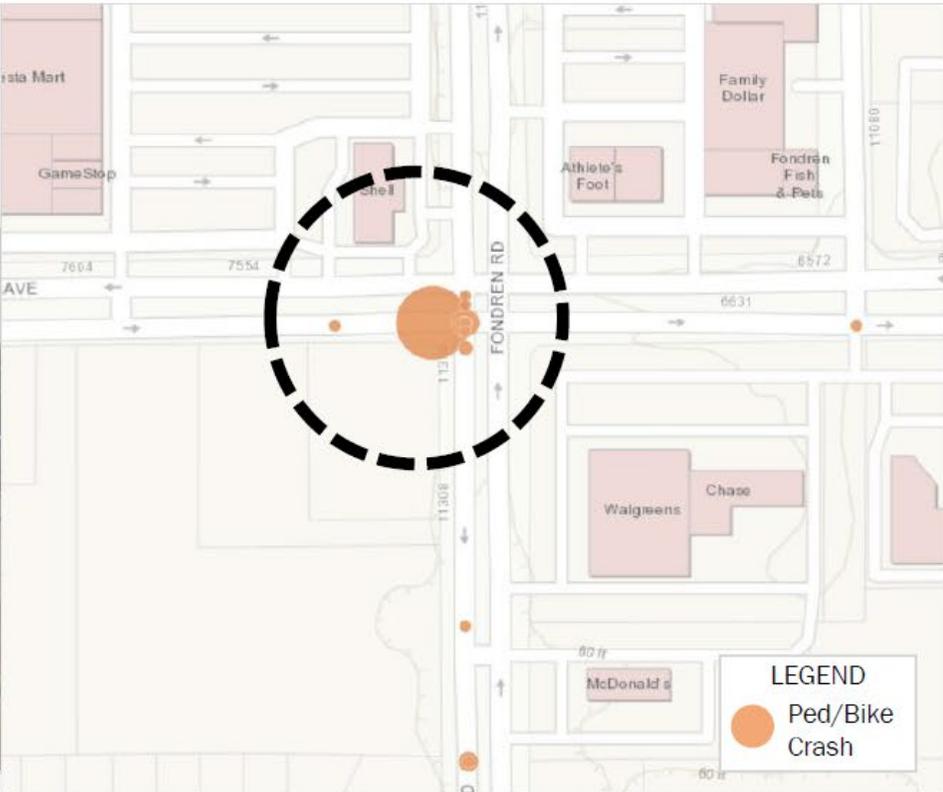
Neighborhood .....	Spring Branch West
# of crashes .....	4 (4 walking, 0 biking) <b>1 ped death</b>
Value of prevention .....	\$14.7m
# population in tract <sup>a</sup> .....	4,324 48201522202
% HHs in poverty <sup>a</sup> .....	38%
% HHs with no vehicle <sup>a</sup> .....	10%
# jobs in proximity <sup>b</sup> .....	431
# schools within ¼-mile <sup>c</sup> .....	2
# transit stops adjacent <sup>d</sup> .....	2 (303 weekday boardings/alightings)

**4** of 10

**LONG POINT &  
GESSNER**

Sources: A. [H-GAC Demographic Data Explorer](#), B. [H-GAC Activity-Connectivity Explorer](#), C. Google Maps, D. Houston METRO

# Safer Streets Priority Intersections for People Walking & Biking



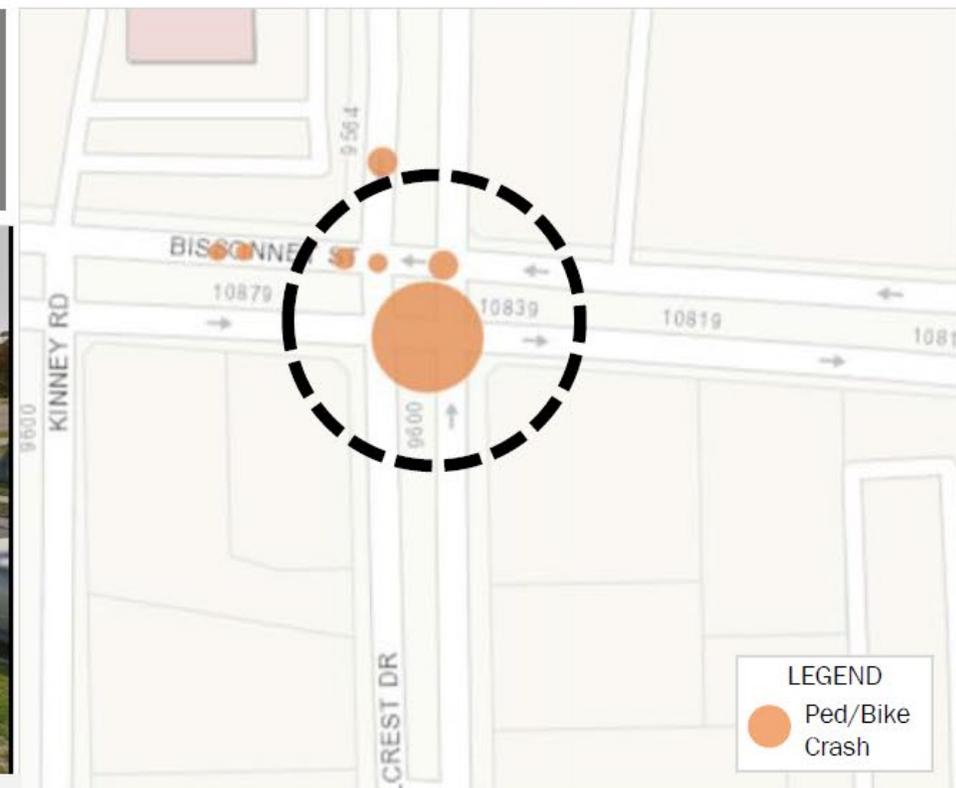
Neighborhood .....	Greater Fondren Southwest
# of crashes .....	12 (11 walking, 1 biking) <b>1 ped death</b>
Value of prevention .....	\$14.3m
# population in tract <sup>a</sup> .....	5,142 48201423302
% HHs in poverty <sup>a</sup> .....	20%
% HHs with no vehicle <sup>a</sup> .....	14%
# jobs in proximity <sup>b</sup> .....	791
# schools within ¼-mile <sup>c</sup> .....	2
# transit stops adjacent <sup>d</sup> .....	3 (504 weekday boardings/alightings)

**7** of 10

**FONDREN &  
WEST BELLFORT**

Sources: A. [H-GAC Demographic Data Explorer](#), B. [H-GAC Activity-Connectivity Explorer](#), C. Google Maps, D. Houston METRO

# Safer Streets Priority Intersections for People Walking & Biking



Neighborhood	Alief
# of crashes	8 (8 walking, 0 biking) <b>1 ped death</b>
Value of prevention	\$13.0m
# population in tract <sup>a</sup>	2,780 48201453300
% HHs in poverty <sup>a</sup>	36%
% HHs with no vehicle <sup>a</sup>	10%
# jobs in proximity <sup>b</sup>	720
# schools within ¼-mile <sup>c</sup>	3
# transit stops adjacent <sup>d</sup>	4 (150 weekday boardings/alightings)

**8** of 10

**BISSONNET & WILCREST**

Sources: A. [H-GAC Demographic Data Explorer](#), B. [H-GAC Activity-Connectivity Explorer](#), C. [Google Maps](#), D. [Houston METRO](#)

# Shepherd/Allen Pkwy/Kirby



# Spring/Taylor/MKT Trail



# Hawthorne/Holman/Spur



# Next Steps – RSA Phase 2

## Kick-Off Meeting:

- Monday Jan 28 at 1PM
- Transtar (6922 Katy Rd), Room 216

## Close-Out Meeting:

- Friday February 1 at 1 PM
- Transtar, Room 120A

Please RSVP to [ian.hlavacek@houstontx.gov](mailto:ian.hlavacek@houstontx.gov)