

City of Houston Safer Streets Initiative

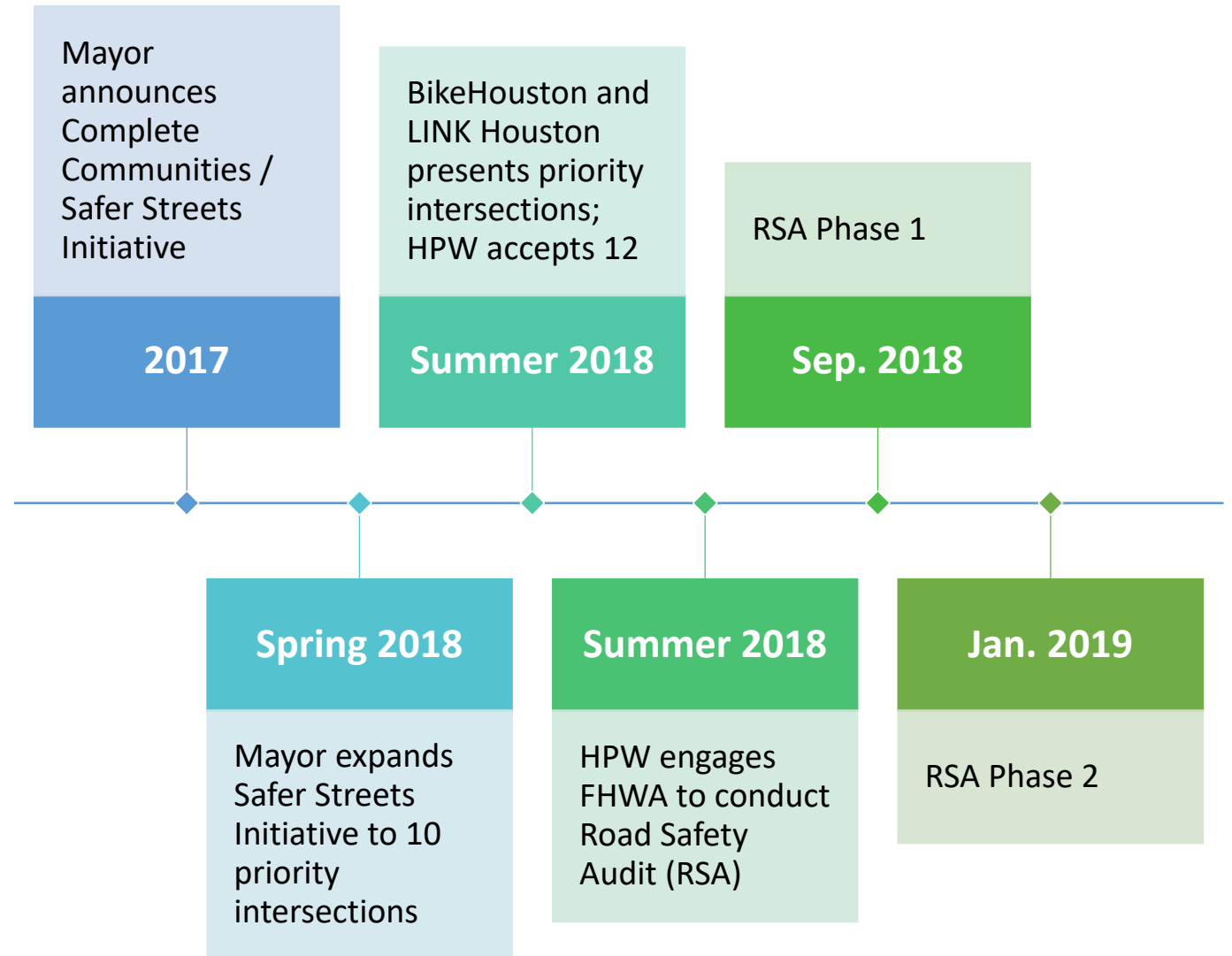
Presenter:

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

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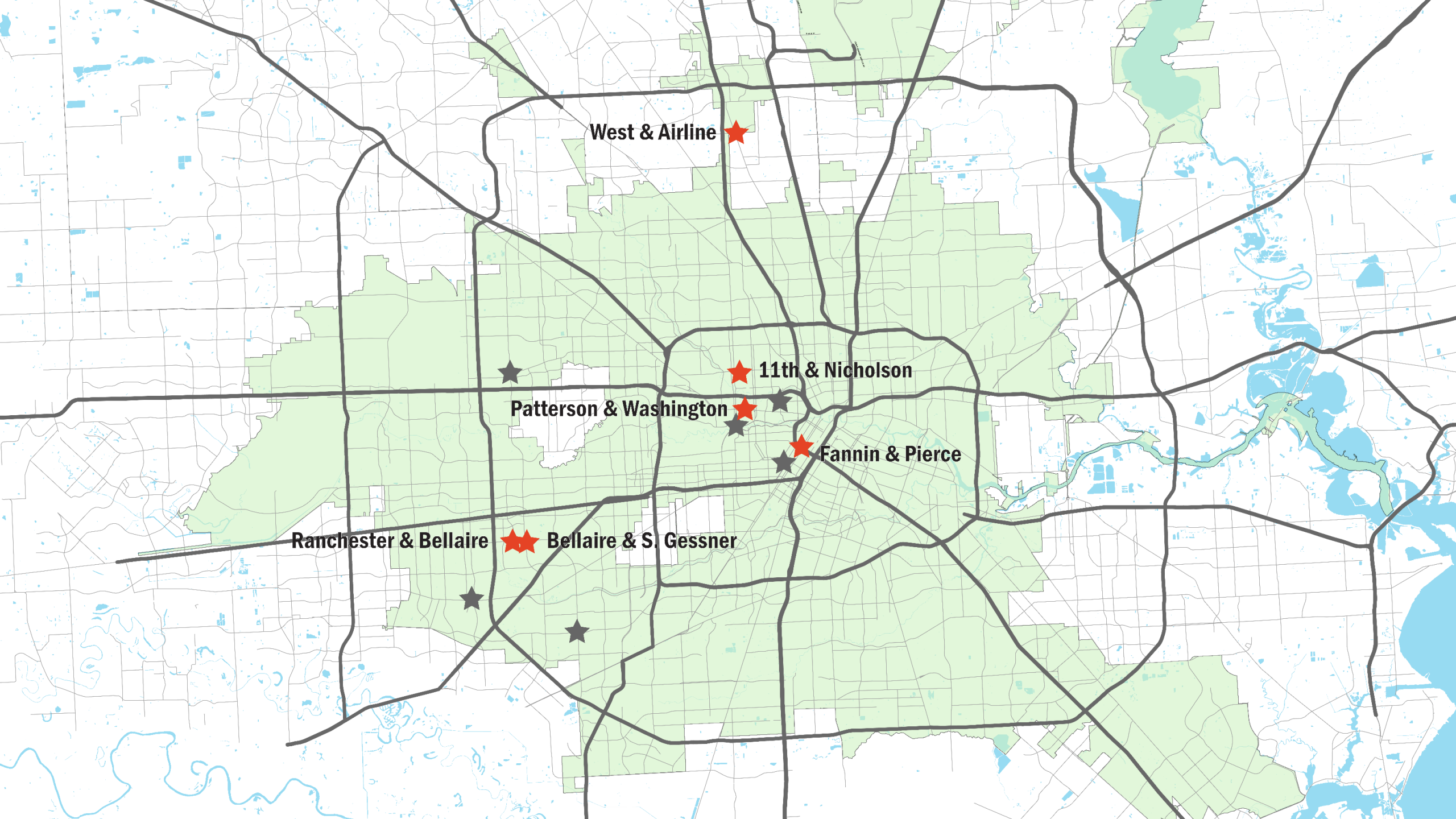
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West & Airline



11th & Nicholson



Patterson & Washington



Fannin & Pierce



Ranchester & Bellaire



Bellaire & S. Gessner



A group of people are gathered around a large conference table in a meeting room. The room has blue walls with several framed pictures of buildings. On the table, there are laptops, papers, and a red thermos. A large circular graphic is overlaid on the left side of the image, containing the title and a definition. The people are engaged in a discussion, with some looking at laptops and others looking towards the center of the table.

Road Safety Audit

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

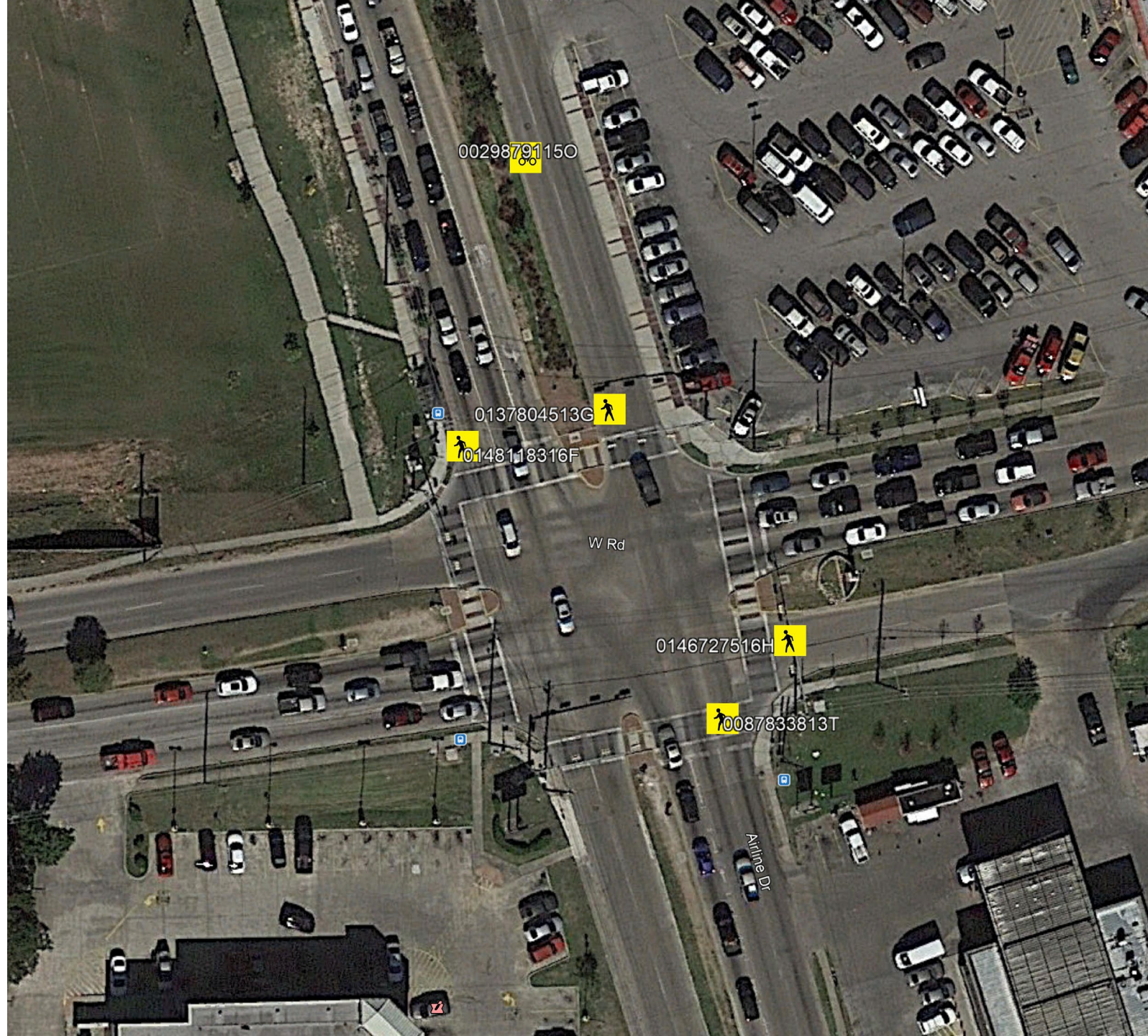
RSA Team

- 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

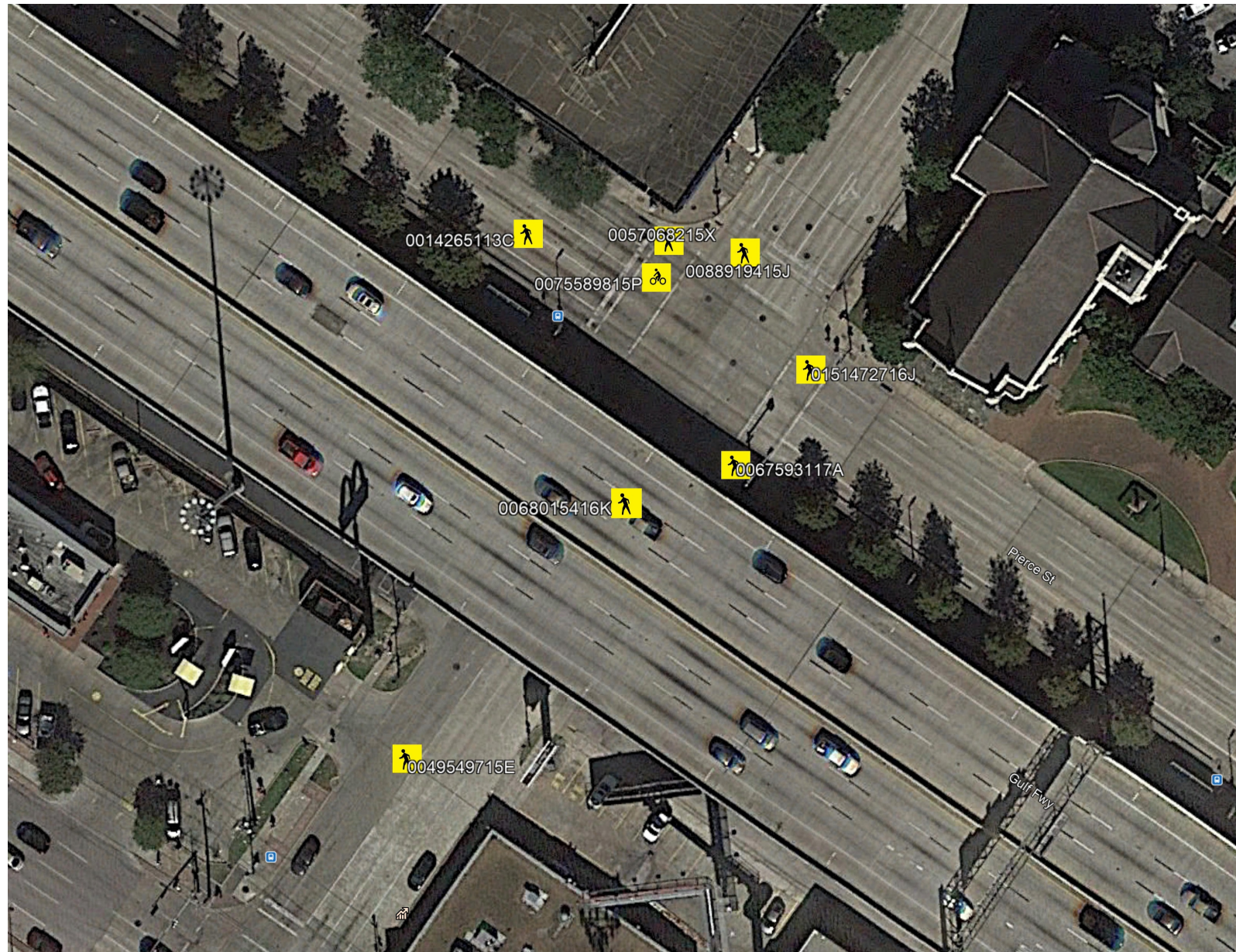
- Pilot and evaluate pedestrian recall phases
- Other signal timing enhancements



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

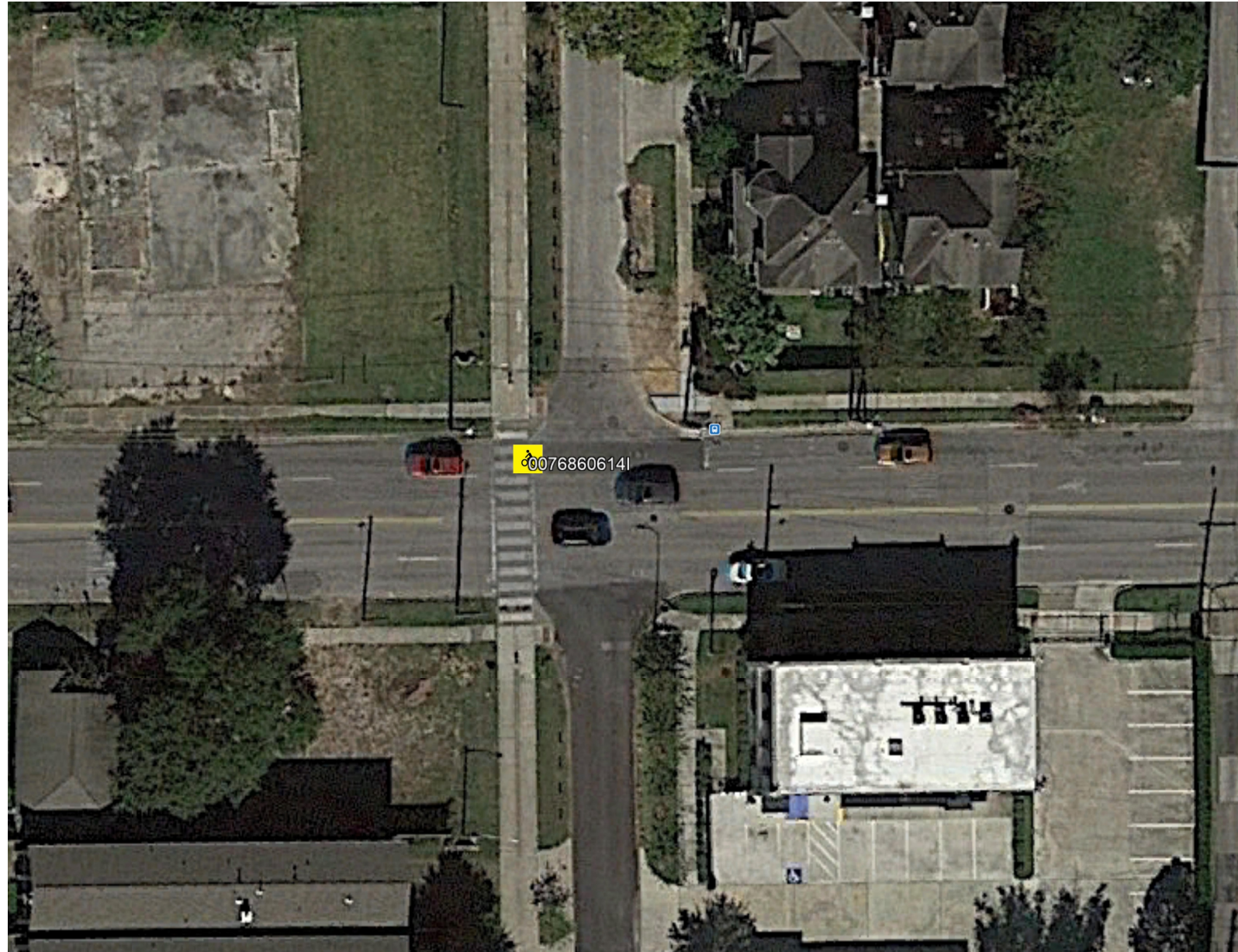
Major Recommendations

- 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**



11th at Nicholson

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



11th at Nicholson

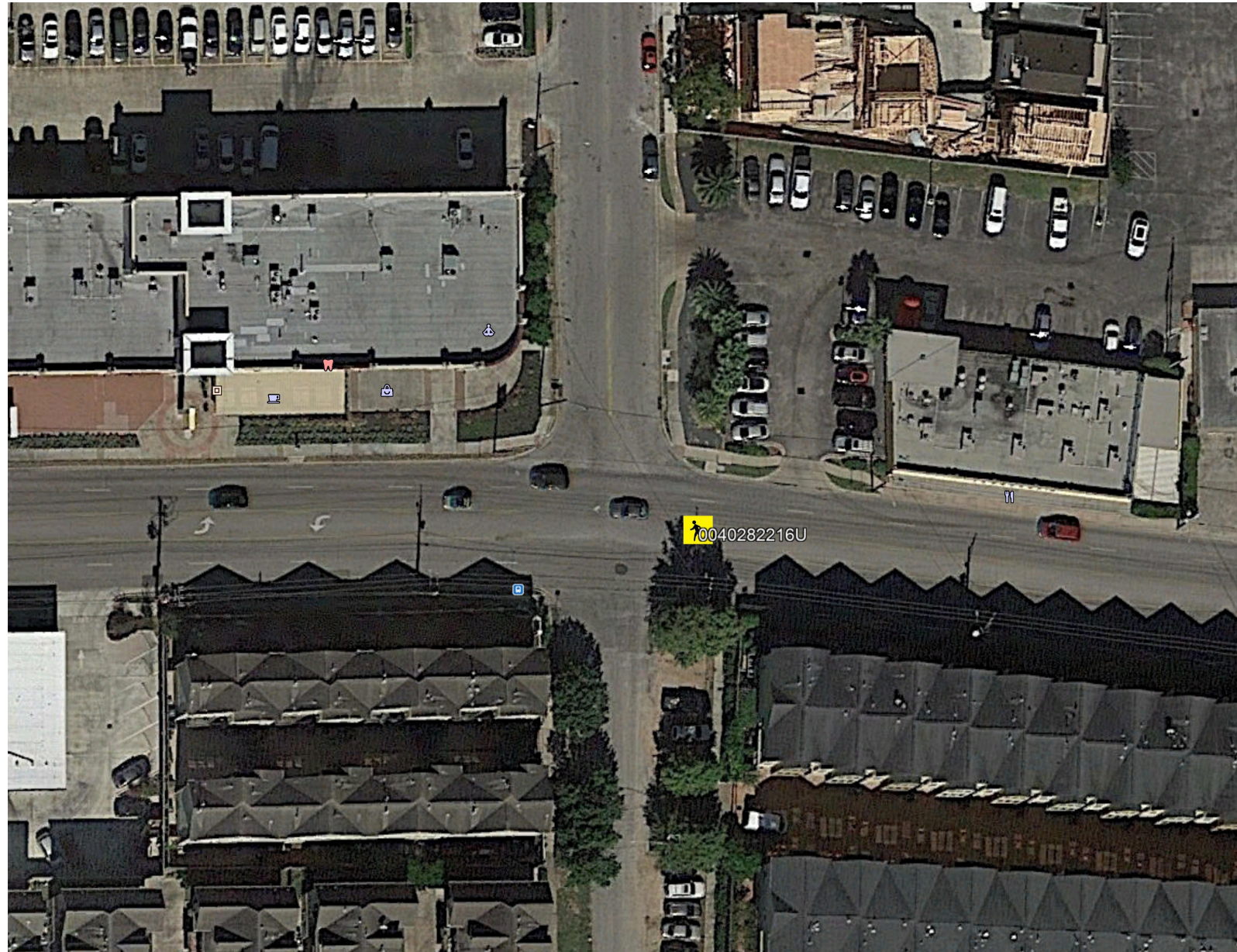
Major Recommendations

- 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

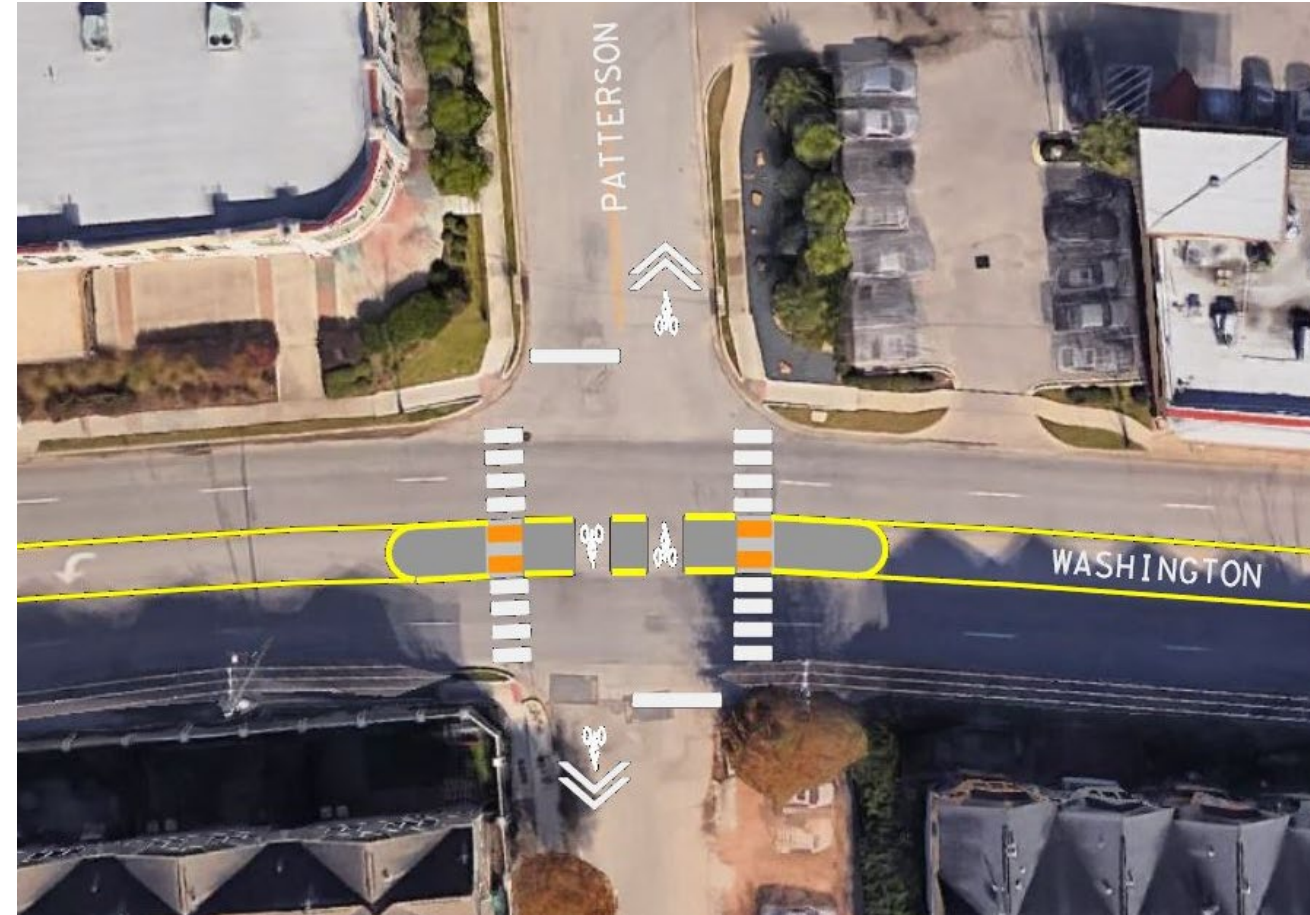
- Identified by BikeHouston
- Crashes in 5 years:
 - 1 walking



Washington at Patterson

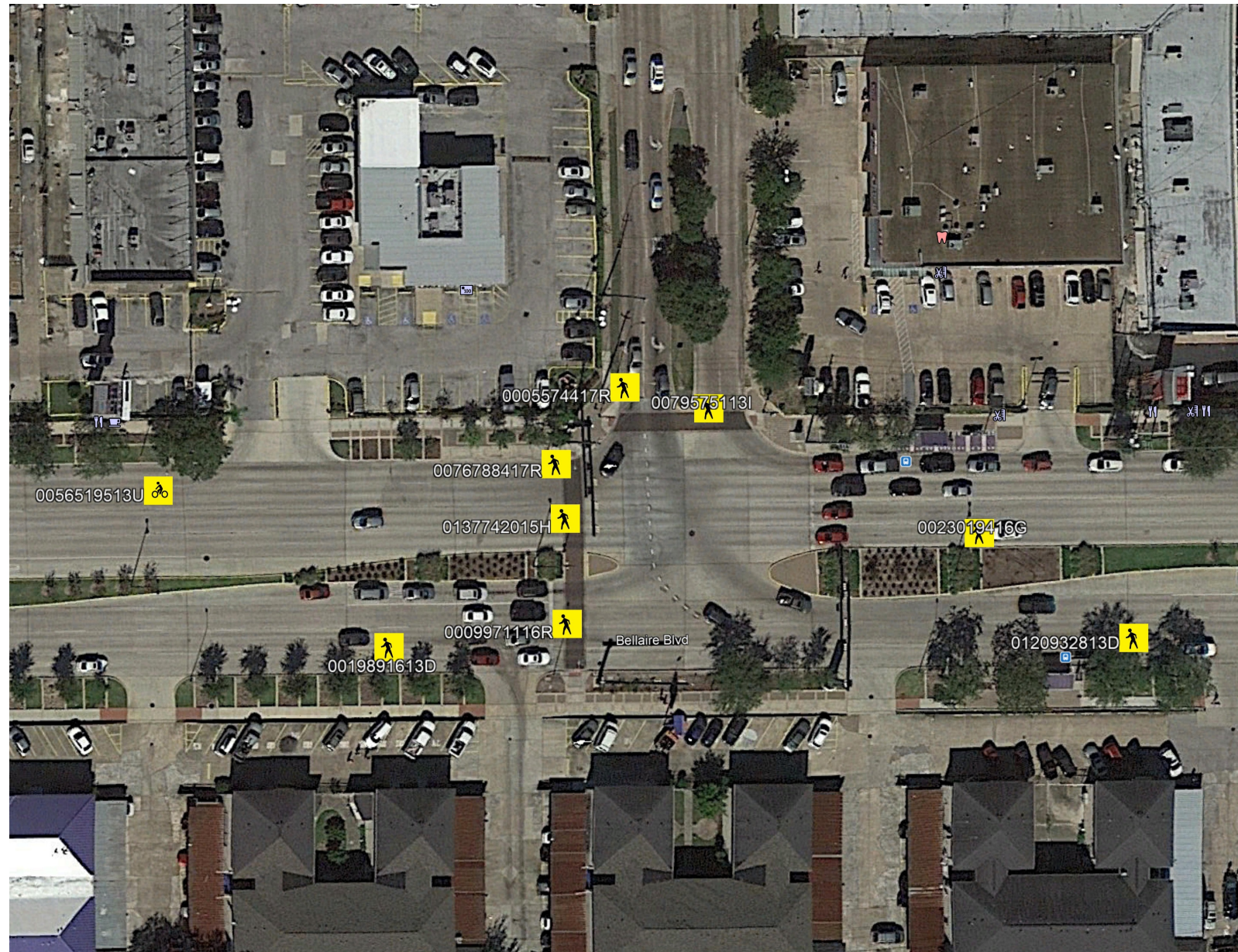
Major Recommendations

- 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 Ranchester

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

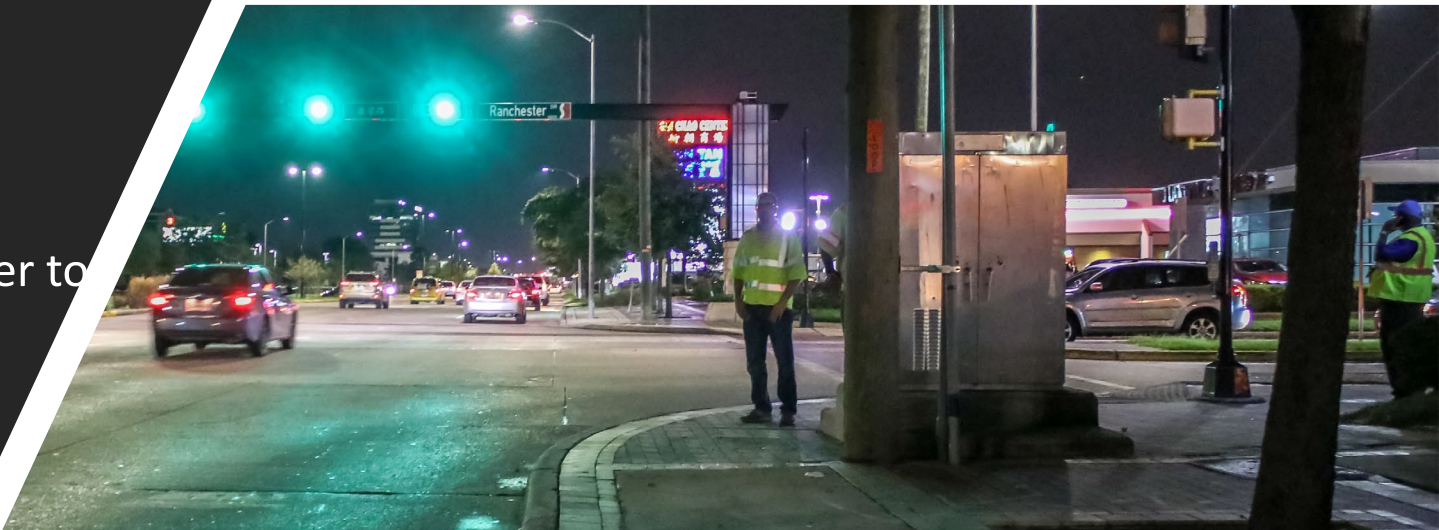


Note: Crash numbers above include records from all law enforcement agencies; map shows just HPD

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



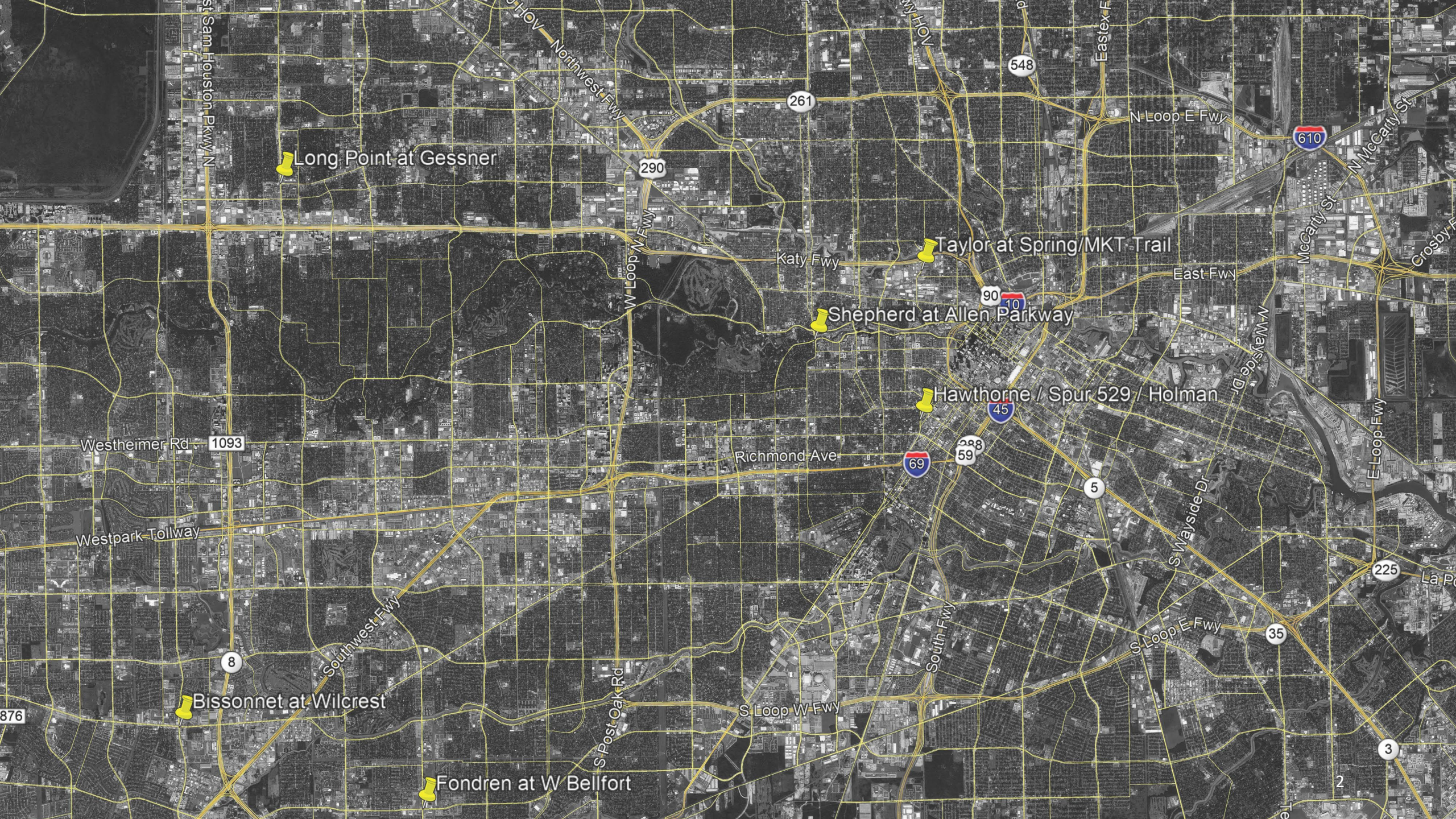
Next Steps – RSA Phase 1

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

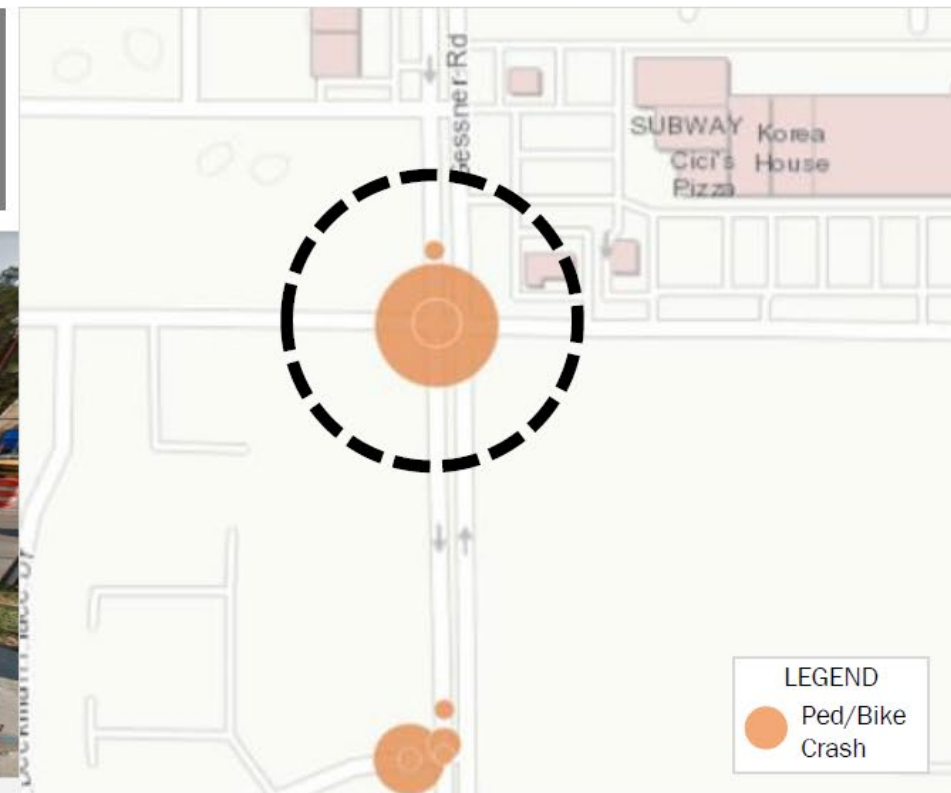
Additional funding will be sought for other capital projects.

Next 6

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



Safer Streets Priority Intersections for People Walking & Biking

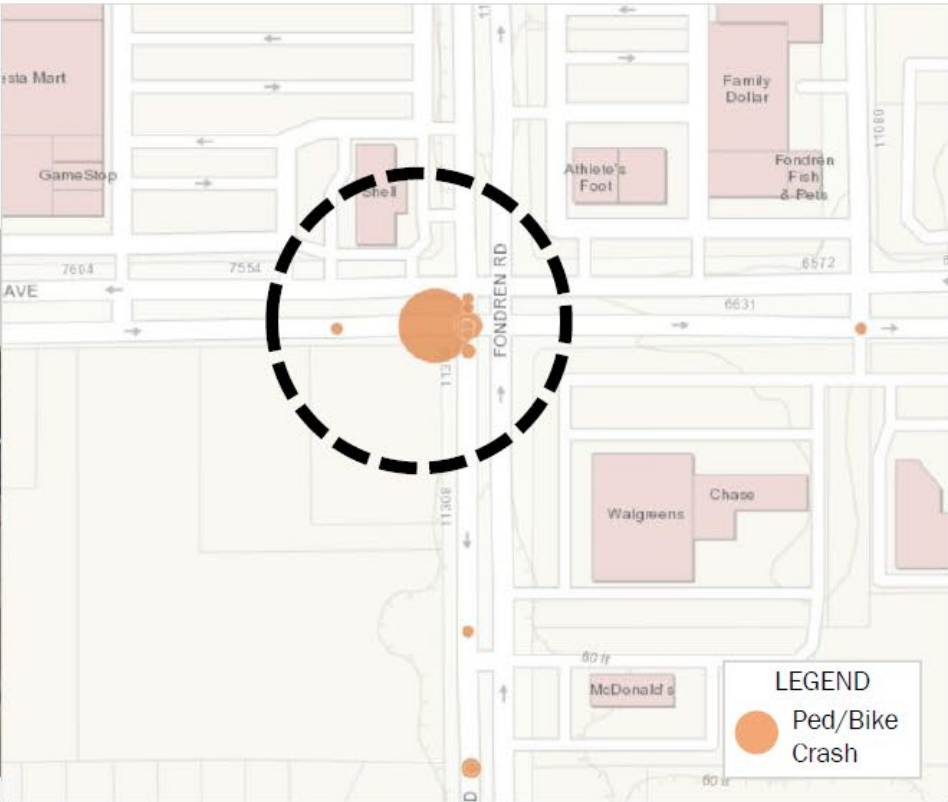


Neighborhood	Spring Branch West
# of crashes	4 (4 walking, 0 biking) 1 ped death
Value of prevention	\$14.7m
# population in tract ^a	4,324 48201522202
% HHs in poverty ^a	38%
% HHs with no vehicle ^a	10%
# jobs in proximity ^b	431
# schools within ¼-mile ^c	2
# transit stops adjacent ^d	2 (303 weekday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

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**LONG POINT &
GESSNER**

Safer Streets Priority Intersections for People Walking & Biking



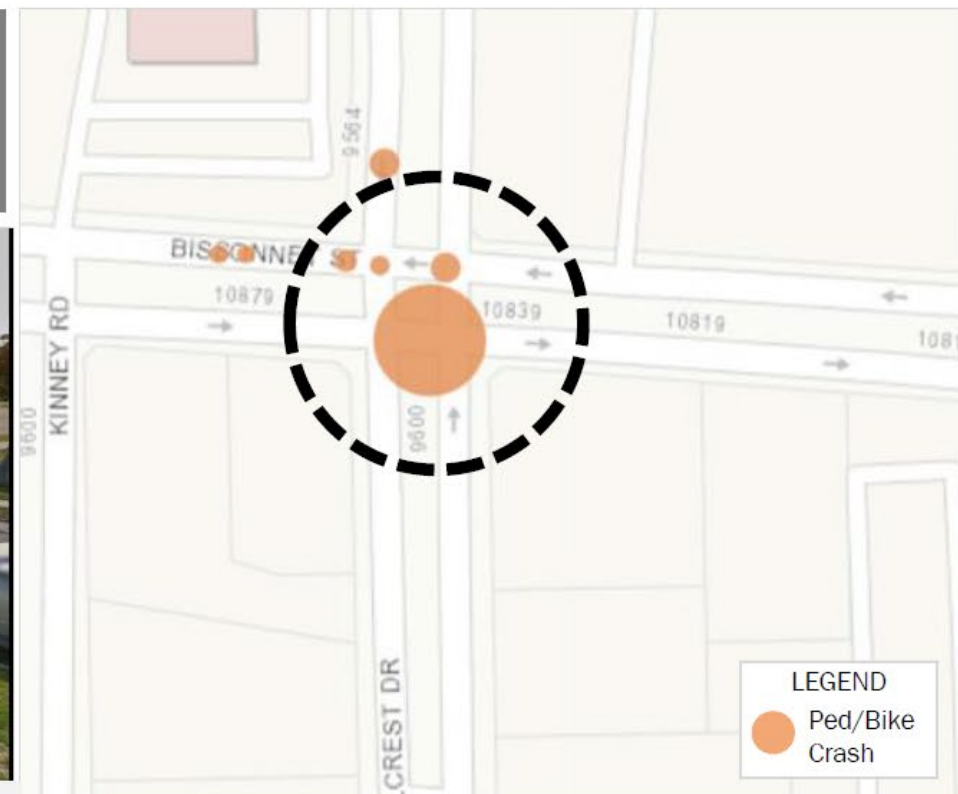
Neighborhood	Greater Fondren Southwest
# of crashes	12 (11 walking, 1 biking) 1 ped death
Value of prevention	\$14.3m
# population in tract ^a	5,142 48201423302
% HHs in poverty ^a	20%
% HHs with no vehicle ^a	14%
# jobs in proximity ^b	791
# schools within ¼-mile ^c	2
# transit stops adjacent ^d	3 (504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

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

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**BISSONNET &
WILCREST**

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