

NORTH MAIN STREET SAFETY IMPROVEMENTS

MULTIMODAL SAFETY & DESIGN TRANSPORTATION DRAINAGE & OPERATIONS

MAY 30, 2023



AGENDA

Presentation (10 minutes)

- North Main Street Safety Improvements Overview
- Existing Conditions
- Proposed Safety Improvements
- Next Steps / Timeline



Goals

The City of Houston is committed to improving street safety, increasing access to multimodal transportation, and connecting residents to essential destinations. We are prioritizing moving people safely over moving vehicles quickly.

We are guided by these goals:

Vision Zero:

To eliminate traffic deaths and serious injuries on Houston streets by 2030.

Resilient Houston:

To make our streets 100% safe for all Houstonians.

Houston Bike Plan:

To make Houston a safer, more accessible, Gold Level Bike-Friendly City by 2027.

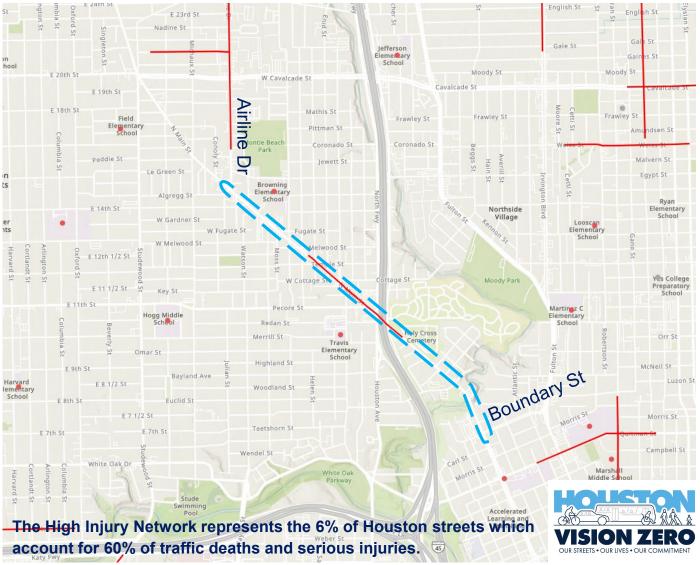








WHY NORTH MAIN?



- High Injury
 Network
- 2. Council Member support
- 3. Bikeway
 Prioritization
 process



NORTH MAIN PROJECT OVERVIEW

Retrofit project

Two project phases

Phase 1 – Boundary to Cottage

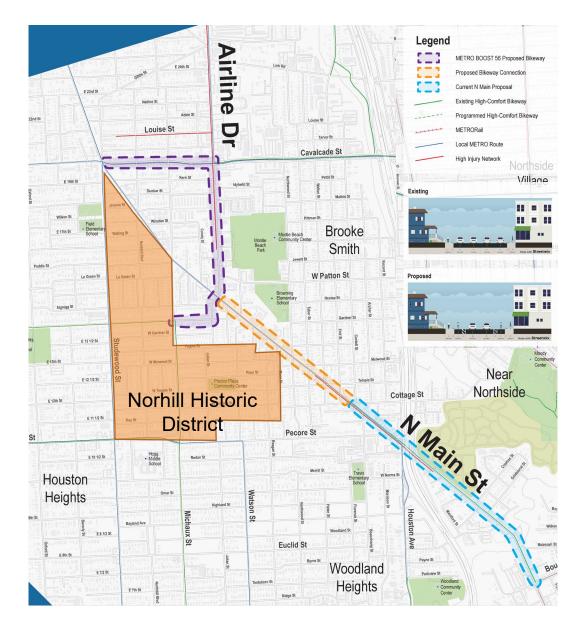
Phase 2 – Cottage to Airline

Boundary to Cottage

- Status: 100% design
- Community engagement started April 2021
 - Business Engagement meeting
 - Glen Park Civic Club meeting

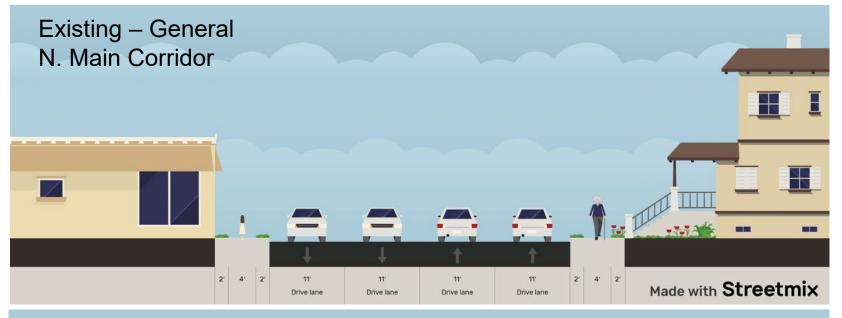
Cottage to Airline

- Status: Conceptual
- Community engagement started April 2023
 - Block-walking





NORTH MAIN PROJECT OVERVIEW

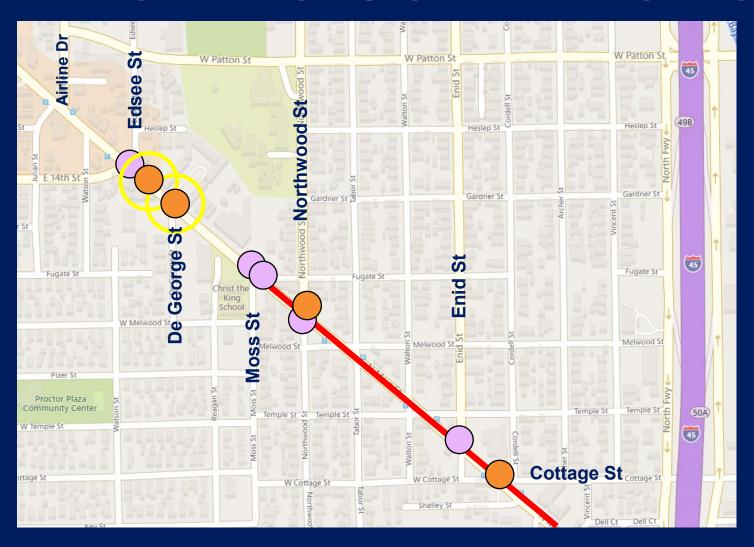




Also includes improvements to

- Bus stops
- Curb ramps
- Crossings
- Signal timing
- Intersection alignments





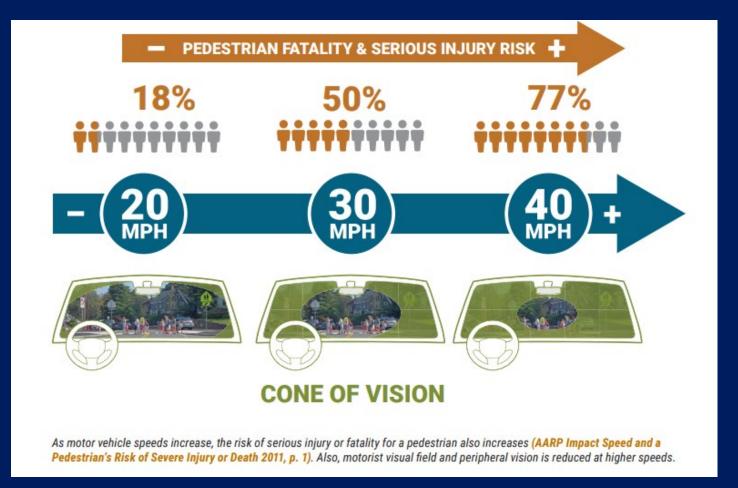
4 serious injuries5 minor injuries

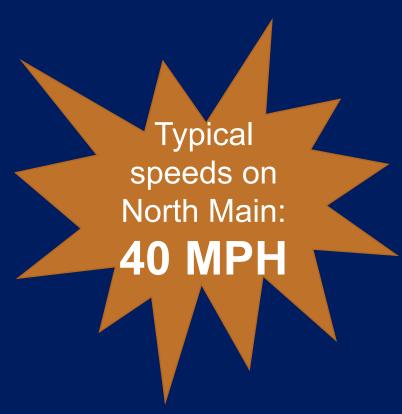
2 crashes involved pedestrians

Both resulted serious injuries

- Ped crashes
- Minor injuries
- Serious Injuries
- High Injury Network







2019 TRAFFIC 45 TO AIRLINE daily volume: 13,172

2023 TRAFFICEDSEE TO DE GEORGE daily volume: 14,232

Street	Extent	Description	Traffic Volume (Max)
Studewood	White Oak to N Main	3 lanes	15337
W Alabama	Weslayan to Spur 527	3 lanes (reversible)	15056
Bissonnet	Greenbriar to Montrose	2 lanes	14927
N Main	I-45 to Airline		14232
University	Kirby to Main	2 lanes	14142
Greenbriar	Holcombe to University	3 lanes	12469
20th	E TC Jester to N Main	2 lanes	12023
Rice	Greenbriar to Main	2 lanes	11220
Polk	Emancipation to Wayside	2 lanes + bike lanes	9577
Pecore	Michaux to N Main	2 lanes	9254
Lawndale	Telephone to Forest Hill	3 lanes + bike lanes	8606
Dunlavy	Bissonnet to Westheimer	2 lanes	8178







VOICED CONCERNS

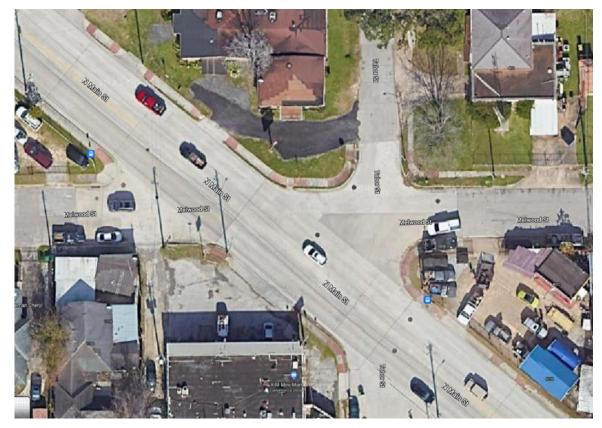


Interactive Map available at: https://www.letstalkhouston.org /vision-zero/maps/vision-zeromap-tool

VOICED CONCERNS

What intersections along North Main concern you the most?	
Interstate 45	12
Airline	11
Northwood	8
14 th /Edsee	7
Beauchamp	7
Others	18
"All of it"	9

Survey available at: https://www.letstalkhouston.org/north-main



Interstate 45, Main/14th/Edsee (and other intersections where two roads meet at odd angles and cars try to drive across Main; Main/Tabor/Melwood is another)

Chris Parma

12/06/2022 08:36 AM



U.S. Department of Transportation
Federal Highway Administration



Bicycle Lane Additions can reduce crashes up to:

49%

for total crashes on urban 4-lane undivided collectors and local roads.*

*Separated bicycle lanes may provide further safety benefits. FHWA is anticipating completion of research in Fall 2022.





Proven Safety
Countermeasures

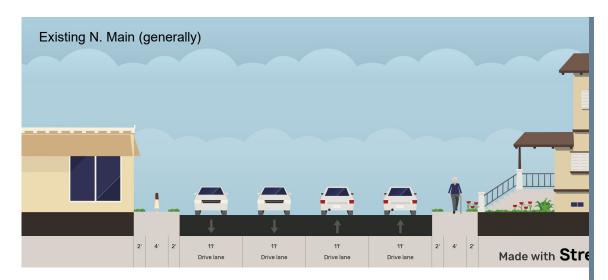


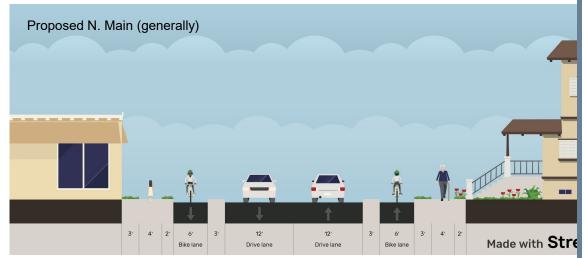
Pedestrian Refuge Island

56%

reduction in pedestrian crashes.²







General proposal; cross-sections may look different at intersections

Reducing vehicle lanes:

- Decreases speeding
- Decreases crash severity
- Reduces conflict points
- Narrows crossing distance
- Maintains traffic flow



What we heard

Wonky intersection angles

Since the street is angled, visibility is limited and it is particularly difficult to cross N. Main, especially as a pedestrian or bicyclist.

The odd angles make it hard for drivers to see oncoming traffic when turning.

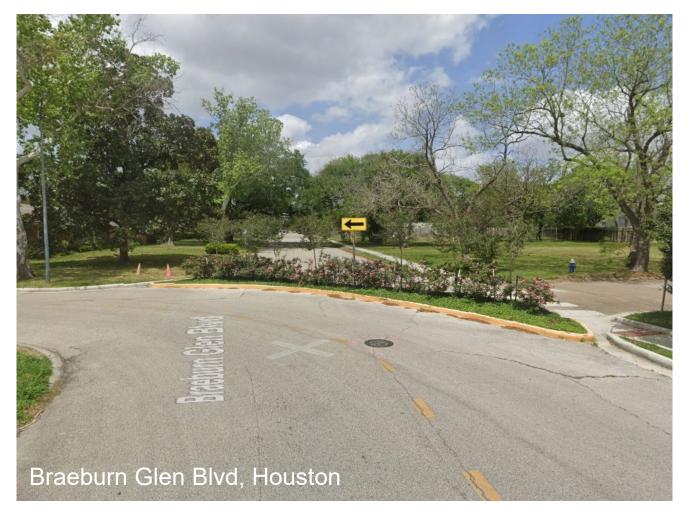
How we responded

Adding curb extensions to improve angles at Pecore and Beauchamp; proposed curb extensions at Julian

Proposing traffic diversions at Cordell/Cottage, Walton/Temple, and Melwood/Tabor











What we heard

Lack of pedestrian/bicycle facilities

There are very few safe crossings on N. Main, especially I-45 and Airline.

There are children walking to and from schools across Main that have no safe place to cross, especially at Browning Elementary.

People want to walk and bike, but the sidewalk is too close to the street and drivers go very fast.

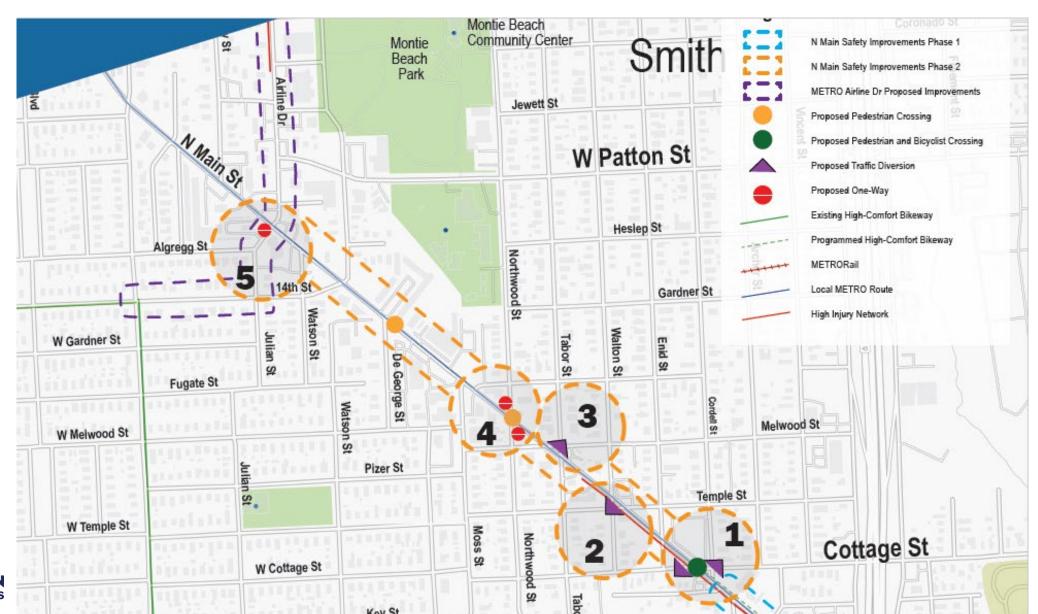
How we responded

Adding crossings for pedestrians and bicyclists at Cottage St. and De George St.

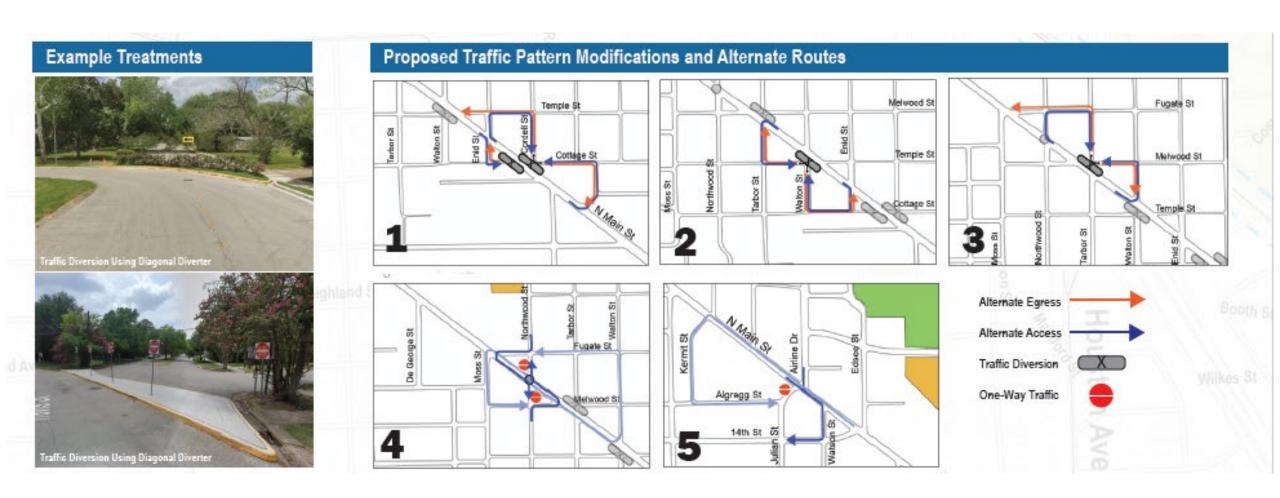
Enhancing existing crosswalk with pedestrian refuge island at Northwood St.

Adding physically-protected bicycle facility that will narrow the roadway, shorten crossing distances, slow vehicle speeds, and provide a buffer for the sidewalk.











PUBLIC FEEDBACK SO FAR



- Unsafe to cross at certain locations
- Include permeable treatment
- Add street trees
- Add turn lanes needed at certain locations
- Ensure ped/bike access at traffic diversions
- Make bike lane barriers highly visible
- Analyze data before pursuing / Stop project



NEXT STEPS

- Advance design for Cottage to Airline
 - -Collect public input
 - -Develop 60% design concepts in next month
- Plan for construction Winter 2023 / early 2024
 - Includes a traffic control plan that helps to minimize impacts to business operations during construction



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Phase 2 – Cottage to Airline

Boundary to Cottage

- Status: 100% design
- Construction (est.): Winter 2023 / early 2024
- Funding
 - Design: Council Member Cisneros
 - Construction: Houston Bikeways Program

Cottage to Airline

- Status: Conceptual
- Construction (est.): Winter 2023 / early 2024
- Funding
 - Design & Construction: Houston Bikeways Program





Thank you!

More Information, Post Questions:

www.letstalkhouston.org/north-main

Safe Streets Team

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