



MAYOR'S STREET REHABILITATION INITIATIVE

CAROL HADDOCK, DIRECTOR

WALTER HAMBRICK, ASSISTANT DIRECTOR
TRANSPORTATION & DRAINAGE OPERATIONS



“The streets are in bad condition and need panel replacements or need to be totally repaved. I have instructed Public Works to present to me within 60 days a systematic plan that identifies those streets that need to be seriously rehabilitated, a potential funding source and an estimated timeline for work to commence. You should see a noticeable improvement by the end of this term.

Mayor Sylvester Turner

2020 Inaugural Address

INFRASTRUCTURE PRESERVATION



standard operations & maintenance

mow ditches, patch potholes, repair water leaks, clear wastewater lines, replace meter box lids



planned improvements to extend life of infrastructure

local drainage projects, panel replacements, intersection safety, water valve & fire hydrant replacement, reline wastewater lines

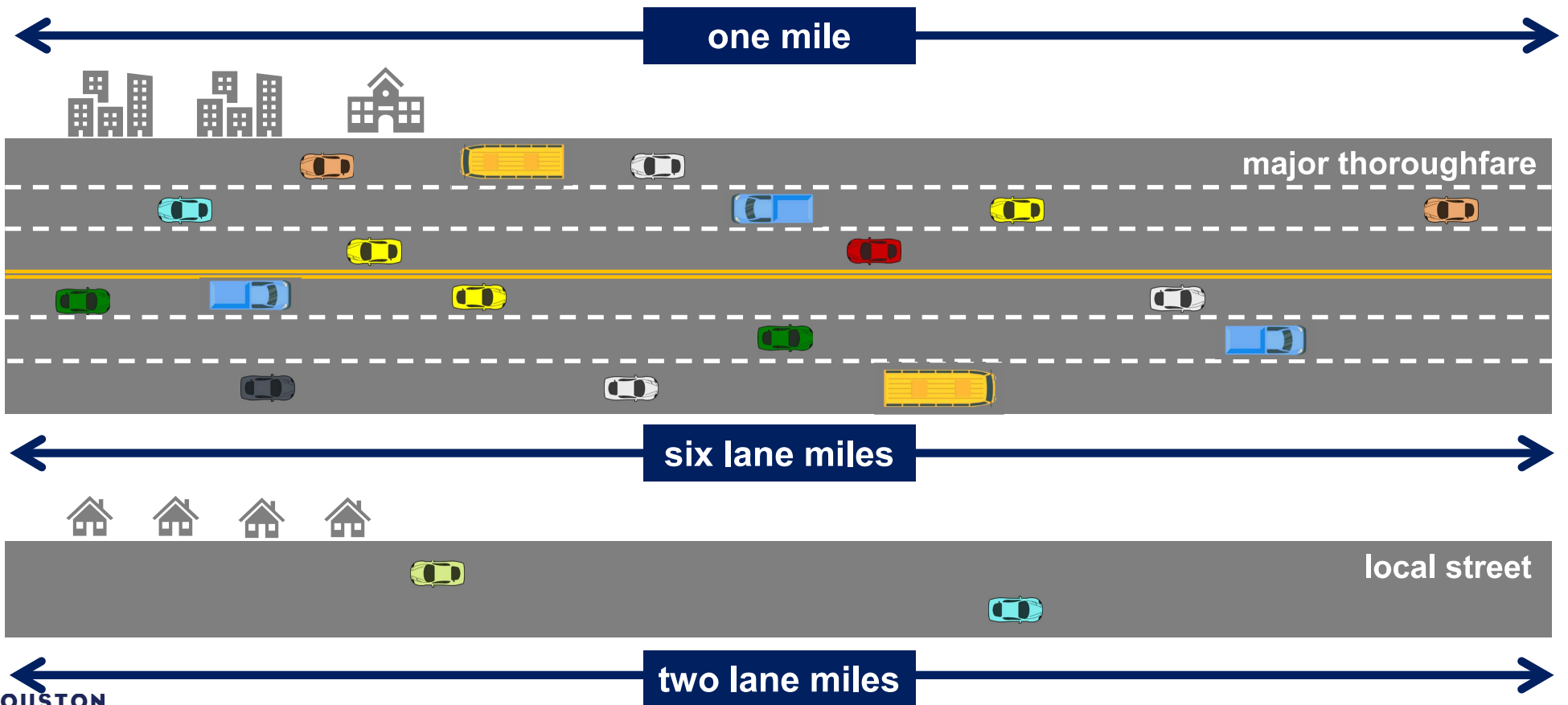


large projects to replace & expand infrastructure systems

storm sewer upgrades, neighborhood drainage, water & wastewater lines, street improvements, thoroughfares, new plant expansion & upgrades, large diameter water & wastewater lines

WHAT IS A LANE MILE?

uniform basis of comparison



COST COMPARISON BY LANE MILE



varies by treatment



\$400K major thoroughfare rehabilitation
\$160K local street rehabilitation



\$3.2M total street reconstruction

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GOAL

Houstonians will see a noticeable improvement in streets by 2024

APPROACH

increase transparency, accountability & rehabilitation frequency, including sidewalks, curbs, gutters, inlets and ramps next to projects

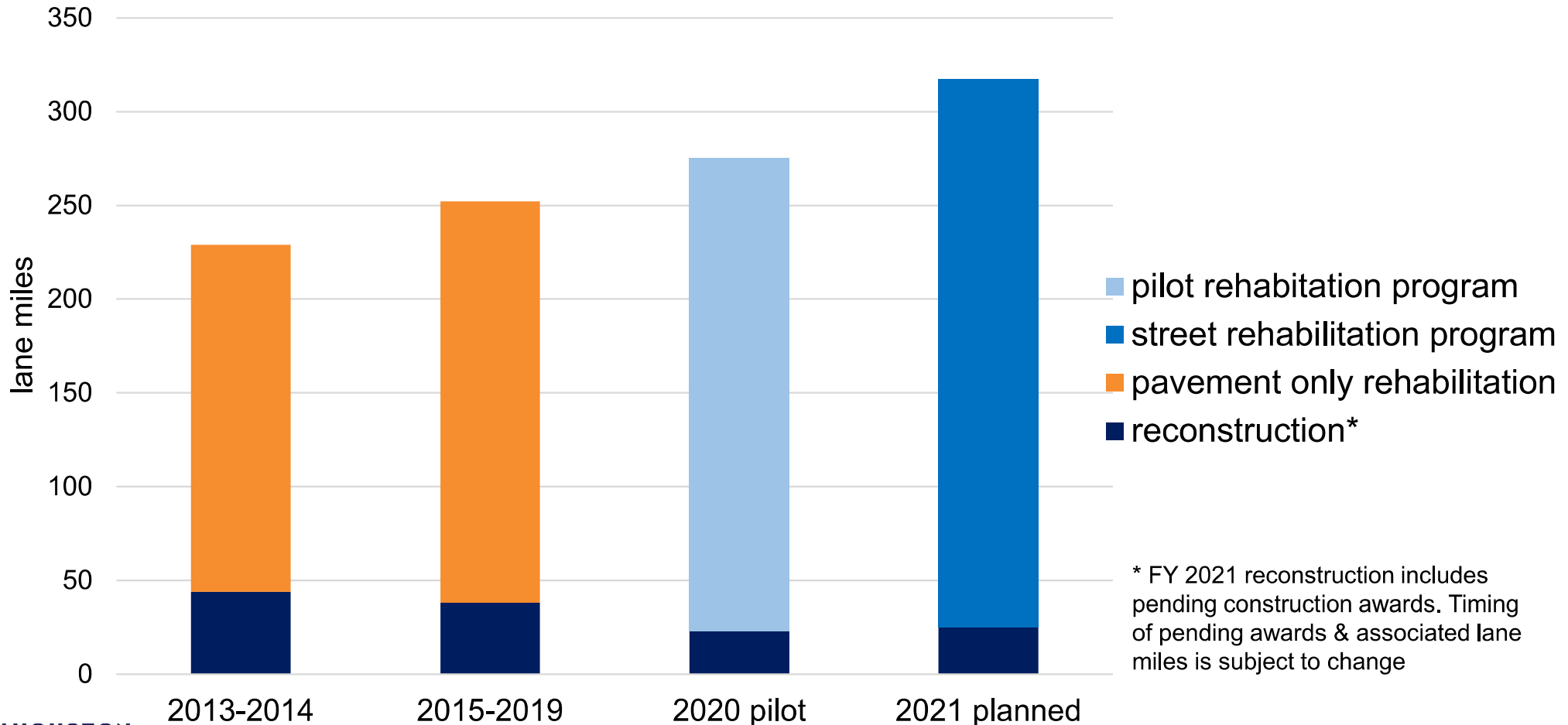
REHAB CYCLES

major thoroughfares & collectors 2% annually

local asphalt streets 2% annually

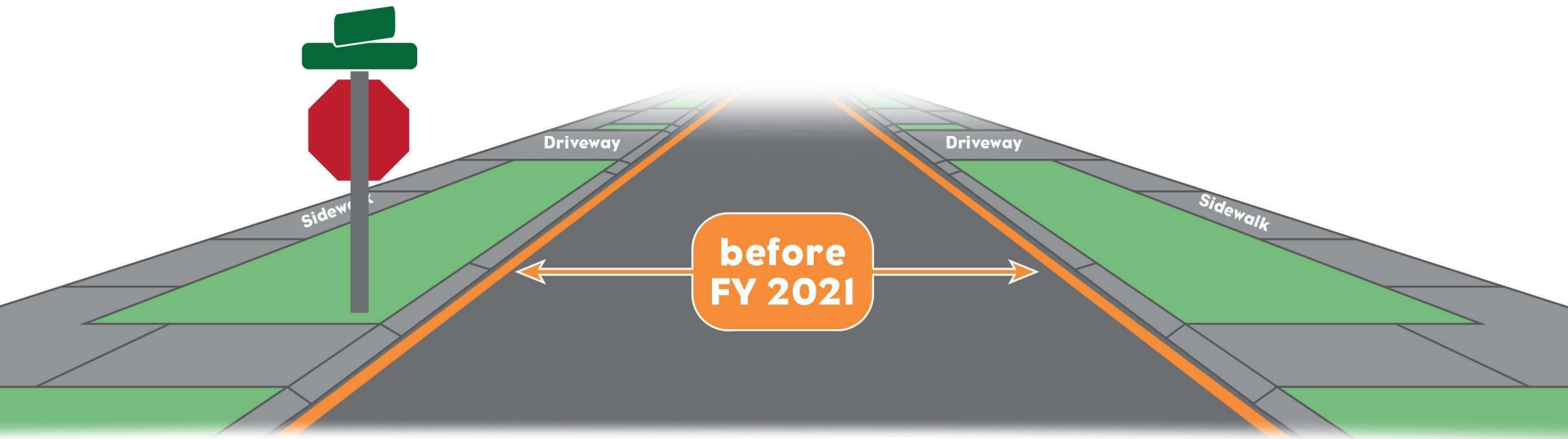
local concrete streets 1.3% annually

MAXIMIZE STREET IMPROVEMENTS

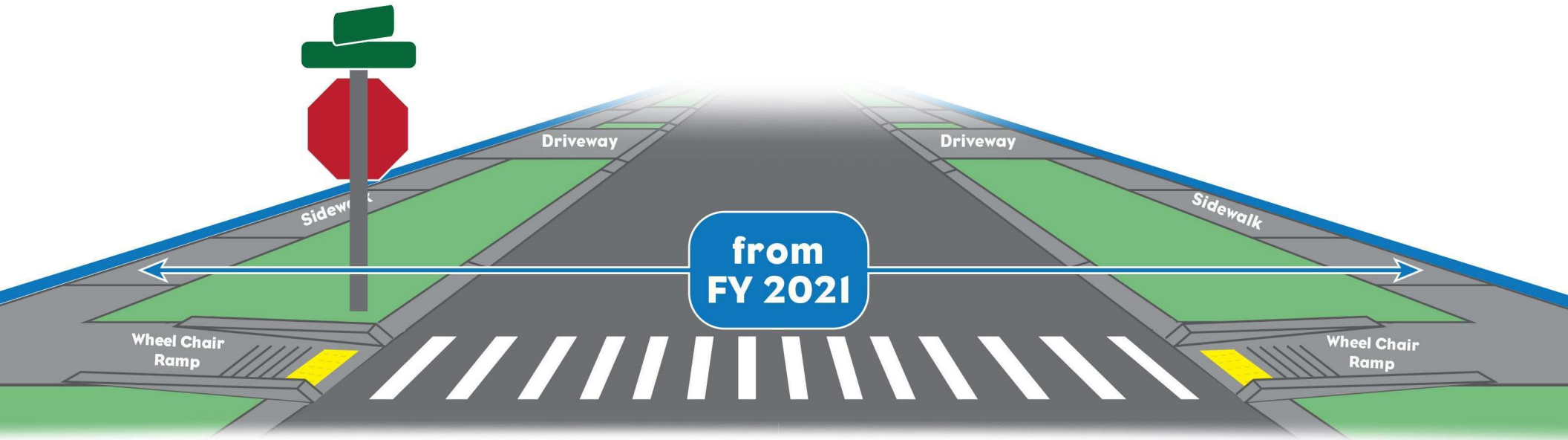


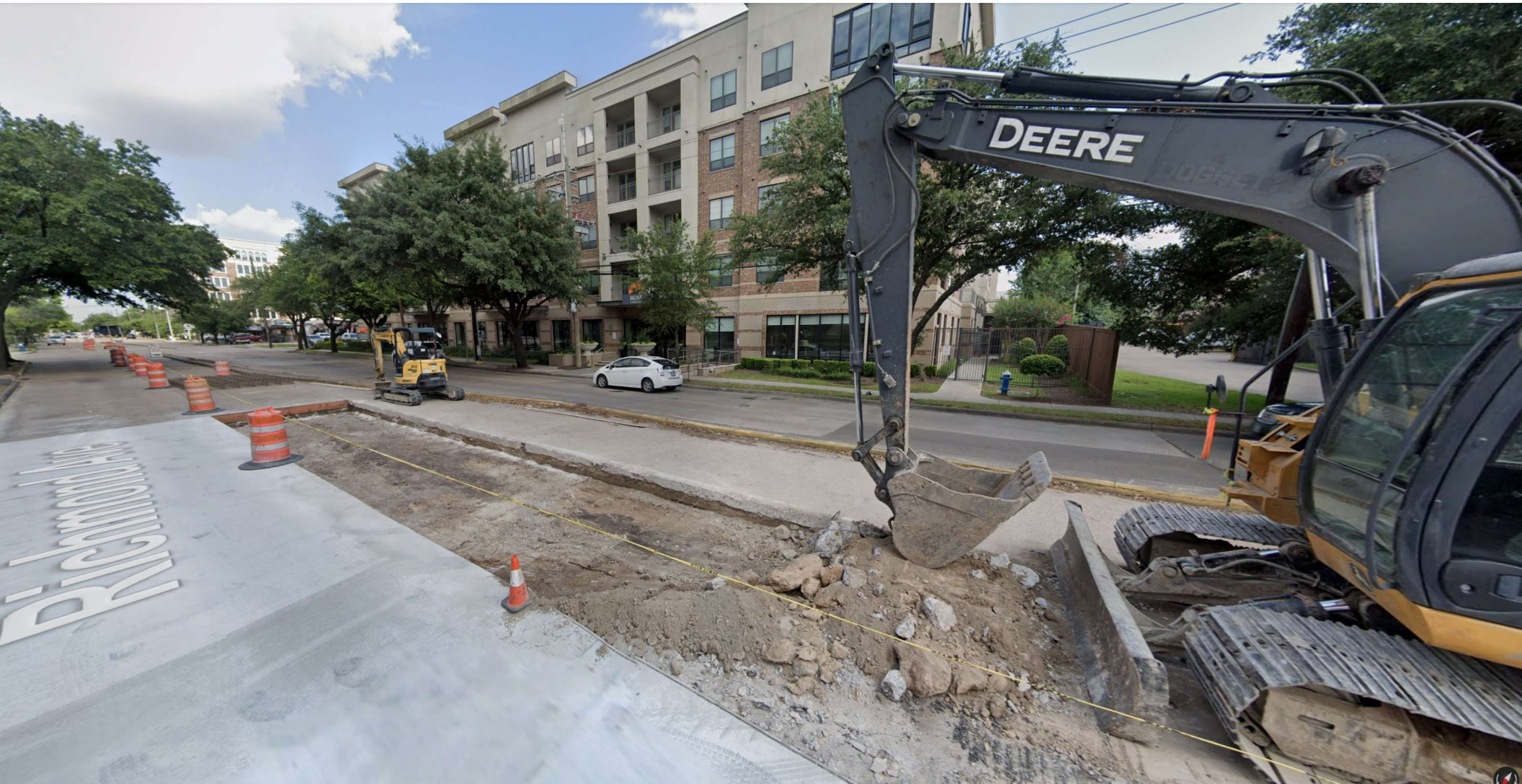
* FY 2021 reconstruction includes pending construction awards. Timing of pending awards & associated lane miles is subject to change

MAXIMIZE IMPACT



MAXIMIZE IMPACT







ASPHALT OVERLAY

DISTRIBUTING INVESTMENT

NOT ALL DISTRICTS ARE THE SAME

District B

590 lane miles major streets

74.3K housing units

1,911 people per square mile



District J

213 lane miles major streets

80.1K housing units

9,962 people per square mile



MAJOR THOROUGHFARES & COLLECTORS

Council District	Total Lane Miles	2% of Lane Miles	District Directed	Total Annual Rehab Miles
A	450	9	2	11
B	590	12	2	14
C	556	11	2	13
D	503	10	2	12
E	300	6	2	8
F	289	6	2	8
G	292	6	2	8
H	410	8	2	10
I	338	7	2	9
J	213	4	2	6
K	406	8	2	10
TOTAL	4347	87	22	109

DATA DRIVEN PRIORITIZATION

industry standard every 2 years

international roughness index

ride quality

pavement condition index

condition

traffic volumes

average daily count of vehicles

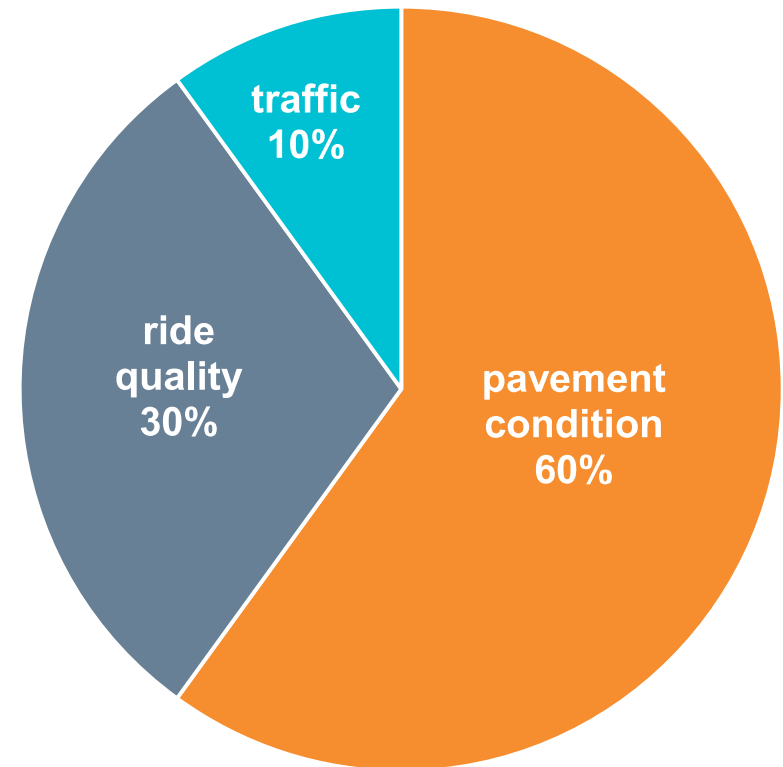


PRIORITIZATION CRITERIA

balance pavement condition with driver experience

consider number of vehicles

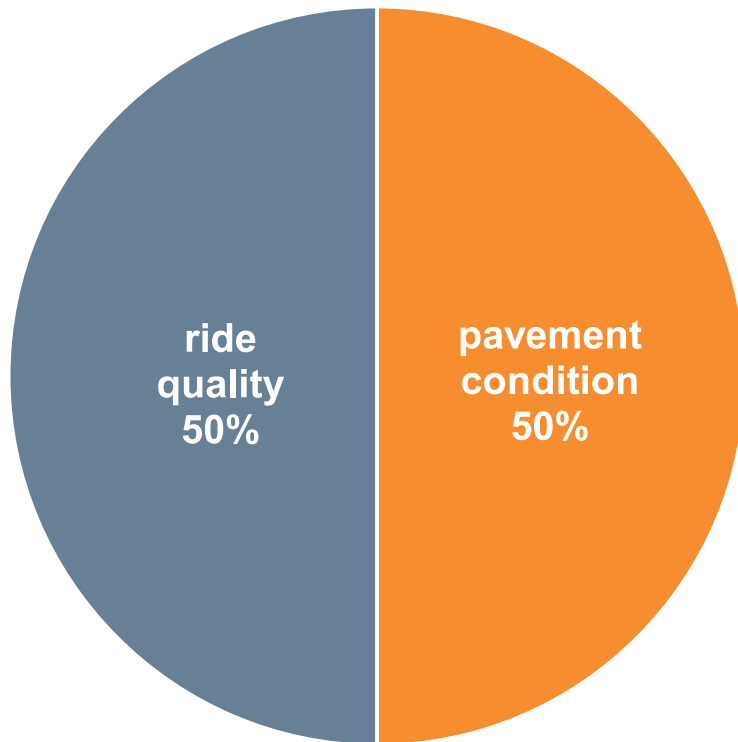
major thoroughfares & collectors



LOCAL STREETS

Council District	Total Asphalt	Total Concrete	2.0% of Asphalt	1.3% of Concrete	District Directed	Total Annual Rehab Miles
A	311	455	6	6	2	14
B	910	327	18	4	2	24
C	711	347	14	5	2	21
D	687	426	14	6	2	22
E	351	861	7	11	2	20
F	68	338	1	4	2	7
G	171	555	3	7	2	12
H	897	86	18	1	2	21
I	728	210	15	3	2	20
J	100	228	2	3	2	7
K	216	617	4	8	2	14
TOTAL	5150	4450	103	58	22	183

local streets



PRIORITIZATION CRITERIA

balance pavement condition with driver experience*

future consideration of heavy truck traffic

* traffic volume on local streets is not relevant criteria

STREET REHABILITATION INITIATIVE

FY 2021

construction underway
plan: 292 lane miles*

*addresses curbs, gutters, inlets and ramps

Kingwood

Clear Lake

major street
pavement rehab

local street asphalt
rehab

local street
concrete rehab

TRANSPARENCY



HOME FIND A PROJECT ABOUT FAQs

PROJECTS ARE STILL GETTING UPLOADED TO THIS

The screenshot shows a web interface for finding projects. At the top, there's a navigation bar with 'HOME', 'FIND A PROJECT', 'ABOUT', and 'FAQs'. Below this is a search bar with the placeholder text 'Your Address'. A map of Houston is displayed, with a red-shaded area indicating a project location. A popup window provides details for the project:

SNBR 1-1349 Willowbrook	Planned
FY 2031-35 Asphalt Street Rehab	District A
FY 2041-45 Concrete Street Rehab	Third Party Funds

BuildHoustonForward.org



BUDGET AMENDMENT NO. 14.05

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within 60 days of approval of this amendment, Houston Public Works to provide an update on neighborhood street maintenance program to QOL committee or TTI committee.

the update shall focus on department's preventative maintenance schedule, prioritization, funding allocation process and ways to expand the department's maintenance program to include gutter, curb and sidewalk repair utilizing operations and maintenance funds (2310, 2311, 2312).

SIDEWALKS, GUTTERS & CURBS

before FY 2021

not included in rehab

FY 2021

curb, gutter & sidewalks addressed with adjacent rehab projects

adjacent inlets & ramps also addressed

where replacement is needed, new inlets & ramps to current standards

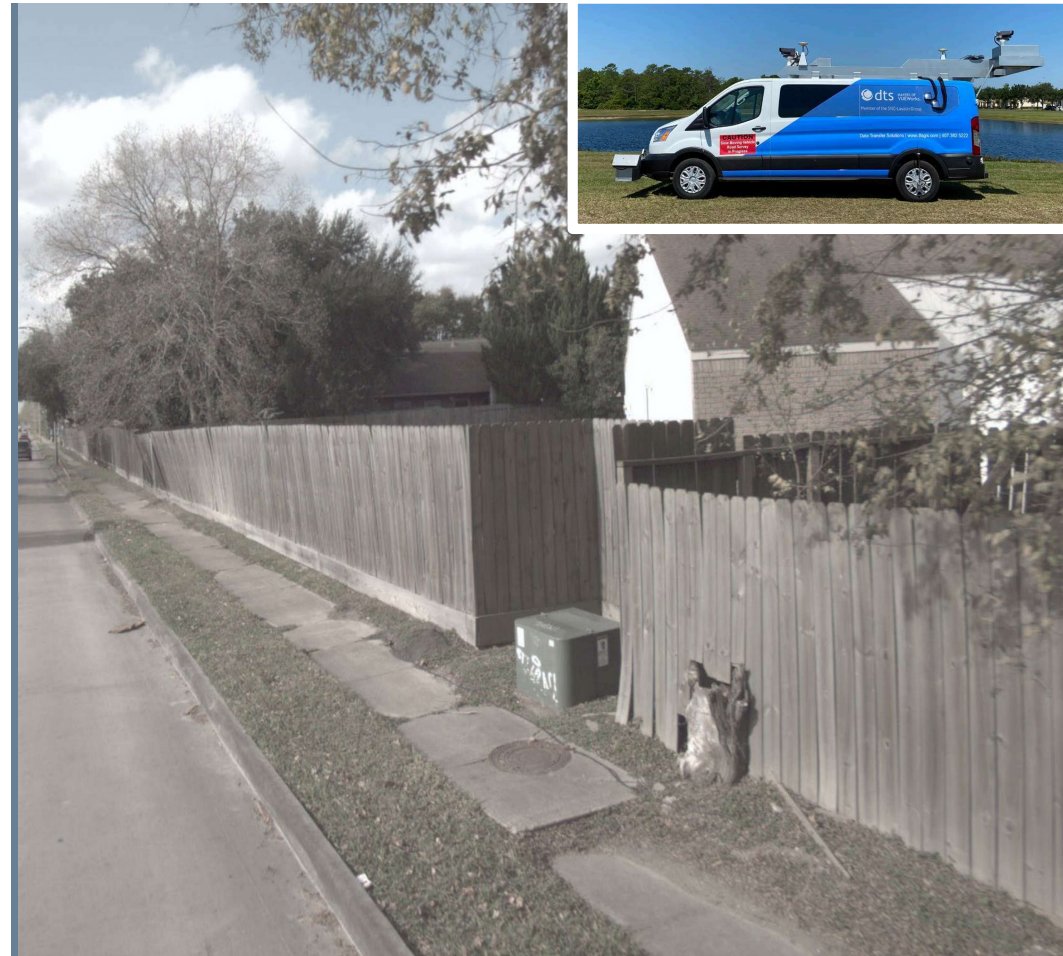
EXPANDED DATA COLLECTION

includes sidewalks, ramps, curbs & gutters

assigns condition*

- good = repair
- fair/gap = rehab
- poor = reconstruct
- missing = new

* previous data collections did not address gaps & missing sidewalks



SIDEWALK CONDITION*

Adjacent to	Condition	Length (miles)	% needing repair
Major Thoroughfares & Collectors	Good	1005	1%
	Fair	279	33%
	Poor	64	100%
Total		1348	12%
Local Streets	Good	1378	1%
	Fair	2434	33%
	Poor	482	100%
Total		4264	30%
SIDEWALK TOTAL		5642	26%

*gaps and missing sidewalk locations are pending

SIDEWALKS, GUTTERS & CURBS

evaluating for FY 2022 budget development

sidewalks & gutters are prioritized based on

- condition
- walkability & mobility
- access to transit and public services

curbs that impact infrastructure performance

- pilot program on curb rehabilitation related to truck traffic

thank you!



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