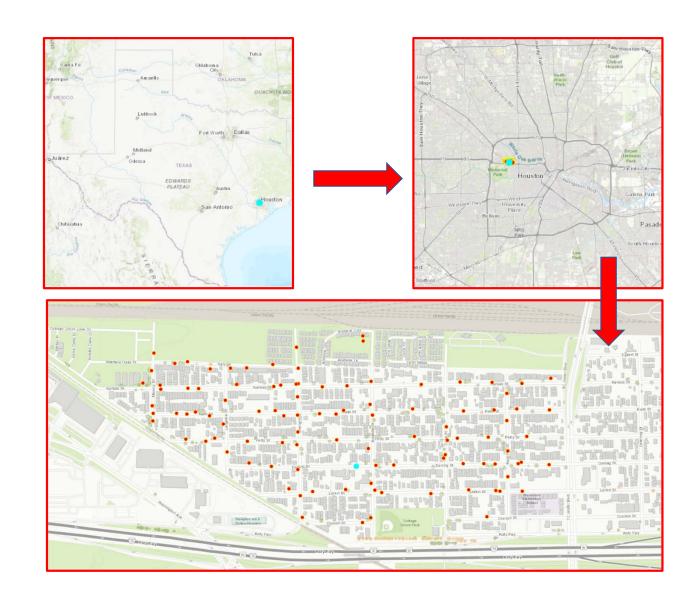
Use of Survey123 to Document Infrastructure Status

2021 ESRI Infrastructure Management & GIS Conference

By: John M. Lynk, PE
Infrastructure Chair for Cottage Grove Civic Association

Where?



These factors . . .







╀

POLITIC

Houston Passes \$5.1 Billion Annual Budget, Using Federal Aid To Plug Deficit

The city avoided budget cuts and layoffs, though Mayor Sylvester Turner said the pandemic caused the worst deficit in the city's history.

JEN RICE | JUNE 2, 2021, 6:25 PM (LAST UPDATED: JUNE 3, 2021, 3:14 PM)











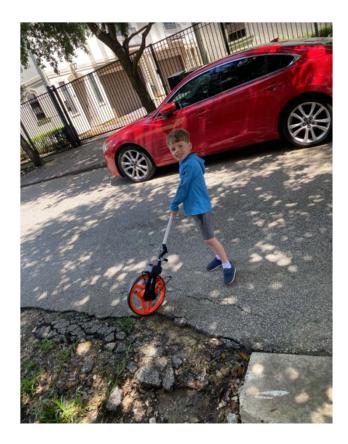




... result in these outcomes ...







...and these ...



... and these ...



... and this.

- Street width surveyed in 59 locations
- Width less than 20'-0" in 48 of 59 locations, less than 12' in places.

3.4.6.1 Dimensions.

Fire apparatus access roads and Fire Lanes shall have an unobstructed width of not less than 20 feet and an unobstructed vertical clearance of not less than 13 feet 6 inches.



HOUSTON FIRE DEPARTMENT LIFE SAFETY BUREAU (LSB)





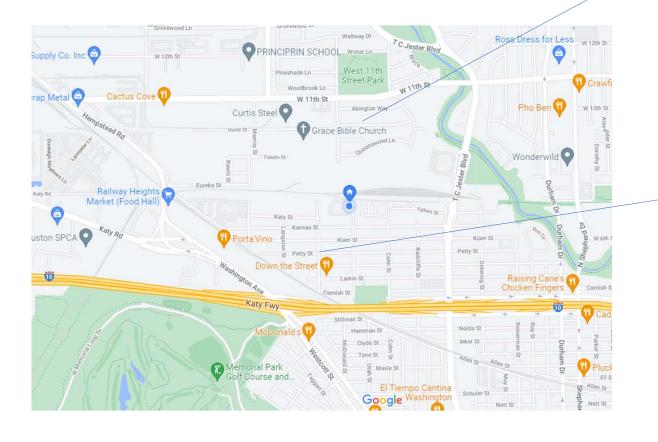
Note: A vertical bar in the left-hand margin denotes revisions to the previous version.

SUPERSEDES: LSB Standard 03, rev 04, dated 12/31/2010

Effective Date: 5/01/2012



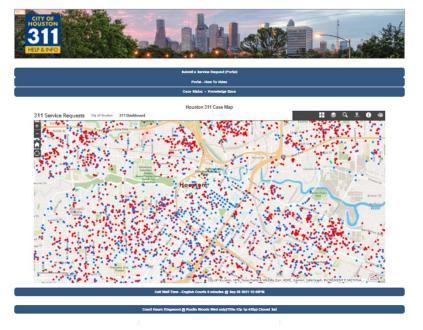
Goal Setting

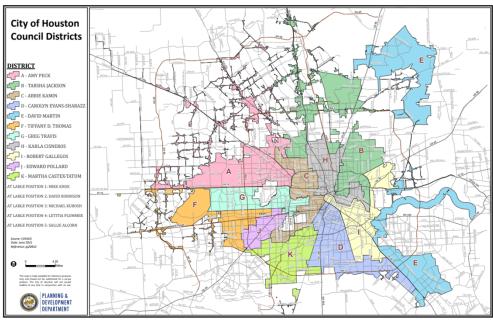






Getting to Yes no, no, no . . .







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... Yes!!!









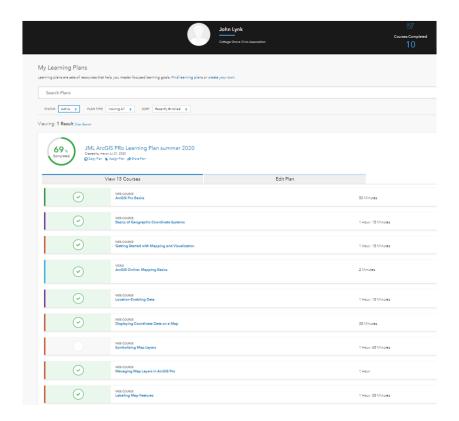




Professional Crossover



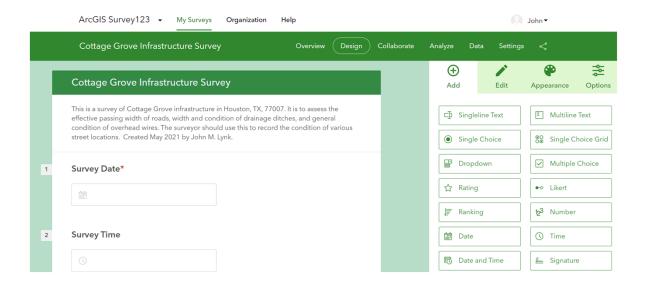




Survey Questions

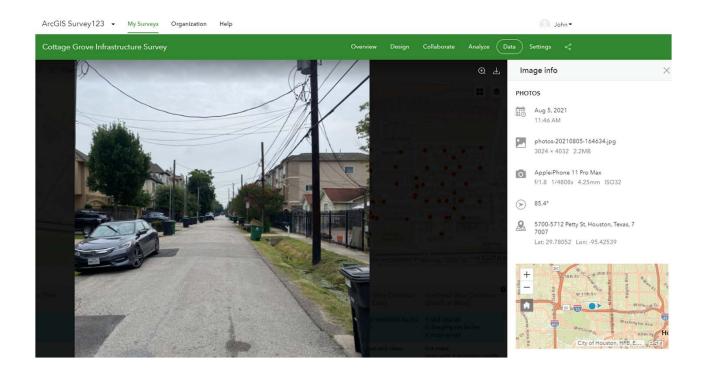
- 1. Survey Date
- 2. Survey Time
- 3. Survey Location
- 4. Photos
- 5. Traffic Effective Width, as in 20'-6".
- 6. Drainage Ditch Condition (North or East) (Width, depth, description)
- 7. Drainage Ditch Condition (South or West)
- 8. Overhead Wire Condition (North or East) (Number of wires, comments tangled/drooping/tree interference)
- 9. Overhead Wire Condition (South or West)

Benefits of Survey123 for Cottage Grove Civic Association





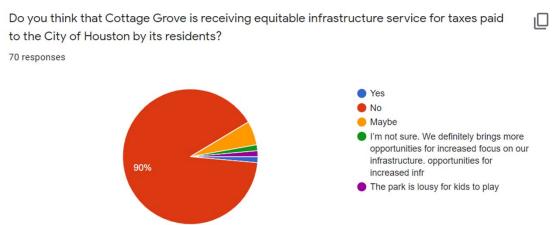
Benefits of Survey123 for Cottage Grove Civic Association





Survey Results, Next Steps, and Conclusions

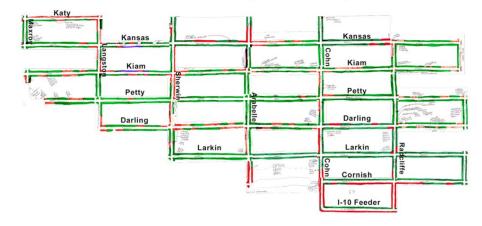
- 104 data points taken. Provided substantial evidence to support claims about road width, ditch conditions, and utility wires.
- Presented to rest of Cottage Grove community on September 9, 2021
- A related community survey was sent out based on the Survey123 data:



Ideas for Other Mapping Applications

CG Internal Assessment Report

Sidewalk Continuity Survey





Thank you!

jmlynk03@gmail.com