Main Street Restriping Project

CONTEXT

In Joplin, our city has historically been built to accommodate motor vehicles. In the past decade, we've made great strides in making other modes of transportation more accessible for users: our trolley system continues to grow in popularity and expand, our new street construction projects feature ADA accessible sidewalks, and many new projects have small bike lanes. However, most our streets are still centered around cars and simply move people rather than generate wealth.

EXISTING CONDITIONS

Main Street traffic conditions from 1st Street to 7th Street:

- 4 traffic lanes with parallel parking on both sides of the street
- 20 mph speed limit
- 7,000 average daily traffic count
- 29 mph average speed
- 10% truck traffic
- 60' roadway width (excludes sidewalks)

Current layout (see Figure 1):

- Four 12' travel lanes
- Two parallel parking lanes

PROPOSAL

Because of the mill and overlay project recently done on Main Street from 15th Street to F Street, now is an opportune time to try a temporary re-striping project while we have a blank slate. This pilot project can be used to try different street configurations without making permanent changes to the streetscape, allowing for citizen use and feedback prior to permanent adoption. City staff will be able to apply a diluted paint that can be easily removed at a low cost. City staff propose the following street re-designs as part of this temporary pilot project:

From 7th Street to 4th Street (see Figure 2):

- Two 10' travel lanes
- Two 9' parallel parking lanes
- Two 4' bike lanes
- Two 6' sidewalk extension/parklet lanes

From 4th Street to 1st Street (see Figure 3):

- Two 10' travel lanes
- One 10' center turn lane
- Two 4' bike lanes
- Reverse angle parking (20')

ADDITIONAL RESOURCES

https://www.strongtowns.org/journal/2013/3/4/the-stroad.html

https://www.youtube.com/watch?v=n3ucpaCigig

https://safety.fhwa.dot.gov/road_diets/guidance/info_guide/

https://www.citylab.com/design/2014/09/so-what-exactly-is-a-road-diet/379975/

PROPOSED DESIGNS

Figure 1: Current Main Street Design

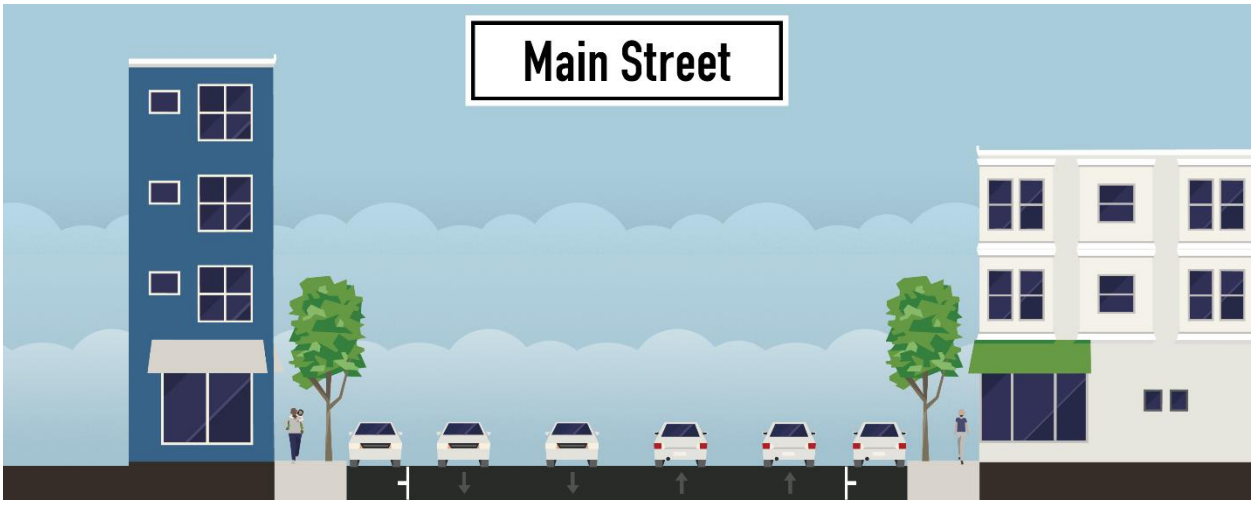


Figure 2: Proposed Main Street Design from 7th Street to 4th Street

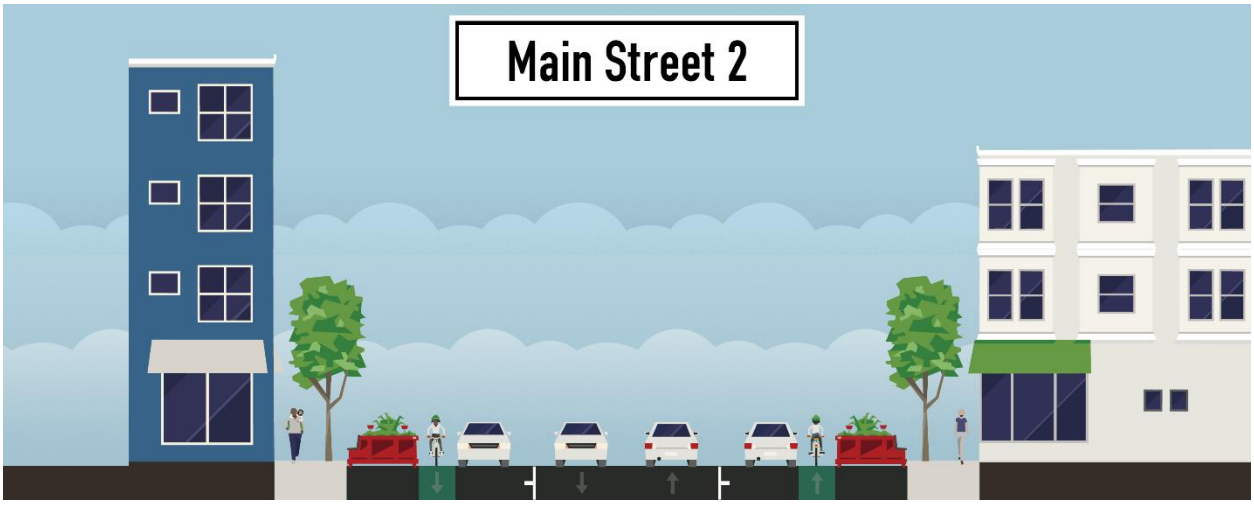
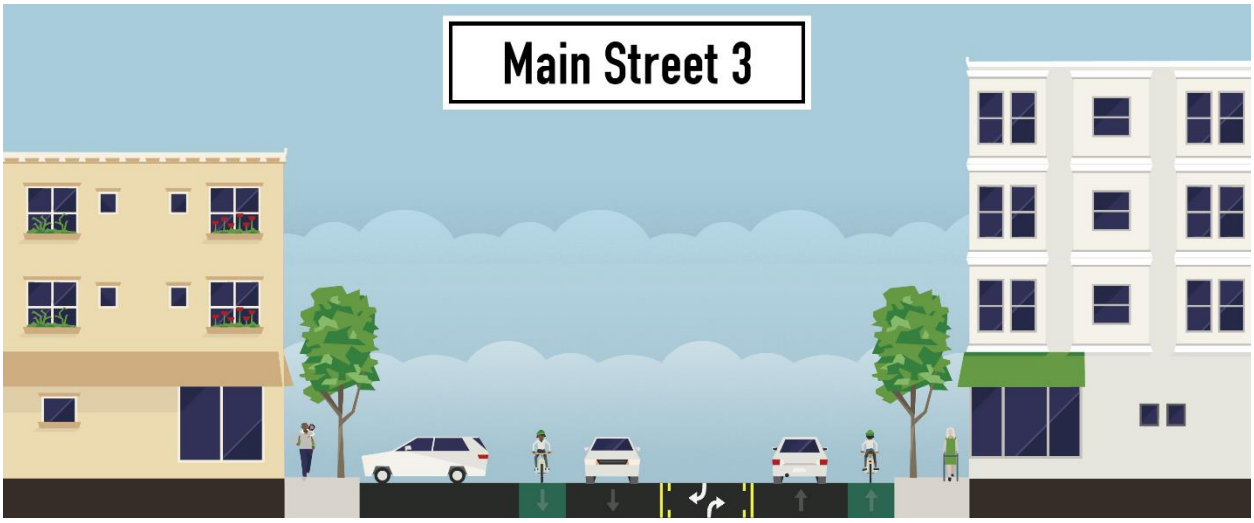


Figure 3: Proposed Main Street Design from 4th Street to 1st Street



Aerial Street Designs

Figure 4: Proposed Design from 3rd Street to 4th Street



Figure 5: Proposed Design from 5th Street to 6th Street

