



THE CAMPUS VILLAGE: TRANSPORTATION

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Objective

The Campus Village is a new community being constructed in northwest Lawrence with a intergenerational focus in mind. The site will be equipped with housing for students, athletes, retirement community members, and families.

The overall objective of this study was to evaluate the city's current transportation network and make recommendations on that network to better accommodate the needs of the new property.

Specifically, the goal was to revise and extend current bus routes to connect the Campus Village residents with the University of Kansas campus, downtown Lawrence, and other desired areas of town.

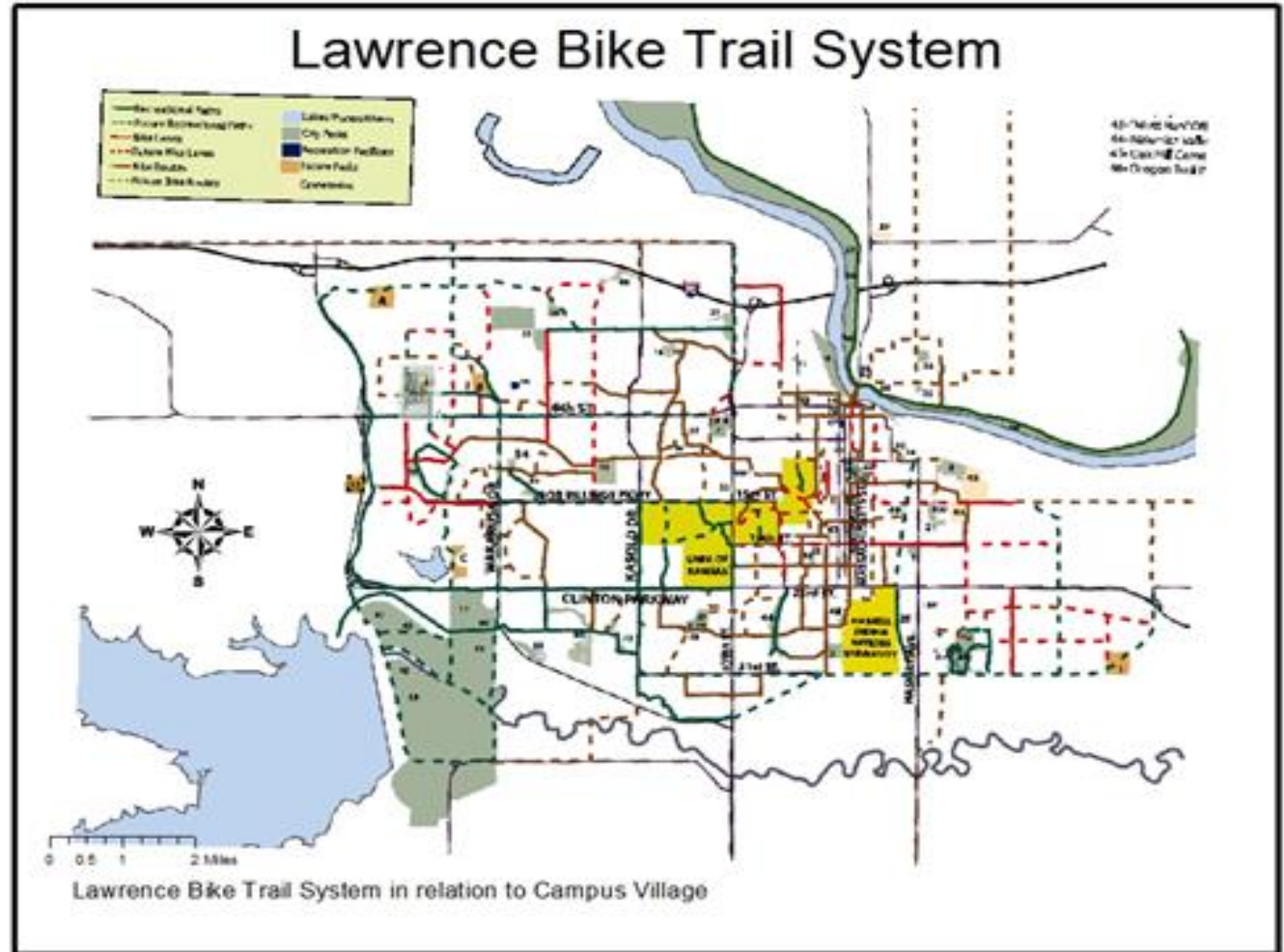
Methods

- Georeference site plans & bike trail map
- Add the shapefile of road networks
- Add Bus routes and stops to database
- Evaluate changes in bus route times - Network Analyst
- Assumptions



Results

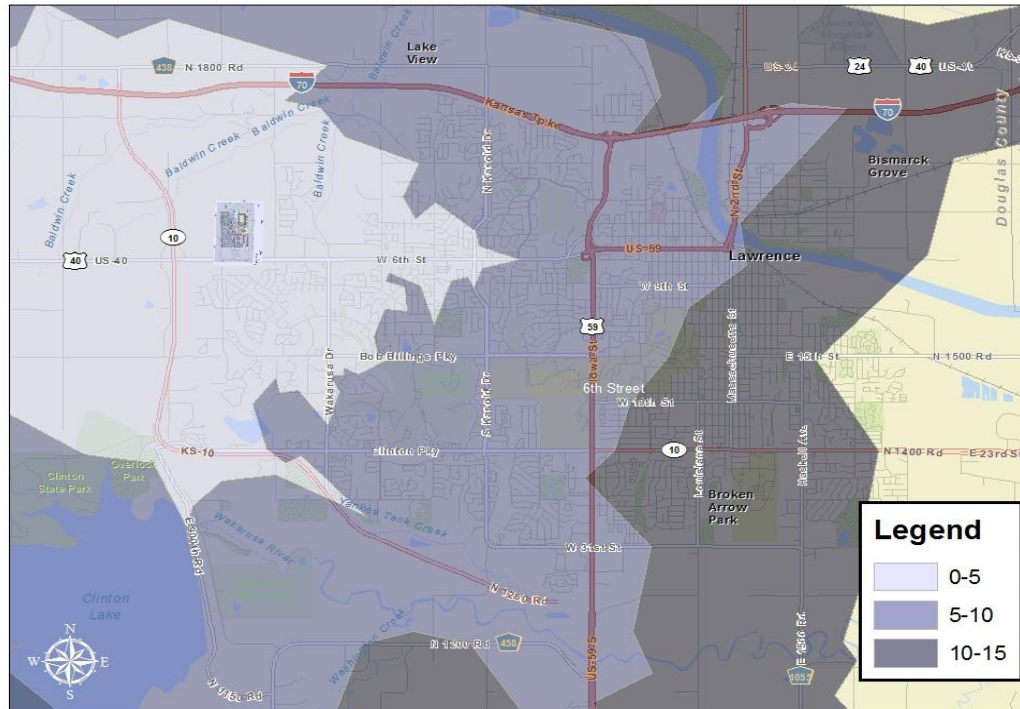
Bike Trails



Results

Driving Times from Campus Village

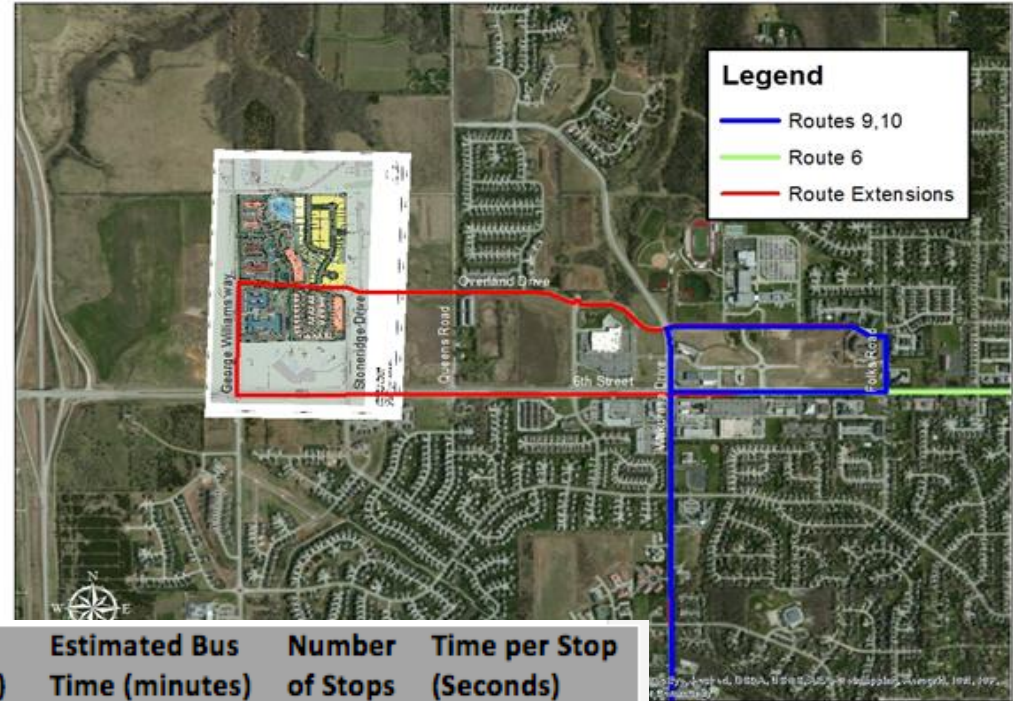
Driving Times from Campus Village (in minutes)



Results

Bus Route Extension

Route Extension into Campus village



Route	Length (Miles)	Avg. Driving time (minutes)	Route time increase (minutes)	Estimated Bus Time (minutes)	Number of Stops	Time per Stop (Seconds)
6	10.5	26.16		54	25	67
6 extended	12.6	29.84	3.69		27	54
9	15.4	32.20		51	36	31
9 extended	17.6	36.12	3.92		38	23
10	13.3	37.11		57	35	34
10 extended	15.4	40.83	3.71		37	26

Conclusions

- Bike trails are incorporated into the site location.
- The Campus Village is well integrated into the roads network.
- Extend routes 6 and 10
- Do not extend route 9

Real World Applications

- Bike trail plans have been incorporated into development plans for the site
- Lawrence Transit has since changed routes to offer a flex service that covers the site
 - ▣ More possible changes to come as area development continues