

Wakarusa Drive Reconstruction

Wakarusa & Inverness/Legends Intersection

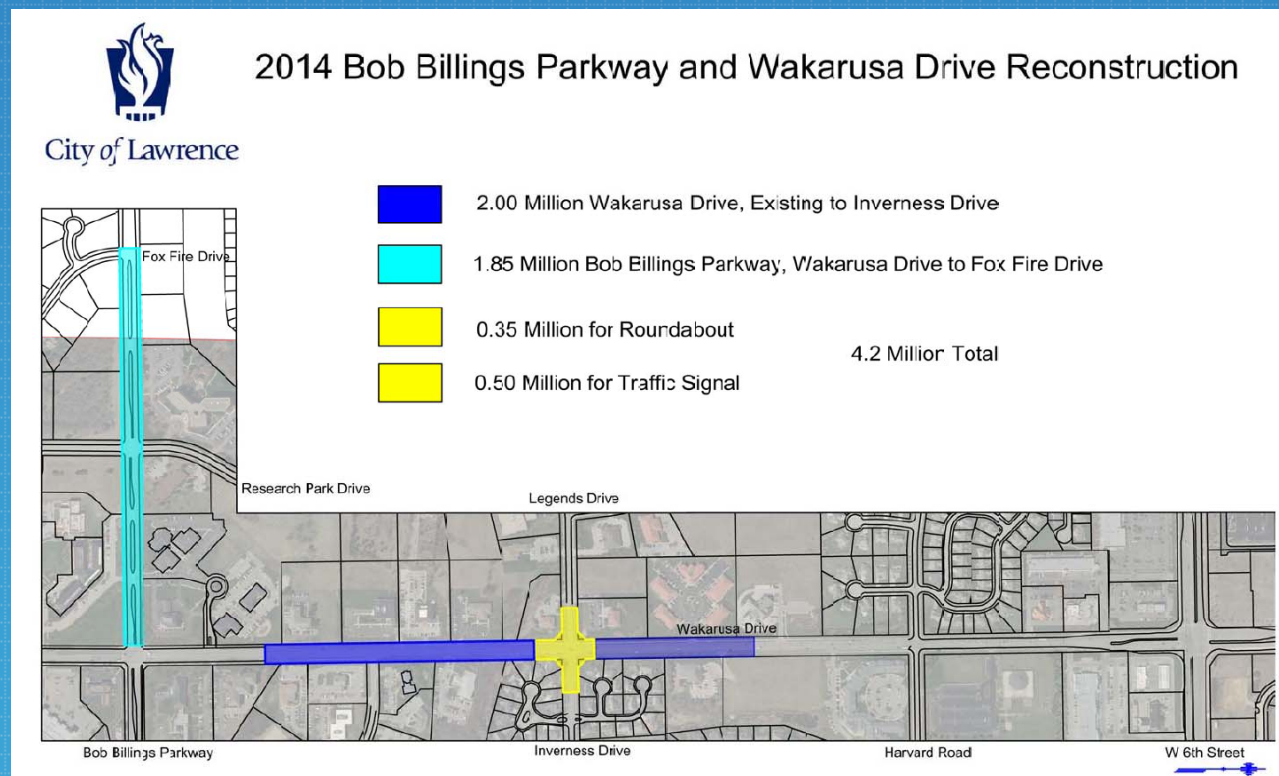




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2014 Wakarusa Drive Reconstruction Project

- 2014 Infrastructure Sales Tax Funds – 5 million total
- \$1.85 million Bob Billings Parkway Reconstruction (estimate)
- \$0.80 million 23rd & Iowa Reconstruction (estimate)
- \$2.35 million for Wakarusa Drive Reconstruction (estimate)

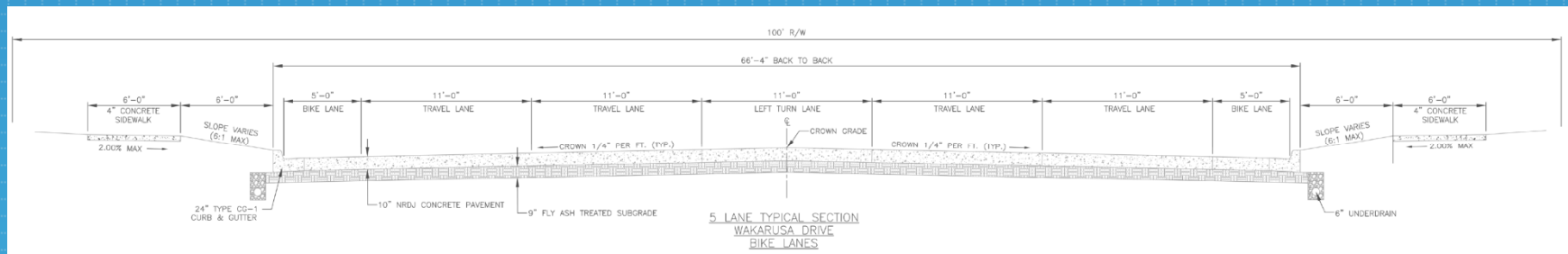




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2014 Wakarusa Drive Reconstruction Project

- Scope of project: Reconstruct pavement with concrete, add a center left turn lane, add bike lanes, add new: curb and gutter, storm sewer and sidewalks.
- Use same typical section used for 2013 Wakarusa project
- 5 11' Lanes with bike lanes and sidewalk



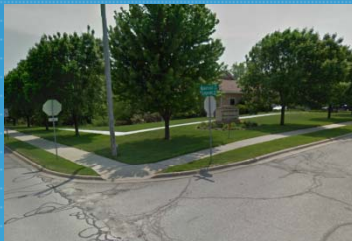
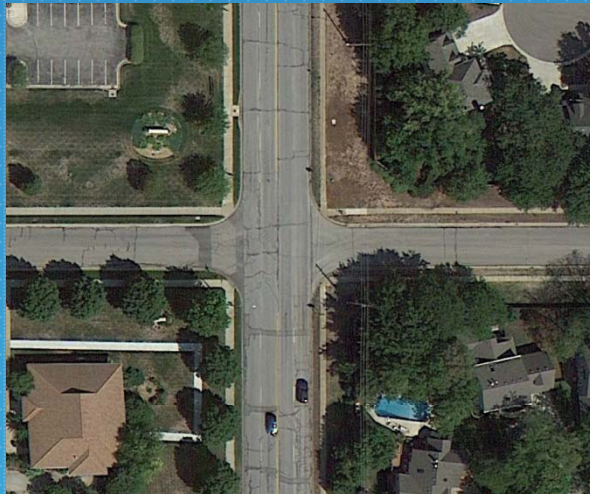


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2014 Wakarusa Drive Reconstruction Project

- Existing intersection of Wakarusa & Inverness/Legends 4 way stop
- West of Wakarusa Drive—Legends Drive Dental Center & Wakarusa Oral Surgery
- East of Wakarusa Drive—Residential
- Existing peak hour traffic & level of service

Northbound, 620 C; Southbound, 590 C;
Eastbound, 190, C; Westbound, 80, B





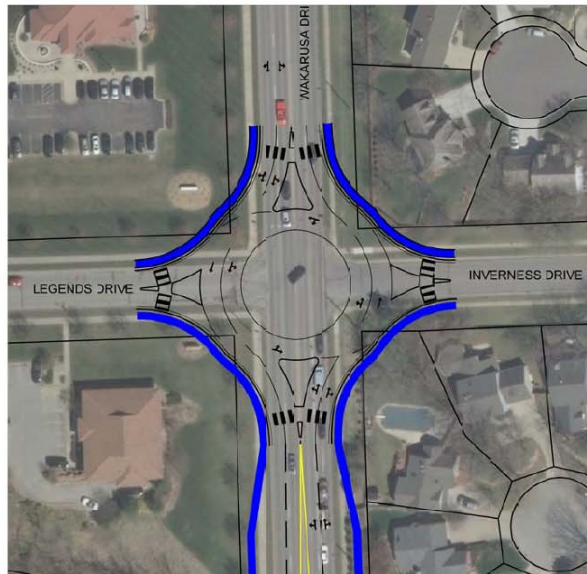
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2014 Wakarusa Drive Reconstruction Project

- Three options for the Wakarusa Drive & Inverness/Legends Intersection include a roundabout, traffic signal, or a four-way stop
- City staff is recommending a Roundabout

Wakarusa Drive & Legends Drive/Inverness Drive Intersection

Roundabout Option Layout



 Sidewalk

Traffic Signal Option Layout



 Additional pavement need for left turn lanes



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2014 Wakarusa Drive Reconstruction Project

- Traffic Signal
- Cost \$500,000 Traffic Signals & Widening on Inverness/Legends
- Additional pavement for left-turn lane needed on Inverness & Legends
- Level of service with Traffic Signal with current traffic volumes

Northbound, D; Southbound, D; Eastbound, A; Westbound, A





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2014 Wakarusa Drive Reconstruction Project

- Roundabout
- Benefits
- Configuration
- Bike Lanes
- Costs
- Examples

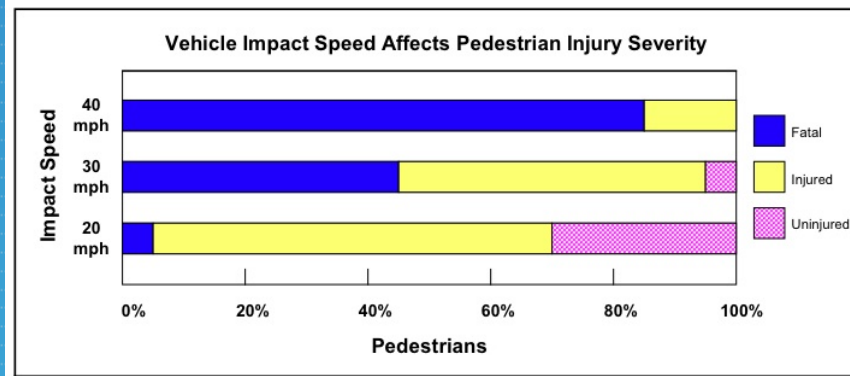




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2014 Wakarusa Drive Reconstruction Project

- Benefits of a roundabout
- Slower traffic speeds
- Less injury crashes
- Safer for pedestrians & bikes
- Move traffic efficiently
- In line with complete streets



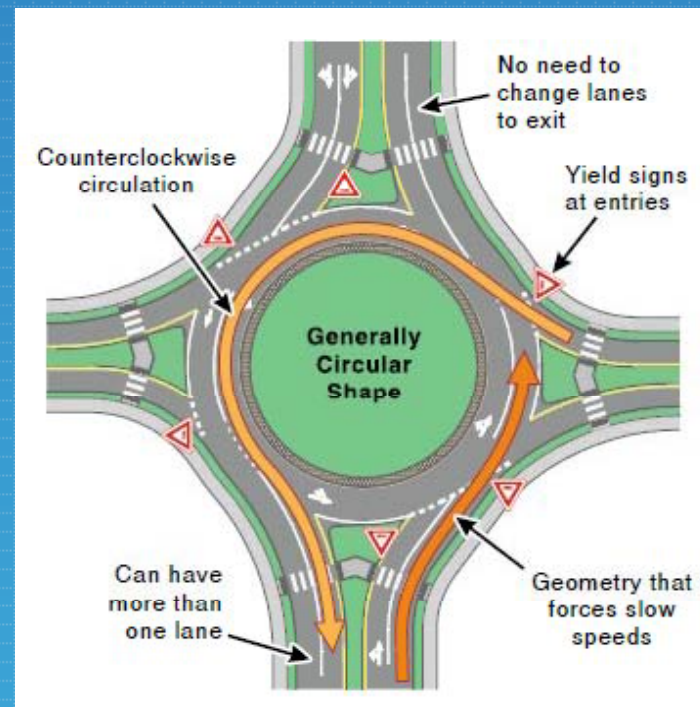


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- Two lanes on Wakarusa & one lane on Inverness/Legends
- Level of service with current traffic

Northbound, A; Southbound, A; Eastbound, A; Westbound, A





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2014 Wakarusa Drive Reconstruction Project

- Roundabouts with bike lanes
- Can exit bike lanes and ride bike as a vehicle in roundabout
- Can take ramp onto sidewalk and use crosswalks as a pedestrian
- An example is at O'Connell Road & E 25th Terrace

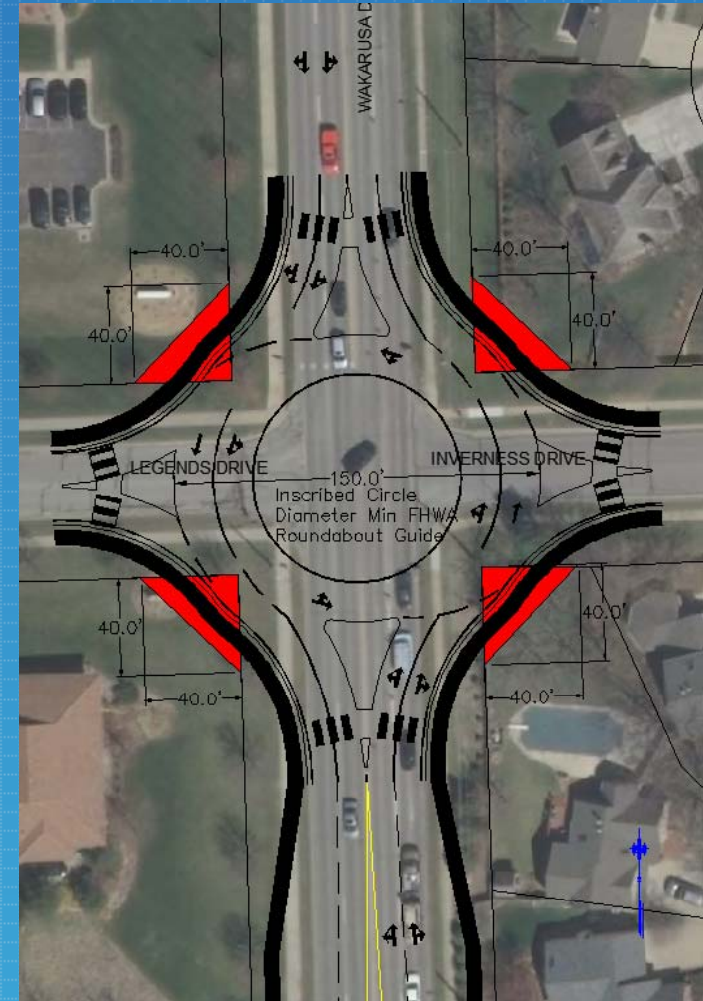




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2014 Wakarusa Drive Reconstruction Project

- Two lane roundabout the city would need to acquire ROW and pedestrian easements
- Cost \$350,000 plus property acquisition
- Inscribed Circle is 150'. Roundabouts Kasold Drive north of Peterson have an inscribed circle of 130'





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2014 Wakarusa Drive Reconstruction Project

- Example of roundabout with the same lane configuration in Olathe. Renner Blvd next to the Bass Pro Shop





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2014 Wakarusa Drive Reconstruction Project

- Other examples
- 37th & Wanamaker Road in Topeka
- Prairie Star Parkway & Gleason Road in Lenexa

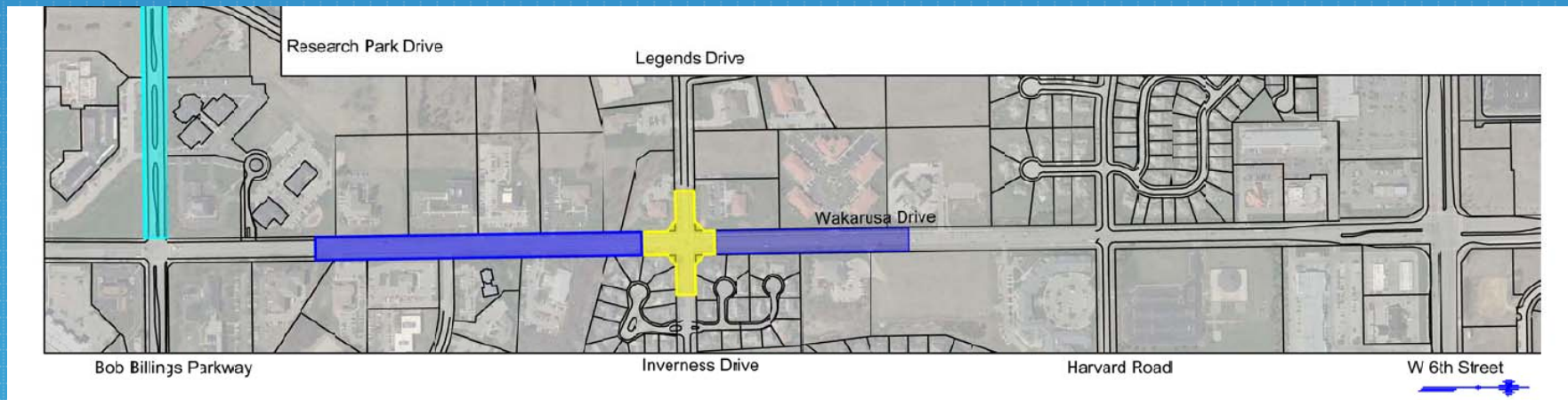




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2014 Wakarusa Drive Reconstruction Project

- Future consideration Wakarusa Drive & Harvard Road Intersection
- Currently a four way stop
- If a roundabout is constructed at Inverness/Legends Drive then a roundabout would likely be proposed at Harvard Road & Wakarusa Drive





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2014 Wakarusa Drive Reconstruction Project

Questions?

