



## Traffic Impact Analysis (TIA)

Topeka Planning Department  
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The purpose of a TIA is to determine what impact traffic will have on the existing and proposed roadway network, and what impact the existing and projected traffic will have on the proposed development. It will provide a credible basis for estimating roadway and on-site improvement requirements attributable to a particular project, and assess the compatibility of local transportation plans. The specific content of a TIA may vary depending upon the site, prevailing conditions, and safety considerations as expressed by the reviewing staff during the pre-application meeting, and shall conform to the recommended practice methods of the Institute of Transportation Engineers.

### A TIA is required when one or more of the following are applicable

- A. Site generates over 2,000 vehicles-trips per day
- B. Site generates over 200 vehicles-trips per peak hour
- C. Site generates over 100 vehicles-trips in the peak direction during the peak hour
- D. Primary trips generated by the site exceeds 10% of the existing volume of traffic on the street(s) providing access
- E. Any land use providing service to the motorists (e.g. drive-up window)
- F. Parking garages and off-street parking lots and facilities with at least 500 stalls for long-term parking or 100 stalls for short-term customer parking
- G. Convenience store with gas pumps

### Basic contents of the TIA:

- 1. Review of existing site conditions.
- 2. Site's trip generation and design hour volume data.
- 3. Trip distribution and traffic assignment. The TIA coverage will be determined by the Planning Department Staff in consultation with the City Traffic Engineer.
- 4. Existing and projected traffic volume information. Projected site traffic will be for full development. Base traffic on the street will be projected for the period of full development and for 20 years.
- 5. Capacity analysis for the period indicated in #4 above for all intersections, streets and driveways included up to arterial-arterial intersections in all directions around the proposed site.
- 6. Traffic accident history.
- 7. Internal circulation and parking.
- 8. Needs for pedestrians, bicyclists and public transit users.
- 9. Traffic operations, signalization and geometric improvements.
- 10. Summary of findings and recommendations.

### THRESHOLDS FOR APPROVAL OF THE TIA

**Intersections:** Minimum overall level of service "C", with no individual lane group movement higher than level of service "D".

**Vehicle Queues:** The stacking length of vehicles at the approach of a public street intersection or driveway should not impede the operation of other driveways and public streets.

**Location and Design Standards:** All proposed site and off-site improvements must meet the minimum acceptable thresholds as required in the City of Topeka Design Criteria Standards Section 1.2 and the Topeka-Shawnee County Transportation Plan 2015.