

Traffic Impact Analysis Requirement Checklist

Pre-analysis meeting

The developer and the registered engineer that will sign and seal the TIA must meet with the DOT&PF Regional Traffic & Safety engineer and Right-of-Way agent before beginning the TIA. At the meeting, the following will be determined:

- The design year (This is typically the buildout year or 10 years beyond the buildout year, depending on the development size and location)
- The study area
- Key intersections and key road segments to consider/evaluate in the TIA
- The projected area-wide traffic growth rate
- Level of Service (LOS) standards
- Other planned developments to consider
- Planned road improvements to consider
- Any other items of note regarding the TIA

Traffic Impact Analysis. Include the following:

Development Information

- Development description
- Land use intensity including square footage, types of land use, employees, etc.
- Proposed zoning changes or zoning variances
- Construction year, opening year, projected year for full buildout
- Map of the development, including traffic circulation and parking area
- Sight distance evaluation from access points
- Alternatives to the proposed location

Project Area Background

- Surrounding land zoning
- Surrounding land uses and site land use
- Adjacent development
- Traffic improvements already funded, programmed, or planned
- Other planned developments

Data Requirements

- Map of the study area street network
- Peak hour intersection turning movement counts for all key intersections

- Daily volume counts for all streets and roadways in the study area
- Number of lanes on the streets in the study area
- Intersection geometry information for all key intersections
- Traffic signal phasing and timing information for all key intersections
- 5 year crash history within the study area
- Sidewalks and other pedestrian facilities
- Bike lanes and other bicycle facilities
- Transit operation and facilities including pullouts, frequency of service and utilization

Traffic Forecasting

- Projected traffic to be generated by the development (Use the ITE Trip Generation Manual, latest version)
- Projected trip distribution, turning movements, and rationale for determining same
- Projected total traffic for the design year (base traffic + site traffic) at all key intersections and route segments within the study area
- Trip generation from other planned developments

Traffic Analysis

- Baseline LOS calculations for all key intersections and key road segments (For LOS computations, use the TRB Special Report 209, Highway Capacity Manual, latest version)

No-Build Alternative – Without Development

- Projected LOS calculations for all key intersections and key road segments for the opening date or the design year, as required
- Vehicle queue lengths (95th percentile) and available storage
- Pedestrian considerations, including applicable school walking routes
- Bicycle considerations
- Transit considerations
- Safety considerations for all key intersections and key road segments

Build Alternative – With Development

- Projected LOS calculations for all key intersections and key road segments for the opening date or the design year, as required
- Vehicle queue lengths (95th percentile) and available storage
- Pedestrian considerations, including applicable school walking routes

- Bicycle considerations
- Transit considerations
- Safety considerations for all key intersections and key road segments

Summary

- Summary of impacts

Mitigation

- Mitigation measure alternatives to address capacity, delay, pedestrian, bicycle, transit and safety issues caused by or exacerbated by the development
- Proposed mitigation measures
- Proposed improvements to development parking and circulation routes
- Mitigation measure affects (include projected LOS calculations and / or crash reduction factors as applicable)
- Conclusion

Typical Reporting Requirements:

- Submit electronic data/files compatible with Microsoft Office products, latest release of Autodesk AutoCAD, Trafficware Synchro Studio 7, and MacTrans HCS+