

Table 2 Traffic Study Assumptions (Detailed).

<i>Traffic Study Assumptions</i>	<i>Description</i>
1. Traffic study requirements	
De minimus	< = 1,200 gross daily trips
Traffic impact analysis (TIA)	> 1,200 gross daily trips
2. Methodology statement	
	Site location, Site Plan Trip gen (proposed land uses and sizes) Trip distribution, growth rate, analysis procedures defined
3. Study area	
Traffic impact analysis (TIA)	Intersections on roadways with 5% impact to the adopted service volume standard (defined by the FDOT Generalized Tables)
4. Analysis period	
Traffic impact analysis (TIA)	P.M. peak hours plus for office and industrial: a.m. peak hour for project traffic & turn lane calculations
5. Project Traffic	
Trip generation	
Internal capture	ITE Handbook, internal capture must be < 20%. For internal capture percentages greater than 20%, it must be documented in an engineering study and approved by the city.
Pass-by capture	ITE Handbook, unless documented by engineering study. Pass-by capture should be < 10% of total background traffic of adjacent roadway.
Trip distribution	
Traffic impact analysis (TIA)	Adopted Area model (CUBE model)
6. Existing conditions	
Intersection counts	Study intersection counts within 1 year of methodology
Peak season adjustments	FDOT peak season correction factor
Roadway counts	Study roadway counts within 1 year of methodology (roadways can be determined by averaging adjacent intersection counts)
Peak season adjustments	FDOT peak season correction factor
7. Background conditions	
Vested developments	DRIs or other large developments tracked by city
Area growth	Based upon historical data up to 5 years, where available

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<i>Traffic Study Assumptions</i>	<i>Description</i>
8. Vested improvements	
CIP improvements	Construction funded within 3 years
Development improvements	Development improvements within 3 years
9. Capacity analysis	
Signalized intersection analysis	HCS or synchro analysis of intersections
Defaults	
PHF	Intersection based PHF, consistent with counts (field measured). If a different PHF is to be used, then they are to be approved by the city prior to applying in the analysis.
Heavy vehicles	Percent heavy vehicles by approach if required by city
Clearance intervals	Controller settings, otherwise assume 4 seconds yellow, 2 seconds all red
Pedestrian intervals	Include at intersections where ped signals with walk phases on every cycle
Signal phasing	Controller settings or field measures
Los Standards	
Minimum movement LOS	LOS "E", LOS "F" with $v/c \leq 0.8$
Minimum approach LOS	LOS "E"
Minimum intersection LOS	LOS "D" (for state facilities, standards should comply with FDOT LOS standards)
Unsignalized intersection analysis	
Defaults	
Heavy vehicles	Percent heavy vehicles by approach if required by city
Los Standards	
Minimum movement LOS	LOS "E", LOS "F" with $v/c = .8$, can be field verified determined through delay study
Minimum approach LOS	LOS "E"
Minimum intersection LOS	LOS "D" at all-way stop-controlled intersections
Roadway analysis	
Analysis	
Generalized LOS analysis	FDOT generalized tables
Detailed arterial LOS analysis (signals ≤ 2 mi apart)	HCM arterial analysis (synchro, HCS)
Detailed highway LOS analysis (signals > 2 mi apart, 2-lane)	HCM two-lane highway analysis (synchro, HCS)

<i>Traffic Study Assumptions</i>	<i>Description</i>
Detailed highway LOS analysis (signals > 2 mi apart, 4-lane or greater)	HCM multi-lane highway analysis (synchro, HCS)
Los standards	
Minimum road LOS	LOS "D"
10. Transportation mitigation	
Roadway improvements	
Substandard roads	Consistent with city/Pasco County requirements
Intersection improvements	
Turn lane warrants	NCHRP 457
Turn lane improvements	
Deceleration distance	FDOT index 301
Storage distances	FDOT Plans Preparation Manual
Signalization	MUTCD warrant criteria
Timing & phasing improvements	Consistent with agency approval
Driveway improvements	
Turn lane warrants	NCHRP 457, unless required as condition of approval by city
Turn lane improvements	
Deceleration distances	FDOT index 301
Storage distances	FDOT Plans Preparation Manual
11. Documentation (report format)	
Comprehensive plan amendments	
Sections	
Introduction	Project site description and proposal changes
Project traffic	Trip generation and distribution
Study area	Intersections on roadways with 5% impact to the adopted service volume standard (defined by the FDOT generalized tables) and adjacent roadways and intersections.
Existing conditions	Existing roadway counts
Future conditions	Existing + background growth + project traffic conditions
Capacity analysis	Roadway analysis only
Transportation mitigation	Roadway improvements only
Conclusions	Project site description, analysis and mitigation summary
Figures	
Project traffic	
Existing conditions	

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<i>Traffic Study Assumptions</i>	<i>Description</i>
Future conditions	
Rezoning applications	
Sections	
Introduction	Project site description and proposal changes
Project traffic	Trip generation and distribution
Study area	Intersections on roadways with 5% impact to the adopted service volume standard (defined by the FDOT generalized tables)
Existing conditions	Existing roadway and intersection counts
Future conditions	Existing + project traffic conditions
Capacity analysis	Roadway and intersection analysis
Transportation mitigation	Intersection and roadway improvements only
Conclusions	Project site description, analysis and mitigation summary
Figures	
Project traffic	
Existing conditions	
Future conditions	
Site plan approval applications	
Sections	
Introduction	Project site description and proposal changes
Project traffic	Trip generation and distribution
Study area	Intersections on roadways with 5% impact to the adopted service volume standard (defined by the FDOT generalized tables)
Existing conditions	Existing roadway and intersection counts
Non-project conditions (background)	Existing + background growth (DRI and growth) conditions
Total traffic conditions	Background growth (DRI and growth) + project conditions
Capacity analysis	Roadway, intersection and driveway analysis
Transportation mitigation	Intersection and roadway improvements
Conclusions	Project site description, analysis and mitigation summary
Figures	
Project traffic	
Existing conditions	
Non-project conditions (background)	
Total traffic conditions	

(Ord. 998-08, passed 2-11-2008)