

Appendix E

Level of Service Criteria

The design team should coordinate with the Traffic and Safety Bureau for all traffic operational analyses conducted for the project and additional traffic operational information that may be needed for the design. The objective of conducting traffic operations analyses is to design the highway mainline and intersections to accommodate the selected design hourly volume (DHV) at the selected level of service (LOS). Appendix E provides the minimum LOS Criteria for various types of facilities. The detailed calculations, highway factors and methodologies are presented in the *Highway Capacity Manual (HCM)*. During the analysis, the design service volume (or flow rate) of the facility is calculated. For various types of highway facilities, the *HCM* documents the measures of effectiveness that should be used in capacity analyses to determine level of service. For each facility type, the *HCM* provides the analytical tools necessary to calculate the numerical value of its respective measure of effectiveness. Additional design criteria for each facility type are presented in the *MDT Geometric Design Standards*.

Type of Facility	Level of Service Targets
Rural	
Freeways (NHS — Interstate)	B
Principal Arterials (NHS — Non-Interstate)	Level/Rolling: B; Mountainous: C
Minor Arterials	Level/Rolling: B; Mountainous: C
Collector Roads	C
Urban	
Freeways (NHS — Interstate)	B
Principal Arterials (NHS — Non-Interstate)	C
Minor Arterials	C
Collector Roads	D