

## Freeway, Expressway, Boulevard Inputs

CTP Terminology	HCM Terminology	LOS D Criteria	Median Type	Traffic Signals/Mile	HCM Default FFS	Interchanges/Mile			
<b>Freeway</b>									
Urban	Freeway	< 35 pc/per mile/per lane	Divided	None	65	1.0			
Suburban	Freeway	< 35 pc/per mile/per lane	Divided	None	70	0.5			
Rural	Freeway	< 35 pc/per mile/per lane	Divided	None	70	0.5			
CTP Terminology	HCM Terminology	LOS D Criteria	Median Type	Traffic Signals/Mile	HCM Default FFS	Access Points/Mile			
<b>Expressway</b>									
Urban	Multi-lane Highway	< 35 pc/per mile/per lane	Divided	None/ < 0.5 mile	60	15			
Suburban	Multi-lane Highway	< 35 pc/per mile/per lane	Divided	None/ < 0.5 mile	65	10			
Rural	Multi-lane Highway	< 35 pc/per mile/per lane	Divided	None/ < 0.5 mile	65	5			
CTP Terminology	HCM Terminology	LOS D Criteria	Median Type	Traffic Signals/Mile	HCM Default FFS	Arrival Type	% Left Turn	g/C Ratio	Cycle Length
<b>Boulevards 55 MPH</b>									
Urban	Urban Arterial I	ATS > 21 MPH	Divided	1.5	50	3	15	0.6	200
Suburban	Urban Arterial I	ATS > 21 MPH	Divided	1.0	50	4	10	0.6	200
Rural	Urban Arterial I	ATS > 21 MPH	Divided	0.5	50	5	10	0.6	200
<b>Boulevards 45 MPH</b>									
Urban	Urban Arterial II	ATS > 17 MPH	Divided	3.0	40	3	20	0.55	150
Suburban	Urban Arterial II	ATS > 17 MPH	Divided	1.5	40	4	15	0.55	150
Rural	Urban Arterial I	ATS > 17 MPH	Divided	0.5	40	4, 5	15	0.6	200
<b>Boulevards 35 MPH</b>									
Urban	Urban Arterial IV	ATS > 14 MPH	Divided	6.0	30	4	20	0.42	120
Suburban	Urban Arterial II	ATS > 14 MPH	Divided	3.0	35	3	15	0.55	150
<b>Boulevards 25 MPH</b>									
Urban	Urban Arterial IV	ATS > 9 MPH	Divided	8.0	30	4	20	0.42	120

pc = passenger cars  
ATS = Average Travel Speed

## Appendix G: 4 and 5 Lane Major Thoroughfare Inputs

CTP Terminology	HCM Terminology	LOS D Criteria	Median Type	Traffic Signals/Mile	HCM Default FFS	Arrival Type	% Left Turn	g/C Ratio	Cycle Length
<b>4-Lane Major Thoroughfares 55 MPH</b>									
Urban	Urban Arterial I	ATS > 21 MPH	Undivided	2	50	3	5	0.6	200
Suburban	Urban Arterial I	ATS > 21 MPH	Undivided	1.5	50	3	5	0.6	200
Rural	Urban Arterial I	ATS > 21 MPH	Undivided	1	50	3	5	0.6	200
<b>4-Lane Major Thoroughfares 45 MPH</b>									
Urban	Urban Arterial I	ATS > 17 MPH	Undivided	3	40	3	10	0.6	200
Suburban	Urban Arterial II	ATS > 17 MPH	Undivided	2	40	3	10	0.55	150
Rural	Urban Arterial II	ATS > 17 MPH	Undivided	1	40	3	10	0.55	150
<b>4-Lane Major Thoroughfares 35 MPH</b>									
Urban	Urban Arterial IV	ATS > 14 MPH	Undivided	6	35	4	8	0.42	120
Suburban	Urban Arterial II	ATS > 14 MPH	Undivided	3	35	3	5	0.55	150
<b>4-Lane Major Thoroughfares 25 MPH</b>									
Urban	Urban Arterial IV	ATS > 9 MPH	Undivided	16	30	3	8	0.42	120
<b>4-Lane Major Thoroughfares with Center Left-Turn Lane 55 MPH</b>									
Urban	Urban Arterial I	ATS > 21 MPH	Undivided	2	50	4	10	0.6	200
Suburban	Urban Arterial I	ATS > 21 MPH	Undivided	1.5	50	4	10	0.6	200
Rural	Urban Arterial I	ATS > 21 MPH	Undivided	1	50	4	10	0.6	200
<b>4-Lane Major Thoroughfares with Center Left-Turn Lane 45 MPH</b>									
Urban	Urban Arterial I	ATS > 17 MPH	Undivided	3	40	3	10	0.6	200
Suburban	Urban Arterial II	ATS > 17 MPH	Undivided	2	40	4	10	0.55	150
Rural	Urban Arterial II	ATS > 17 MPH	Undivided	1	40	4	10	0.55	150
<b>4-Lane Major Thoroughfares with Center Left-Turn Lane 35 MPH</b>									
Urban	Urban Arterial IV	ATS > 14 MPH	Undivided	6	35	3	16	0.42	120
Suburban	Urban Arterial II	ATS > 14 MPH	Undivided	3	35	3	10	0.55	150
<b>4-Lane Major Thoroughfares with Center Left-Turn Lane 25 MPH</b>									
Urban	Urban Arterial IV	ATS > 9 MPH	Undivided	6	30	4	16	0.42	120

ATS = Average Travel Speed

## Appendix G: 2 and 3 Lane Major Thoroughfare Inputs

CTP Terminology	HCM Terminology	LOS D Criteria	Median Type	Traffic Signals/Mile	HCM Default FFS	Arrival Type	% Left Turn	g/C Ratio	Cycle Length
<b>2-Lane Major Thoroughfares 55 MPH</b>									
Urban	Urban Arterial I	ATS > 21 MPH	Undivided	2	50	3	5	0.6	200
Suburban	Urban Arterial I	ATS > 21 MPH	Undivided	1.5	50	3	5	0.6	200
Rural	Urban Arterial I	ATS > 21 MPH	Undivided	1	50	3	5	0.6	200
<b>2-Lane Major Thoroughfares 45 MPH</b>									
Urban	Urban Arterial I	ATS > 17 MPH	Undivided	3	40	3	5	0.6	200
Suburban	Urban Arterial II	ATS > 17 MPH	Undivided	2	40	3	5	0.55	150
Rural	Urban Arterial II	ATS > 17 MPH	Undivided	1	40	3	5	0.55	150
<b>2-Lane Major Thoroughfares 35 MPH</b>									
Urban	Urban Arterial IV	ATS > 14 MPH	Undivided	6	35	3	8	0.42	120
Suburban	Urban Arterial II	ATS > 14 MPH	Undivided	3	35	3	5	0.55	150
<b>2-Lane Major Thoroughfares 25 MPH</b>									
Urban	Urban Arterial IV	ATS > 9 MPH	Undivided	6	30	4	8	0.42	120
<b>2-Lane Major Thoroughfares with Center Left-Turn Lane 55 MPH</b>									
Urban	Urban Arterial I	ATS > 21 MPH	Undivided	2	50	3	10	0.6	200
Suburban	Urban Arterial I	ATS > 21 MPH	Undivided	1.5	50	3	10	0.6	200
Rural	Urban Arterial I	ATS > 21 MPH	Undivided	1	50	3	10	0.6	200
<b>2-Lane Major Thoroughfares with Center Left-Turn Lane 45 MPH</b>									
Urban	Urban Arterial I	ATS > 17 MPH	Undivided	3	40	3	10	0.6	200
Suburban	Urban Arterial II	ATS > 17 MPH	Undivided	2	40	3	10	0.55	150
Rural	Urban Arterial II	ATS > 17 MPH	Undivided	1	40	3	10	0.55	150
<b>2-Lane Major Thoroughfares with Center Left-Turn Lane 35 MPH</b>									
Urban	Urban Arterial IV	ATS > 14 MPH	Undivided	6	35	3	20	0.42	120
Suburban	Urban Arterial II	ATS > 14 MPH	Undivided	3	35	3	10	0.55	150
<b>2-Lane Major Thoroughfares with Center Left-Turn Lane 25 MPH</b>									
Urban	Urban Arterial IV	ATS > 9 MPH	Undivided	6	30	4	20	0.42	120

ATS = Average Travel Speed

## Appendix G: Rural 2-Lane Highways (Class I) Inputs

CTP Terminology	HCM Terminology	LOS D Criteria	Truck Percentage	No Passing Zone	Shoulder Width	Access Points/Mile
<b>Coastal Rural 2-Lane Highway (Class I)</b>						
Minimum	2-Lane Highway (Class I)	ATS > 40 MPH	15%	60%	2, 3	20
Standard	2-Lane Highway (Class I)	ATS > 40 MPH	10%	40%	4, 5	15
Maximum	2-Lane Highway (Class I)	ATS > 40 MPH	5%	20%	6+	10
<b>Piedmont Rural 2-Lane Highway (Class I)</b>						
Minimum	2-Lane Highway (Class I)	ATS > 40 MPH	15%	70%	2, 3	20
Standard	2-Lane Highway (Class I)	ATS > 40 MPH	10%	50%	4, 5	15
Maximum	2-Lane Highway (Class I)	ATS > 40 MPH	5%	30%	6+	10
<b>Mountains LEVEL Rural 2-Lane Highway (Class I)</b>						
Minimum	2-Lane Highway (Class I)	ATS > 40 MPH	15%	80%	2, 3	20
Standard	2-Lane Highway (Class I)	ATS > 40 MPH	10%	60%	4, 5	15
Maximum	2-Lane Highway (Class I)	ATS > 40 MPH	5%	40%	6+	10
<b>Mountains ROLLING Rural 2-Lane Highway (Class I)</b>						
Minimum	2-Lane Highway (Class I)	ATS > 40 MPH	15%	80%	2, 3	20
Standard	2-Lane Highway (Class I)	ATS > 40 MPH	10%	60%	4, 5	15
Maximum	2-Lane Highway (Class I)	ATS > 40 MPH	5%	40%	6+	10

ATS = Average Travel Speed