

Appendix K2-10
LAX SPECIFIC PLAN AMENDMENT STUDY

Caltrans Mainline Analysis

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Table 1
BASELINE (2010) WITH ALTERNATIVE 1-2 LEVEL OF SERVICE ANALYSIS
HCM 2000 ANALYSIS FOR KEY FREEWAY MAINLINE MERGE/DIVERGE JUNCTIONS

Freeway Mainline	Type of Ramp	BASELINE (2010) WITHOUT ALTERNATIVE				BASELINE (2010) WITH ALT 1-2			
		AM		PM		AM		PM	
		Density (pcplpm)	LOS	Density (pcplpm)	LOS	Density (pcplpm)	LOS	Density (pcplpm)	LOS
I-105 WB	Sepulveda Boulevard Off-Ramp	25	C	29	D	26	C	29	D
I-405 NB	La Tijera Boulevard On-Ramp	31	D	28	C	32	D	28	C
I-405 SB	La Tijera Boulevard Off-Ramp	25	C	29	D	26	C	29	D

Table 2
BASELINE (2010) WITH ALTERNATIVE 3 LEVEL OF SERVICE ANALYSIS
HCM 2000 ANALYSIS FOR KEY FREEWAY MAINLINE MERGE/DIVERGE JUNCTIONS

Freeway Mainline	Type of Ramp	BASELINE (2010) WITHOUT ALTERNATIVE				BASELINE (2010) WITH ALT 3			
		AM		PM		AM		PM	
		Density (pcplpm)	LOS	Density (pcplpm)	LOS	Density (pcplpm)	LOS	Density (pcplpm)	LOS
I-105 WB	Sepulveda Boulevard Off-Ramp	25	C	29	D	26	C	30	D
I-405 NB	La Tijera Boulevard On-Ramp	31	D	28	C	32	D	28	D
I-405 SB	La Tijera Boulevard Off-Ramp	25	C	29	D	26	C	30	D

Table 3
BASELINE (2010) WITH PROJECT ALTERNATIVE 4 LEVEL OF SERVICE ANALYSIS
HCM 2000 ANALYSIS FOR KEY FREEWAY MAINLINE MERGE/DIVERGE JUNCTIONS

Freeway Mainline	Type of Ramp	BASELINE (2010) WITHOUT ALTERNATIVE				BASELINE (2010) WITH ALT 4			
		AM		PM		AM		PM	
		Density (pcplpm)	LOS	Density (pcplpm)	LOS	Density (pcplpm)	LOS	Density (pcplpm)	LOS
I-105 WB	Sepulveda Boulevard Off-Ramp	25	C	29	D	26	C	29	D
I-405 NB	La Tijera Boulevard On-Ramp	31	D	28	C	32	D	28	C
I-405 SB	La Tijera Boulevard On-Ramp	25	C	29	D	26	C	29	D

Table 4
BASELINE (2010) WITH PROJECT ALTERNATIVES 8 AND 9 LEVEL OF SERVICE ANALYSIS
HCM 2000 ANALYSIS FOR KEY FREEWAY MAINLINE MERGE/DIVERGE JUNCTIONS

Freeway Mainline	Type of Ramp	BASELINE (2010) WITHOUT ALTERNATIVE				BASELINE (2010) WITH ALTS 8 & 9			
		AM		PM		AM		PM	
		Density (pcplpm)	LOS	Density (pcplpm)	LOS	Density (pcplpm)	LOS	Density (pcplpm)	LOS
I-105 WB	Sepulveda Boulevard Off-Ramp	25	C	29	D	26	C	29	D
I-405 NB	La Tijera Boulevard On-Ramp	31	D	28	C	32	D	28	C
I-405 SB	La Tijera Boulevard Off-Ramp	25	C	29	D	26	C	29	D

Table 5
FUTURE (2025) WITH ALTERNATIVE 1-2 LEVEL OF SERVICE ANALYSIS
HCM 2000 ANALYSIS FOR KEY FREEWAY MAINLINE MERGE/DIVERGE JUNCTIONS

Freeway Mainline	Type of Ramp	FUTURE BASELINE (2025) WITHOUT ALTERNATIVE				FUTURE BASELINE (2025) WITH ALT 1-2			
		AM		PM		AM		PM	
		Density (pcplpm)	LOS	Density (pcplpm)	LOS	Density (pcplpm)	LOS	Density (pcplpm)	LOS
I-105 WB	Sepulveda Boulevard Off-Ramp	28	D	31	D	29	D	32	D
I-405 NB	La Tijera Boulevard On-Ramp	34	D	31	D	**	F	31	D
I-405 SB	La Tijera Boulevard Off-Ramp	28	D	31	D	29	D	32	D

* The density can not be calculated because the demand exceeds the capacity of the mainline or ramp.

Table 6
FUTURE (2025) WITH ALTERNATIVE 3 LEVEL OF SERVICE ANALYSIS
HCM 2000 ANALYSIS FOR KEY FREEWAY MAINLINE MERGE/DIVERGE JUNCTIONS

Freeway Mainline	Type of Ramp	FUTURE BASELINE (2025) WITHOUT ALTERNATIVE				FUTURE BASELINE (2025) WITH ALT 3			
		AM		PM		AM		PM	
		Density (pcplpm)	LOS	Density (pcplpm)	LOS	Density (pcplpm)	LOS	Density (pcplpm)	LOS
I-105 WB	Sepulveda Boulevard Off-Ramp	28	D	31	D	29	D	32	D
I-405 NB	La Tijera Boulevard On-Ramp	34	D	31	D	*	F	31	D
I-405 SB	La Tijera Boulevard Off-Ramp	28	D	31	D	29	D	32	D

* The density can not be calculated because the demand exceeds the capacity of the mainline or ramp.

Table 7
FUTURE (2025) WITH ALTERNATIVE 4 LEVEL OF SERVICE ANALYSIS
HCM 2000 ANALYSIS FOR KEY FREEWAY MAINLINE MERGE/DIVERGE JUNCTIONS

Freeway Mainline	Type of Ramp	FUTURE BASELINE (2025) WITHOUT ALTERNATIVE				FUTURE BASELINE (2025) WITH ALT 4			
		AM		PM		AM		PM	
		Density (pcplpm)	LOS	Density (pcplpm)	LOS	Density (pcplpm)	LOS	Density (pcplpm)	LOS
I-105 WB	Sepulveda Boulevard Off-Ramp	28	D	31	D	29	D	32	D
I-405 NB	La Tijera Boulevard On-Ramp	34	D	31	D	34	D	31	D
I-405 SB	La Tijera Boulevard Off-Ramp	28	D	31	D	29	D	32	D

Table 8
FUTURE (2025) WITH ALTERNATIVES 8 AND 9 LEVEL OF SERVICE ANALYSIS
HCM 2000 ANALYSIS FOR KEY FREEWAY MAINLINE MERGE/DIVERGE JUNCTIONS

Freeway Mainline	Type of Ramp	FUTURE BASELINE (2025) WITHOUT ALTERNATIVE				FUTURE BASELINE (2025) WITH PROJECT ALTS 8 & 9			
		AM		PM		AM		PM	
		Density (pcplpm)	LOS	Density (pcplpm)	LOS	Density (pcplpm)	LOS	Density (pcplpm)	LOS
I-105 WB	Sepulveda Boulevard Off-Ramp	28	D	31	D	29	D	32	D
I-405 NB	La Tijera Boulevard On-Ramp	34	D	31	D	*	F	31	D
I-405 SB	La Tijera Boulevard Off-Ramp	28	D	31	D	29	D	32	D

* The density can not be calculated because the demand exceeds the capacity of the mainline or ramp.