

Appendix K2-9
LAX SPECIFIC PLAN AMENDMENT STUDY

Caltrans HCM Ramp Intersection Analysis

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**Table 1
BASELINE (2010) WITH ALTERNATIVE 1-2 LEVEL OF SERVICE ANALYSIS
HIGHWAY CAPACITY MANUAL (HCM) ANALYSIS FOR KEY RAMP INTERSECTIONS**

INT #	INTERSECTION	JURISDICTION	BASELINE (2010) WITHOUT ALTERNATIVE						BASELINE (2010) WITH ALT 1-2					
			AM		MD		PM		AM		MD		PM	
			Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS
39	I-405 Northbound Ramps & Century Boulevard	LA County	12	B	46	D	14	B	13	B	54	D	16	B
58	La Cienega Boulevard & Florence Avenue	LA County	44	D	48	D	87	F	54	D	54	D	93	F
73	Nash Street/I-105 Westbound Ramps & Imperial Highway	LA County	35	C	10	A	9	A	36	D	10	A	9	A
74	I-105 Ramps (e/o Aviation Boulevard) & Imperial Highway	LA County	2	A	5	A	6	A	2	A	5	A	6	A
83	I-405 Northbound Ramps & Jefferson Boulevard	LA County	21	C	22	C	54	D	20	C	21	C	46	D
84	I-405 Southbound Ramps & Jefferson Boulevard	City of LA	22	C	23	C	25	C	22	C	23	C	25	C
96	La Cienega Boulevard & I-405 Southbound Ramps (n/o Century Boulevard)	City of LA	0	A	0	A	1	A	34	C	34	C	51	D
97	La Cienega Boulevard & I-405 Southbound Ramps (s/o Century Boulevard)	City of LA	11	B	13	B	10	A	11	B	13	B	10	A
98	La Cienega Boulevard & I-405 Southbound Ramps (n/o Imperial Highway)	Caltrans/City of LA	9	A	10	A	8	A	8	A	7	A	5	A
102	I-405 Northbound Ramps & La Tijera Boulevard	Inglewood/City of LA	13	B	20	B	12	B	13	B	30	C	12	B
103	I-405 Southbound Ramps & La Tijera Boulevard	Inglewood	21	C	25	C	23	C	21	C	25	C	24	C
112	Lincoln Boulevard & SR 90 Ramps	Inglewood	9	A	8	A	9	A	9	A	8	A	9	A
115	Ash Avenue & Manchester Avenue	Inglewood/City of LA	19	B	18	B	19	B	19	B	18	B	19	B
118	Sawtelle Boulevard & Matteson Street/I-405 Southbound Ramps	City of LA	51	D	51	D	43	D	52	D	50	D	44	D
124	Prairie Avenue & West 112th Street/I-105 Off-Ramp	El Segundo	12	B	16	B	17	B	11	B	16	B	17	B
134	Sepulveda Boulevard & I-405 Northbound On-/Off-Ramps	City of LA	74	E	28	C	73	E	59	E	23	C	88	F
139	Sepulveda Boulevard & I-105 Westbound Ramps (n/o Imperial Highway)	Caltrans/Inglewood	12	B	65	E	78	E	12	B	63	E	79	E
170	I-110 Northbound Ramps & Manchester Avenue	El Segundo/Hawthorne/Manhatta	18	B	18	B	18	B	18	B	18	B	18	B
198	Flower Street (near I-110 Southbound Ramps) & Florence Avenue	City of LA	17	B	16	B	19	B	17	B	16	B	21	C
199	Grand Avenue (near I-110 Northbound Ramps) & Florence Avenue	El Segundo/LA County	38	D	35	D	55	D	35	C	31	C	50	D
200	I-110 Southbound Ramps & Manchester Avenue	Caltrans/City of LA/LA County	24	C	18	B	22	C	28	C	18	B	23	C

Source: Fehr & Peers, 2012.

Table 2
BASELINE (2010) WITH PROJECT ALTERNATIVE 3 LEVEL OF SERVICE ANALYSIS
HIGHWAY CAPACITY MANUAL (HCM) ANALYSIS FOR KEY RAMP INTERSECTIONS

INT #	INTERSECTION	JURISDICTION	BASELINE (2010) WITHOUT ALTERNATIVE						BASELINE (2010) WITH ALT 3					
			AM		MD		PM		AM		MD		PM	
			Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS
39	I-405 Northbound Ramps & Century Boulevard	Caltrans/Inglewood	12	B	46	D	14	B	13	B	44	D	23	C
58	La Cienega Boulevard & Florence Avenue	Inglewood	44	D	48	D	87	F	*	F	59	E	*	F
73	Nash Street/I-105 Westbound Ramps & Imperial Highway	Caltrans/El Segundo/City of LA	35	C	10	A	9	A	34	C	10	A	12	B
74	I-105 Ramps (e/o Aviation Boulevard) & Imperial Highway	Caltrans/City of LA	2	A	5	A	6	A	*	F	85	F	*	F
83	I-405 Northbound Ramps & Jefferson Boulevard	Caltrans/Culver City/City of LA	21	C	22	C	54	D	20	C	21	C	47	D
84	I-405 Southbound Ramps & Jefferson Boulevard	Caltrans/Culver City/City of LA	22	C	23	C	25	C	21	C	23	C	31	C
96	La Cienega Boulevard & I-405 Southbound Ramps (n/o Century Boulevard)	Caltrans/Inglewood/City of LA	0	A	0	A	1	A	1	A	0	A	0	A
97	La Cienega Boulevard & I-405 Southbound Ramps (s/o Century Boulevard)	Caltrans/City of LA/LA County	11	B	13	B	10	A	11	B	14	B	8	A
98	La Cienega Boulevard & I-405 Southbound Ramps (n/o Imperial Highway)	Caltrans/City of LA/LA County	9	A	10	A	8	A	5	A	3	A	6	A
102	I-405 Northbound Ramps & La Tijera Boulevard	Caltrans/City of LA	13	B	20	B	12	B	13	B	25	C	27	C
103	I-405 Southbound Ramps & La Tijera Boulevard	Caltrans/City of LA	21	C	25	C	23	C	23	C	35	C	27	C
112	Lincoln Boulevard & SR 90 Ramps	Caltrans/City of LA	9	A	8	A	9	A	9	A	8	A	15	B
115	Ash Avenue & Manchester Avenue	Caltrans/Inglewood	19	B	18	B	19	B	19	B	18	B	26	C
118	Sawtelle Boulevard & Matteson Street/I-405 Southbound Ramps	Caltrans/Culver City	51	D	51	D	43	D	52	D	50	D	81	F
124	Prairie Avenue & West 112th Street/I-105 Off-Ramp	Caltrans/Inglewood	12	B	16	B	17	B	13	B	18	B	23	C
134	Sepulveda Boulevard & I-405 Northbound On-/Off-Ramps	Caltrans/Culver City	74	E	28	C	73	E	70	E	25	C	97	F
139	Sepulveda Boulevard & I-105 Westbound Ramps (n/o Imperial Highway)	Caltrans/City of LA	12	B	65	E	78	E	13	B	74	E	84	F
170	I-110 Northbound Ramps & Manchester Avenue	Caltrans/City of LA	18	B	18	B	18	B	18	B	18	B	22	C
198	Flower Street (near I-110 Southbound Ramps) & Florence Avenue	Caltrans/City of LA	17	B	16	B	19	B	17	B	16	B	26	C
199	Grand Avenue (near I-110 Northbound Ramps) & Florence Avenue	Caltrans/City of LA	38	D	35	D	55	D	30	C	32	C	84	F
200	I-110 Southbound Ramps & Manchester Avenue	Caltrans/City of LA	24	C	18	B	22	C	24	C	19	B	32	C

Source: Fehr & Peers, 2012.

*Indicates oversaturated conditions. Delay cannot be calculated.

Table 3
BASELINE (2010) WITH PROJECT ALTERNATIVE 4 LEVEL OF SERVICE ANALYSIS
HIGHWAY CAPACITY MANUAL (HCM) ANALYSIS FOR KEY RAMP INTERSECTIONS

INT #	INTERSECTION	JURISDICTION	BASELINE (2010) WITHOUT ALTERNATIVE						BASELINE (2010) WITH ALT 4					
			AM		MD		PM		AM		MD		PM	
			Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS
39	I-405 Northbound Ramps & Century Boulevard	Caltrans/Inglewood	12	B	46	D	14	B	15	B	13	B	51	D
58	La Cienega Boulevard & Florence Avenue	Inglewood	44	D	48	D	87	F	48	D	52	D	94	F
73	Nash Street/I-105 Westbound Ramps & Imperial Highway	Caltrans/El Segundo/City of LA	35	C	10	A	9	A	9	A	35	D	10	A
74	I-105 Ramps (e/o Aviation Boulevard) & Imperial Highway	Caltrans/City of LA	2	A	5	A	6	A	6	A	2	A	5	A
83	I-405 Northbound Ramps & Jefferson Boulevard	Caltrans/Culver City/City of LA	21	C	22	C	54	D	20	C	22	C	46	D
84	I-405 Southbound Ramps & Jefferson Boulevard	Caltrans/Culver City/City of LA	22	C	23	C	25	C	25	C	22	C	23	C
96	La Cienega Boulevard & I-405 Southbound Ramps (n/o Century Boulevard)	Caltrans/Inglewood/City of LA	0	A	0	A	1	A	0	A	0	A	0	A
97	La Cienega Boulevard & I-405 Southbound Ramps (s/o Century Boulevard)	Caltrans/City of LA/LA County	11	B	13	B	10	A	10	B	12	B	14	B
98	La Cienega Boulevard & I-405 Southbound Ramps (n/o Imperial Highway)	Caltrans/City of LA/LA County	9	A	10	A	8	A	6	A	9	A	8	A
102	I-405 Northbound Ramps & La Tijera Boulevard	Caltrans/City of LA	13	B	20	B	12	B	12	B	13	B	24	C
103	I-405 Southbound Ramps & La Tijera Boulevard	Caltrans/City of LA	21	C	25	C	23	C	21	C	27	C	23	C
112	Lincoln Boulevard & SR 90 Ramps	Caltrans/City of LA	9	A	8	A	9	A	9	A	9	A	8	A
115	Ash Avenue & Manchester Avenue	Caltrans/Inglewood	19	B	18	B	19	B	19	B	19	B	18	B
118	Sawtelle Boulevard & Matteson Street/I-405 Southbound Ramps	Caltrans/Culver City	51	D	51	D	43	D	44	D	51	D	51	D
124	Prairie Avenue & West 112th Street/I-105 Off-Ramp	Caltrans/Inglewood	12	B	16	B	17	B	18	B	12	B	16	B
134	Sepulveda Boulevard & I-405 Northbound On-/Off-Ramps	Caltrans/Culver City	74	E	28	C	73	E	58	E	24	C	88	F
139	Sepulveda Boulevard & I-105 Westbound Ramps (n/o Imperial Highway)	Caltrans/City of LA	12	B	65	E	78	E	76	E	12	B	63	E
170	I-110 Northbound Ramps & Manchester Avenue	Caltrans/City of LA	18	B	18	B	18	B	18	B	18	B	18	B
198	Flower Street (near I-110 Southbound Ramps) & Florence Avenue	Caltrans/City of LA	17	B	16	B	19	B	17	B	16	B	20	C
199	Grand Avenue (near I-110 Northbound Ramps) & Florence Avenue	Caltrans/City of LA	38	D	35	D	55	D	52	D	35	D	31	C
200	I-110 Southbound Ramps & Manchester Avenue	Caltrans/City of LA	24	C	18	B	22	C	21	C	23	C	18	B

Source: Fehr & Peers, 2012.

*Indicates oversaturated conditions. Delay cannot be calculated.

Table 4
BASELINE (2010) WITH PROJECT ALTERNATIVES 8 & 9 LEVEL OF SERVICE ANALYSIS
HIGHWAY CAPACITY MANUAL (HCM) ANALYSIS FOR KEY RAMP INTERSECTIONS

INT #	INTERSECTION	JURISDICTION	BASELINE (2010) WITHOUT ALTERNATIVE						BASELINE (2010) WITH ALT 8 & 9					
			AM		MD		PM		AM		MD		PM	
			Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS
39	I-405 Northbound Ramps & Century Boulevard	Caltrans/Inglewood	12	B	46	D	14	B	13	B	51	D	15	B
58	La Cienega Boulevard & Florence Avenue	Inglewood	44	D	48	D	87	F	52	D	52	D	84	F
73	Nash Street/I-105 Westbound Ramps & Imperial Highway	Caltrans/El Segundo/City of LA	35	C	10	A	9	A	36	D	10	A	9	A
74	I-105 Ramps (e/o Aviation Boulevard) & Imperial Highway	Caltrans/City of LA	2	A	5	A	6	A	3	A	5	A	6	A
83	I-405 Northbound Ramps & Jefferson Boulevard	Caltrans/Culver City/City of LA	21	C	22	C	54	D	20	C	21	C	46	D
84	I-405 Southbound Ramps & Jefferson Boulevard	Caltrans/Culver City/City of LA	22	C	23	C	25	C	22	C	23	C	25	C
96	La Cienega Boulevard & I-405 Southbound Ramps (n/o Century Boulevard)	Caltrans/Inglewood/City of LA	0	A	0	A	1	A	41	D	48	D	61	E
97	La Cienega Boulevard & I-405 Southbound Ramps (s/o Century Boulevard)	Caltrans/City of LA/LA County	11	B	13	B	10	A	11	B	13	B	9	A
98	La Cienega Boulevard & I-405 Southbound Ramps (n/o Imperial Highway)	Caltrans/City of LA/LA County	9	A	10	A	8	A	7	A	7	A	6	A
102	I-405 Northbound Ramps & La Tijera Boulevard	Caltrans/City of LA	13	B	20	B	12	B	13	B	33	C	12	B
103	I-405 Southbound Ramps & La Tijera Boulevard	Caltrans/City of LA	21	C	25	C	23	C	21	C	25	C	24	C
112	Lincoln Boulevard & SR 90 Ramps	Caltrans/City of LA	9	A	8	A	9	A	9	A	8	A	9	A
115	Ash Avenue & Manchester Avenue	Caltrans/Inglewood	19	B	18	B	19	B	19	B	18	B	19	B
118	Sawtelle Boulevard & Matteson Street/I-405 Southbound Ramps	Caltrans/Culver City	51	D	51	D	43	D	52	D	50	D	44	D
124	Prairie Avenue & West 112th Street/I-105 Off-Ramp	Caltrans/Inglewood	12	B	16	B	17	B	12	B	16	B	17	B
134	Sepulveda Boulevard & I-405 Northbound On-/Off-Ramps	Caltrans/Culver City	74	E	28	C	73	E	58	E	23	C	88	F
139	Sepulveda Boulevard & I-105 Westbound Ramps (n/o Imperial Highway)	Caltrans/City of LA	12	B	65	E	78	E	12	B	63	E	79	E
170	I-110 Northbound Ramps & Manchester Avenue	Caltrans/City of LA	18	B	18	B	18	B	18	B	18	B	18	B
198	Flower Street (near I-110 Southbound Ramps) & Florence Avenue	Caltrans/City of LA	17	B	16	B	19	B	17	B	16	B	22	C
199	Grand Avenue (near I-110 Northbound Ramps) & Florence Avenue	Caltrans/City of LA	38	D	35	D	55	D	35	C	32	C	50	D
200	I-110 Southbound Ramps & Manchester Avenue	Caltrans/City of LA	24	C	18	B	22	C	28	C	19	B	23	C

Source: Fehr & Peers, 2012.

*Indicates oversaturated conditions. Delay cannot be calculated.

**Table 5
FUTURE ADJUSTED BASELINE (2025) WITH ALTERNATIVE 1-2 LEVEL OF SERVICE ANALYSIS
HIGHWAY CAPACITY MANUAL (HCM) ANALYSIS FOR KEY RAMP INTERSECTIONS**

INT #	INTERSECTION	JURISDICTION	FUTURE BASELINE (2025) WITHOUT ALTERNATIVE						FUTURE BASELINE (2025) WITH ALT 1-2					
			AM		MD		PM		AM		MD		PM	
			Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS
39	I-405 Northbound Ramps & Century Boulevard	Caltrans/Inglewood	16	B	61	E	22	C	19	B	78	E	32	C
58	La Cienega Boulevard & Florence Avenue	Inglewood	91	F	80	F	*	F	92	F	*	F	*	F
73	Nash Street/I-105 Westbound Ramps & Imperial Highway	Caltrans/El Segundo/City of LA	42	D	10	A	10	A	45	D	11	B	12	B
74	I-105 Ramps (e/o Aviation Boulevard) & Imperial Highway	Caltrans/City of LA	2	A	5	A	6	A	2	A	5	A	5	A
83	I-405 Northbound Ramps & Jefferson Boulevard	Caltrans/Culver City/City of LA	23	C	27	C	56	E	23	C	28	C	59	E
84	I-405 Southbound Ramps & Jefferson Boulevard	Caltrans/Culver City/City of LA	21	C	22	C	29	C	23	C	22	C	29	C
96	La Cienega Boulevard & I-405 Southbound Ramps (n/o Century Boulevard)	Caltrans/Inglewood/City of LA	0	A	1	A	1	A	101	F	92	F	70	E
97	La Cienega Boulevard & I-405 Southbound Ramps (s/o Century Boulevard)	Caltrans/City of LA/LA County	10	A	12	B	9	A	11	B	11	B	9	A
98	La Cienega Boulevard & I-405 Southbound Ramps (n/o Imperial Highway)	Caltrans/City of LA/LA County	8	A	9	A	7	A	10	A	9	A	6	A
102	I-405 Northbound Ramps & La Tijera Boulevard	Caltrans/City of LA	19	B	26	C	17	B	42	D	66	E	26	C
103	I-405 Southbound Ramps & La Tijera Boulevard	Caltrans/City of LA	22	C	27	C	38	D	24	C	30	C	36	D
112	Lincoln Boulevard & SR 90 Ramps	Caltrans/City of LA	10	A	8	A	14	B	10	A	8	A	16	B
115	Ash Avenue & Manchester Avenue	Caltrans/Inglewood	23	C	21	C	27	C	24	C	23	C	32	C
118	Sawtelle Boulevard & Matteson Street/I-405 Southbound Ramps	Caltrans/Culver City	61	E	64	E	80	E	61	E	65	E	83	F
124	Prairie Avenue & West 112th Street/I-105 Off-Ramp	Caltrans/Inglewood	14	B	17	B	20	B	14	B	17	B	22	C
134	Sepulveda Boulevard & I-405 Northbound On-/Off-Ramps	Caltrans/Culver City	78	E	28	C	101	F	76	E	28	C	103	F
139	Sepulveda Boulevard & I-105 Westbound Ramps (n/o Imperial Highway)	Caltrans/City of LA	12	B	65	E	78	E	11	B	63	E	78	E
170	I-110 Northbound Ramps & Manchester Avenue	Caltrans/City of LA	20	B	19	B	21	C	20	B	19	B	22	C
198	Flower Street (near I-110 Southbound Ramps) & Florence Avenue	Caltrans/City of LA	28	C	25	C	28	C	28	C	30	C	31	C
199	Grand Avenue (near I-110 Northbound Ramps) & Florence Avenue	Caltrans/City of LA	46	D	42	D	91	F	48	D	52	D	94	F
200	I-110 Southbound Ramps & Manchester Avenue	Caltrans/City of LA	30	C	20	B	32	C	30	C	20	C	28	C

Source: Fehr & Peers, 2012.

*Indicates oversaturated conditions. Delay cannot be calculated.

**Table 6
FUTURE ADJUSTED BASELINE (2025) WITH PROJECT ALTERNATIVE 3 LEVEL OF SERVICE ANALYSIS
HIGHWAY CAPACITY MANUAL (HCM) ANALYSIS FOR KEY RAMP INTERSECTIONS**

INT #	INTERSECTION	JURISDICTION	FUTURE BASELINE (2025) WITHOUT ALTERNATIVE						FUTURE BASELINE (2025) WITH ALT 3					
			AM		MD		PM		AM		MD		PM	
			Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS
39	I-405 Northbound Ramps & Century Boulevard	Caltrans/Inglewood	16	B	61	E	22	C	19	B	78	E	23	C
58	La Cienega Boulevard & Florence Avenue	Inglewood	91	F	80	F	*	F	*	F	*	F	*	F
73	Nash Street/I-105 Westbound Ramps & Imperial Highway	Caltrans/El Segundo/City of LA	42	D	10	A	10	A	51	D	10	B	10	B
74	I-105 Ramps (e/o Aviation Boulevard) & Imperial Highway	Caltrans/City of LA	2	A	5	A	6	A	46	D	25	C	57	E
83	I-405 Northbound Ramps & Jefferson Boulevard	Caltrans/Culver City/City of LA	23	C	27	C	56	E	23	C	24	C	58	E
84	I-405 Southbound Ramps & Jefferson Boulevard	Caltrans/Culver City/City of LA	21	C	22	C	29	C	22	C	23	C	25	C
96	La Cienega Boulevard & I-405 Southbound Ramps (n/o Century Boulevard)	Caltrans/Inglewood/City of LA	0	A	1	A	1	A	0	A	1	A	1	A
97	La Cienega Boulevard & I-405 Southbound Ramps (s/o Century Boulevard)	Caltrans/City of LA/LA County	10	A	12	B	9	A	10	A	13	B	7	A
98	La Cienega Boulevard & I-405 Southbound Ramps (n/o Imperial Highway)	Caltrans/City of LA/LA County	8	A	9	A	7	A	10	A	8	A	5	A
102	I-405 Northbound Ramps & La Tijera Boulevard	Caltrans/City of LA	19	B	26	C	17	B	57	E	65	E	13	B
103	I-405 Southbound Ramps & La Tijera Boulevard	Caltrans/City of LA	22	C	27	C	38	D	31	C	43	D	41	D
112	Lincoln Boulevard & SR 90 Ramps	Caltrans/City of LA	10	A	8	A	14	B	10	A	9	A	9	A
115	Ash Avenue & Manchester Avenue	Caltrans/Inglewood	23	C	21	C	27	C	23	C	19	B	19	B
118	Sawtelle Boulevard & Matteson Street/I-405 Southbound Ramps	Caltrans/Culver City	61	E	64	E	80	E	61	E	64	E	45	D
124	Prairie Avenue & West 112th Street/I-105 Off-Ramp	Caltrans/Inglewood	14	B	17	B	20	B	15	B	17	B	20	B
134	Sepulveda Boulevard & I-405 Northbound On-/Off-Ramps	Caltrans/Culver City	78	E	28	C	101	F	80	E	28	C	101	F
139	Sepulveda Boulevard & I-105 Westbound Ramps (n/o Imperial Highway)	Caltrans/City of LA	12	B	65	E	78	E	15	B	75	E	82	F
170	I-110 Northbound Ramps & Manchester Avenue	Caltrans/City of LA	20	B	19	B	21	C	20	C	20	B	18	B
198	Flower Street (near I-110 Southbound Ramps) & Florence Avenue	Caltrans/City of LA	28	C	25	C	28	C	29	C	30	C	40	D
199	Grand Avenue (near I-110 Northbound Ramps) & Florence Avenue	Caltrans/City of LA	46	D	42	D	91	F	50	D	61	E	52	D
200	I-110 Southbound Ramps & Manchester Avenue	Caltrans/City of LA	30	C	20	B	32	C	26	C	21	C	28	C

Source: Fehr & Peers, 2012.

*Indicates oversaturated conditions. Delay cannot be calculated.

**Table 7
FUTURE ADJUSTED BASELINE (2025) WITH PROJECT ALTERNATIVE 4 LEVEL OF SERVICE ANALYSIS
HIGHWAY CAPACITY MANUAL (HCM) ANALYSIS FOR KEY RAMP INTERSECTIONS**

INT #	INTERSECTION	JURISDICTION	FUTURE BASELINE (2025) WITHOUT ALTERNATIVE						FUTURE ADJUSTED BASELINE (2025) WITH ALT 4					
			AM		MD		PM		AM		MD		PM	
			Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS
39	I-405 Northbound Ramps & Century Boulevard	Caltrans/Inglewood	16	B	61	E	22	C	32	C	18	B	76	E
58	La Cienega Boulevard & Florence Avenue	Inglewood	91	F	80	F	*	F	111	F	117	F	*	F
73	Nash Street/I-105 Westbound Ramps & Imperial Highway	Caltrans/El Segundo/City of LA	42	D	10	A	10	A	12	B	44	D	11	B
74	I-105 Ramps (e/o Aviation Boulevard) & Imperial Highway	Caltrans/City of LA	2	A	5	A	6	A	6	A	2	A	5	A
83	I-405 Northbound Ramps & Jefferson Boulevard	Caltrans/Culver City/City of LA	23	C	27	C	56	E	23	C	29	C	57	E
84	I-405 Southbound Ramps & Jefferson Boulevard	Caltrans/Culver City/City of LA	21	C	22	C	29	C	30	C	22	C	22	C
96	La Cienega Boulevard & I-405 Southbound Ramps (n/o Century Boulevard)	Caltrans/Inglewood/City of LA	0	A	1	A	1	A	1	A	0	A	0	A
97	La Cienega Boulevard & I-405 Southbound Ramps (s/o Century Boulevard)	Caltrans/City of LA/LA County	10	A	12	B	9	A	9	A	11	B	13	B
98	La Cienega Boulevard & I-405 Southbound Ramps (n/o Imperial Highway)	Caltrans/City of LA/LA County	8	A	9	A	7	A	7	A	11	B	9	A
102	I-405 Northbound Ramps & La Tijera Boulevard	Caltrans/City of LA	19	B	26	C	17	B	20	C	30	C	48	D
103	I-405 Southbound Ramps & La Tijera Boulevard	Caltrans/City of LA	22	C	27	C	38	D	24	C	29	C	45	D
112	Lincoln Boulevard & SR 90 Ramps	Caltrans/City of LA	10	A	8	A	14	B	16	B	10	A	8	A
115	Ash Avenue & Manchester Avenue	Caltrans/Inglewood	23	C	21	C	27	C	31	C	23	C	20	C
118	Sawtelle Boulevard & Matteson Street/I-405 Southbound Ramps	Caltrans/Culver City	61	E	64	E	80	E	83	F	60	E	68	E
124	Prairie Avenue & West 112th Street/I-105 Off-Ramp	Caltrans/Inglewood	14	B	17	B	20	B	21	C	14	B	17	B
134	Sepulveda Boulevard & I-405 Northbound On-/Off-Ramps	Caltrans/Culver City	78	E	28	C	101	F	78	E	28	C	101	F
139	Sepulveda Boulevard & I-105 Westbound Ramps (n/o Imperial Highway)	Caltrans/City of LA	12	B	65	E	78	E	77	E	11	B	62	E
170	I-110 Northbound Ramps & Manchester Avenue	Caltrans/City of LA	20	B	19	B	21	C	22	C	20	B	20	B
198	Flower Street (near I-110 Southbound Ramps) & Florence Avenue	Caltrans/City of LA	28	C	25	C	28	C	27	C	30	C	31	C
199	Grand Avenue (near I-110 Northbound Ramps) & Florence Avenue	Caltrans/City of LA	46	D	42	D	91	F	89	F	46	D	48	D
200	I-110 Southbound Ramps & Manchester Avenue	Caltrans/City of LA	30	C	20	B	32	C	33	C	30	C	20	B

Source: Fehr & Peers, 2012.

*Indicates oversaturated conditions. Delay cannot be calculated.

**Table 8
FUTURE ADJUSTED BASELINE (2025) WITH PROJECT ALTERNATIVES 8 & 9 LEVEL OF SERVICE ANALYSIS
HIGHWAY CAPACITY MANUAL (HCM) ANALYSIS FOR KEY RAMP INTERSECTIONS**

INT #	INTERSECTION	JURISDICTION	FUTURE BASELINE (2025) WITHOUT ALTERNATIVE						FUTURE ADJUSTED BASELINE (2025) WITH PROJECT ALT 8 & 9					
			AM		MD		PM		AM		MD		PM	
			Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS
39	I-405 Northbound Ramps & Century Boulevard	Caltrans/Inglewood	16	B	61	E	22	C	19	B	76	E	15	B
58	La Cienega Boulevard & Florence Avenue	Inglewood	91	F	80	F	*	F	*	F	*	F	71	E
73	Nash Street/I-105 Westbound Ramps & Imperial Highway	Caltrans/El Segundo/City of LA	42	D	10	A	10	A	46	D	11	B	9	A
74	I-105 Ramps (e/o Aviation Boulevard) & Imperial Highway	Caltrans/City of LA	2	A	5	A	6	A	2	A	5	A	6	A
83	I-405 Northbound Ramps & Jefferson Boulevard	Caltrans/Culver City/City of LA	23	C	27	C	56	E	23	C	27	C	46	D
84	I-405 Southbound Ramps & Jefferson Boulevard	Caltrans/Culver City/City of LA	21	C	22	C	29	C	23	C	22	C	25	C
96	La Cienega Boulevard & I-405 Southbound Ramps (n/o Century Boulevard)	Caltrans/Inglewood/City of LA	0	A	1	A	1	A	73	E	92	F	63	E
97	La Cienega Boulevard & I-405 Southbound Ramps (s/o Century Boulevard)	Caltrans/City of LA/LA County	10	A	12	B	9	A	11	B	12	B	9	A
98	La Cienega Boulevard & I-405 Southbound Ramps (n/o Imperial Highway)	Caltrans/City of LA/LA County	8	A	9	A	7	A	9	A	9	A	6	A
102	I-405 Northbound Ramps & La Tijera Boulevard	Caltrans/City of LA	19	B	26	C	17	B	43	D	64	E	12	B
103	I-405 Southbound Ramps & La Tijera Boulevard	Caltrans/City of LA	22	C	27	C	38	D	25	C	31	C	24	C
112	Lincoln Boulevard & SR 90 Ramps	Caltrans/City of LA	10	A	8	A	14	B	10	A	8	A	9	A
115	Ash Avenue & Manchester Avenue	Caltrans/Inglewood	23	C	21	C	27	C	24	C	22	C	19	B
118	Sawtelle Boulevard & Matteson Street/I-405 Southbound Ramps	Caltrans/Culver City	61	E	64	E	80	E	58	E	65	E	44	D
124	Prairie Avenue & West 112th Street/I-105 Off-Ramp	Caltrans/Inglewood	14	B	17	B	20	B	14	B	17	B	17	B
134	Sepulveda Boulevard & I-405 Northbound On-/Off-Ramps	Caltrans/Culver City	78	E	28	C	101	F	79	E	29	C	88	F
139	Sepulveda Boulevard & I-105 Westbound Ramps (n/o Imperial Highway)	Caltrans/City of LA	12	B	65	E	78	E	11	B	62	E	79	E
170	I-110 Northbound Ramps & Manchester Avenue	Caltrans/City of LA	20	B	19	B	21	C	20	B	19	B	18	B
198	Flower Street (near I-110 Southbound Ramps) & Florence Avenue	Caltrans/City of LA	28	C	25	C	28	C	28	C	30	C	22	C
199	Grand Avenue (near I-110 Northbound Ramps) & Florence Avenue	Caltrans/City of LA	46	D	42	D	91	F	48	D	50	D	50	D
200	I-110 Southbound Ramps & Manchester Avenue	Caltrans/City of LA	30	C	20	B	32	C	30	C	20	C	23	C

Source: Fehr & Peers, 2012.

*Indicates oversaturated conditions. Delay cannot be calculated.