Veterans Memorial Park

Roadway Segment		Speed	24-hour Traffic Volume			Distance to CNEL from Roadway Centerline												Noise Level (CNEL or Ldn) at Distance from Roadway Centerline											
						Existing				Future No Project				Future With Project				Change	Change	Existing			Future No Proj			Future Plus Proj			Change	Change
			Existing	Future Without Project	Future With Project	100.0 Feet	60 CNEL	65 CNEL	70 CNEL	100.0 Feet	60 CNEL	65 CNEL	70 CNEL	100.0 Feet	60 CNEL	65 CNEL	70 CNEL	From Existing	due to Project	100 feet	100 feet	100 feet	100 feet	100 feet	100 feet	100 feet	100 feet	100 feet	From Existing	due to Project
Cannon Road	West of Faraday Ave	50.0	22,600	23,400	23,700	72.1	639	297	138	72.2	654	304	141	72.3	660	306	142	0.2	0.1	72.1	72.1	72.1	72.2	72.2	72.2	72.3	72.3	72.3	+0.2	+0.1
Cannon Road	Faraday Ave to El Camino Rd	50.0	16,200	16,700	17,100	70.6	512	238	110	70.8	523	243	113	70.9	531	246	114	0.2	0.1	70.6	70.6	70.6	70.8	70.8	70.8	70.9	70.9	70.9	+0.2	+0.1
Faraday Avenue	Cannon Rd to N. Driveway	40.0	5,100	5,300	6,100	63.8	180	84	39	64.0	185	86	40	64.6	203	94	44	0.8	0.6	63.8	63.8	63.8	64.0	64.0	64.0	64.6	64.6	64.6	+0.8	+0.6
Faraday Avenue	N. Driveway to S. Driveway	40.0	3,900	4,100	4,500	62.7	150	70	32	62.9	156	72	34	63.3	166	77	36	0.6	0.4	62.7	62.7	62.7	62.9	62.9	62.9	63.3	63.3	63.3	+0.6	+0.4

Assumptions:

Fleet Mix: 92% Autos; 3% Medium Trucks; 5% Heavy Trucks

Simplified to 2 lanes: 6.1 meters= 20.0 feet from centerline

future: 6.1 meters= 20.0 feet from centerline

Time of Day: 70% Day; 15% Evening; 15% Night

Noise path decay parameter for hard site

Calculations using methods of Federal Highway Administration *Highway Traffic Noise Prediction Model*, December, 1978. Baseline California vehicle noise levels from Caltrans, TAN 95-03, 1995

Source of standard assumptions:

24-hour distribution of traffic volumes:
70% day (7-7), 15% evening (7-10), 15% night (10-7)
Analysis of L.A. County 24-hour traffic counts for selected arterial streets conducted by Pat Mann for Inglewood Noise Element, 1974

Truck Mix

ARB standard fleet mix for air quality analysis
Heavy trucks for noise model includes heavy diesel tractor-trailers only
Medium trucks for noise model includes buses and bobtail trucks
Autos includes cars, vans, pickups and light trucks

Site parameter: 0.0 (0=hard, 1=soft)

HALFSEP 1/2 lane separation 6.1

HALFSEPFUT 1/2 lane separation (future) 6.1

Lane separation:
consider moving lanes only

2 ___ ___
+ +

4 ___ ___ ___ ___
+ <--------> +

6 ___ ___ ___ ___ ___ ___
+ <------------> +

8 + ___ ___ ___ ___ ___ ___ ___ ___ +
+ <----------------> +

California base noise levels:

Autos: 5.2+38.8 Log10 (speed, mi/hr) = -2.8 + 38.8 Log10 (speed, km/hr)

Light trucks: 35.3 + 25.6 Log10 (speed, mi/hr) = 30 + 25.6 Log10 (speed, km/hr)

Heavy trucks:
25-31 mi/hr: 51.9 + 19.2 Log10 (speed, mi/hr) = 47.9 + 19.2 Log10 (speed, km/hr)
35-65 mi/hr: 50.4 + 19.2 Log10 (speed, mi/hr) = 46.4 + 19.2 Log10 (speed, km/hr)
31-35 mi/hr: straight line interpolation between above two curves