Appendix F. Noise Modeling Output



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## Average Construction Noise Levels - Seashore Village

Construction Noise at 50 Fe	eet (dBA Leq)	FTA Measurement Distance	50
Construction Phase	All Applicable Equipment in Use <sup>1</sup>	Minimum Required Equipment in Use <sup>1</sup>	
Ground Clearing/Demolition	83	83	
Excavation	88	75	
Foundation Construction	81	81	
Building Construction	81	65	
Finishing and Site Cleanup	88	72	

#### Construction Noise at 120 Feet (dBA Leq)

Average Feet at Site: 120

Construction Phase	All Applicable Equipment in Use <sup>1</sup>	Minimum Required Equipment in Use <sup>1</sup>	
Ground Clearing/Demolition	75	75	
Excavation	80	67	
Foundation Construction	73	73	
Building Construction	73	57	
Finishing and Site Cleanup	80	64	

Source: Bolt, Beranek and Newman, "Noise from Construction Equipment and Operations, Building Equipment, and Home Appliances," prepared for the USEPA, December 31, 1971. Based on analysis for Domestic Housing

### **Construction Vibration - Seashore Village**

Construction generated Vibration		Average Vibration Levels	Truck Passbys Construction Equipment	2: 120	
Equipment	Approximate Velocity Level at 25 ft, VdB	Approximate RMS a Velocity at 25 ft, inch/second	Approximate Velocity Level, VdB	Approximate RMS a Velocity at 180 ft, inch/second	
Small bulldozer	58	0.003	44	0.0003	
Jackhammer	79	0.035	65	0.0033	
Loaded trucks	86	0.076	86	0.0760	NA
		Criteria	80	0.2	

Average vibration levels based on the average distance of construction activities to the closest residential receptor for each construction phase

Construction generated Vibration		Maximum Vibration Levels	Construction Equipment	8	8	Feet
Equipment	Approximate Velocity Level at 25 ft, VdB	Approximate RMS a Velocity at 25 ft, inch/second	Approximate Velocity Level, VdB	Approximate RMS a Velocity at 340 ft, inch/second		
Small bulldozer	58	0.003	68	0.0166		
Jackhammer	79	0.035	89	0.1933		
		Criteria	80	0.2		

Maximum vibration levels based on the distance of the closest residential receptor to the closest proposed residential building

<sup>1</sup> Determined based on use of jackhammers or pneumatic hammers that may be used for pavement demolition at a distance of 25 feet

Notes: RMS velocity calculated from vibration level (VdB) using the reference of one microinch/second.

Source: Based on methodology from the United States Department of Transportation Federal Transit Administration, *Transit Noise and Vibration Impact* Assessment (May 2006).

### Seashore Village - Sound Levels on Pacific Coast Highway

Sound Levels ATMOSPHERICS:

68 deg F, 50% RH

Receiver

Name

	Lden				
	Calculated				
	dBA	Noise Compatibi	lity Threshold		
	Building			Windows	Windows
	Façade	Exterior	Interior	Open	Closed
At Project Site	67.3	65	45	55.3	43.3
At Project Site with a 9-Foot					
Wall on Jamboree	59.1	65	45	47.1	35.1

Society of Automotive Engineers (SAE) International. 1971, October. House Noise-Reduction Measurements for Use in Studies of Aircraft Flyover Noise. SAE publication AIR 1081.

## Seashore Village - Pacific Coast Highway

INPUT: ROADWAYS

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points					
Name	Width	Name	No.	Coordinates (	pavemer	nt)	Segment
				X	Y	Ζ	Pvmt
	ft			ft	ft	ft	Туре
Link1_WB_right	16	point1	1	-2,501.00	45	0	Average
		point2	2	-3,500.00	45	0	
Link1_WB_middle	16	point3	3	-2,501.00	29	0	Average
		point4	4	-3,500.00	29	0	
Link1_WB_left	16	point5	5	-2,501.00	13	0	Average
		point6	6	-3,500.00	13	0	
Link1_EB_left	16	point7	7	-3,500.00	-13	0	Average
		point8	8	-2,501.00	-13	0	
Link1_EB_middle	16	point9	9	-3,500.00	-29	0	Average
		point10	10	-2,501.00	-29	0	
Link1_EB_right	16	point11	11	-3,500.00	-45	0	Average
_ 0		point12	12	-2,501.00	-45	0	

# Seashore Village - Pacific Coast Highway

### INPUT: RECEIVERS

#### Receiver

Name	No. Coo	ordinates (g	Height			
	Х	Y	′ Z	abo	ve	
				Gro	und	
	ft	ft	t ft	ft		
At Project Site	1	-3,000.00	-180	0	4.92	

## Seashore Village - Traffic Levels on Pacific Coast Highway

### INPUT: TRAFFIC FOR Lden

Roadway	Points	0																				
Name	Name	Segment ADT	Auto	05			MTr	ucks			HTr	ucks			Bus	es			Mot	orcy	cles	
			%D	%E	%N		%D		, %N		%D		%N		%D	%E	%N		%D		%N	S
		veh/24hrs		%	%	mph		%	%	mph		%	%	mph		%	%	mph		%	%	mph
Link1_WB_right	point1 point2	8333	99	99	99	45	1	1	1	45	0	0	0	Ö	0	0	0	0	0	0	0	0
Link1_WB_middle	point3 point4	8333	99	99	99	45	1	1	1	45	0	0	0	0	0	0	0	0	0	0	0	0
Link1_WB_left	point5 point6	8333	99	99	99	45	1	1	1	45	0	0	0	0	0	0	0	0	0	0	0	0
Link1_EB_left	, point7 point8	8333	99	99	99	45	1	1	1	45	0	0	0	0	0	0	0	0	0	0	0	0
Link1_EB_middle	, point9 point10	8333	99	99	99	45	1	1	1	45	0	0	0	0	0	0	0	0	0	0	0	0
Link1_EB_right	point11 point12	8333	99	99	99	45	1	1	1	45	0	0	0	0	0	0	0	0	0	0	0	0
		49998	ADT	-																		

Based on Roadway Volumes within the City of Newport Beach. 2006. City of Newport Beach General Plan Update EIR.

