

Canoga Transportation Corridor

Draft Environmental Impact Report

SCH No. 2007071056

Appendix F

Noise



Los Angeles County Metropolitan Transportation Authority
One Gateway Plaza
Los Angeles, CA 90012

Contact Person:

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March 3, 2008

Construction Noise Calculations

ON-STREET - UNMITIGATED

Reference Noise Distance	50					
Reference Noise Level	89					
Sensitive Receptor	Distance (feet)	Attenuation Factors	Maximum Construction Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Archstone Warner Center Apts	370	0	71.6	66.6	72.8	6.2
New Academy School	25	8	87.0	75.4	87.3	11.9
Los Angeles County Mental Health	15	0	99.5	75.4	99.5	24.1
Single-Family homes north of Roscoe Blvd	90	0	83.9	69.7	84.1	14.4
Single- and multi-family homes south of Parthenia	105	0	82.6	68.2	82.7	14.5
Riviera Mobile Estates	50	0	89.0	69.5	89.0	19.5
Eton Mobile Home Park	50	0	89.0	69.5	89.0	19.5
Canoga Mobile Estates	35	0	92.1	71.9	92.1	20.2
OPTION 1						
Sunburst Mobile Home Park	140	0	80.1	65.4	80.2	14.8
Apartments North of Lassen	890	0	64.0	73.5	74.0	0.5
OPTION 2						
Sunburst Mobile Home Park	110	0	82.2	65.4	82.2	16.8
Apartments North of Lassen	90	0	83.9	73.5	84.3	10.8
OPTION 3						
Sunburst Mobile Home Park	110	0	82.2	65.4	82.2	16.8
Apartments North of Lassen	240	0	75.4	73.5	77.5	4.0

ON-STREET - MITIGATED

Reference Noise Distance	50						
Reference Noise Level	89						
Sensitive Receptor	Distance (feet)	Mitigation Factors	Attenuation Factors	Maximum Construction Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Archstone Warner Center Apts	370	8	0	63.6	66.6	68.4	1.8
New Academy School	25	8	8	79.0	75.4	80.6	5.2
Los Angeles County Mental Health	15	8	0	91.5	75.4	91.6	16.2
Single-Family homes north of Roscoe Blvd	90	8	0	75.9	69.7	76.8	7.1
Single- and multi-family homes south of Parthenia	105	8	0	74.6	68.2	75.5	7.3
Riviera Mobile Estates	50	8	0	81.0	69.5	81.3	11.8
Eton Mobile Home Park	50	8	0	81.0	69.5	81.3	11.8
Canoga Mobile Estates	35	8	0	84.1	71.9	84.4	12.5
OPTION 1							
Sunburst Mobile Home Park	140	8	0	72.1	65.4	72.9	7.5
Apartments North of Lassen	890	8	0	56.0	73.5	73.6	0.1
OPTION 2							
Sunburst Mobile Home Park	110	8	0	74.2	65.4	74.7	9.3
Apartments North of Lassen	90	8	0	75.9	73.5	77.9	4.4
OPTION 3							
Sunburst Mobile Home Park	110	8	0	74.2	65.4	74.7	9.3
Apartments North of Lassen	240	8	0	67.4	73.5	74.4	0.9

BUSWAY - UNMITIGATED

Reference Noise Distance	50					
Reference Noise Level	89					
Sensitive Receptor	Distance (feet)	Attenuation Factors	Maximum Construction Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Archstone Warner Center Apts	40	0	90.9	66.6	91.0	24.4
New Academy School	80	8	76.9	75.4	79.2	3.8
Los Angeles County Mental Health	120	0	81.4	75.4	82.4	7.0
Single-Family homes north of Roscoe Blvd	30	0	93.4	69.7	93.5	23.8
Single- and multi-family homes south of Parthenia	70	0	86.1	68.2	86.1	17.9
Riviera Mobile Estates	25	0	95.0	69.5	95.0	25.5
Eton Mobile Home Park	25	0	95.0	69.5	95.0	25.5
Canoga Mobile Estates	90	0	83.9	71.9	84.2	12.3
OPTION 1						
Sunburst Mobile Home Park	330	0	72.6	65.4	73.4	8.0
Apartments North of Lassen	2900	0	53.7	73.5	73.5	0.0
OPTION 2						
Sunburst Mobile Home Park	90	0	83.9	65.4	84.0	18.6
Apartments North of Lassen	90	0	83.9	73.5	84.3	10.8
OPTION 2A						
Sunburst Mobile Home Park	90	0	83.9	65.4	84.0	18.6
Apartments North of Lassen	90	0	83.9	73.5	84.3	10.8
OPTION 3						
Sunburst Mobile Home Park	90	0	83.9	65.4	84.0	18.6
Apartments North of Lassen	200	0	77.0	73.5	78.6	5.1
OPTION 3A						
Sunburst Mobile Home Park	90	0	83.9	65.4	84.0	18.6
Apartments North of Lassen	200	0	77.0	73.5	78.6	5.1
OPTION 4						
Sunburst Mobile Home Park	30	0	93.4	65.4	93.4	28.0
Apartments North of Lassen	450	0	69.9	73.5	75.1	1.6
OPTION 4A						
Sunburst Mobile Home Park	30	0	93.4	65.4	93.4	28.0
Apartments North of Lassen	340	0	72.3	73.5	76.0	2.5
OPTION 5						
Sunburst Mobile Home Park	100	0	83.0	65.4	83.1	17.7
Apartments North of Lassen	340	0	72.3	73.5	76.0	2.5

BUSWAY - MITIGATED

Reference Noise Distance	50						
Reference Noise Level	89						
Sensitive Receptor	Distance (feet)	Mitigation Factors	Attenuation Factors	Maximum Construction Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Archstone Warner Center Apts	40	8	0	82.9	66.6	83.0	16.4
New Academy School	80	8	8	68.9	75.4	76.3	0.9
Los Angeles County Mental Health	120	8	0	73.4	75.4	77.5	2.1
Single-Family homes north of Roscoe Blvd	30	8	0	85.4	69.7	85.6	15.9
Single- and multi-family homes south of Parthenia	70	8	0	78.1	68.2	78.5	10.3
Riviera Mobile Estates	25	8	0	87.0	69.5	87.1	17.6
Eton Mobile Home Park	25	8	0	87.0	69.5	87.1	17.6
Canoga Mobile Estates	90	8	0	75.9	71.9	77.4	5.5
OPTION 1							
Sunburst Mobile Home Park	330	8	0	64.6	65.4	68.0	2.6
Apartments North of Lassen	2900	8	0	45.7	73.5	73.5	0.0
OPTION 2							
Sunburst Mobile Home Park	90	8	0	75.9	65.4	76.3	10.9
Apartments North of Lassen	90	8	0	75.9	73.5	77.9	4.4
OPTION 2A							
Sunburst Mobile Home Park	90	8	0	75.9	65.4	76.3	10.9
Apartments North of Lassen	90	8	0	75.9	73.5	77.9	4.4
OPTION 3							
Sunburst Mobile Home Park	90	8	0	75.9	65.4	76.3	10.9
Apartments North of Lassen	200	8	0	69.0	73.5	74.8	1.3
OPTION 3A							
Sunburst Mobile Home Park	90	8	0	75.9	65.4	76.3	10.9
Apartments North of Lassen	200	8	0	69.0	73.5	74.8	1.3
OPTION 4							
Sunburst Mobile Home Park	30	8	0	85.4	65.4	85.5	20.1
Apartments North of Lassen	450	8	0	61.9	73.5	73.8	0.3
OPTION 4A							
Sunburst Mobile Home Park	30	8	0	85.4	65.4	85.5	20.1
Apartments North of Lassen	340	8	0	64.3	73.5	74.0	0.5
OPTION 5							
Sunburst Mobile Home Park	100	8	0	75.0	65.4	75.4	10.0
Apartments North of Lassen	340	8	0	64.3	73.5	74.0	0.5

Park-and-Ride Noise Calculations

Federal Transit Administration
General Transit Noise Assessment
Case: Park-and-Ride

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RESULTS			
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
All Sources	42	38	35
Source 1	42	38	35
Source 2	0	0	0
Source 3	0	0	0

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

Enter data for each noise source below - see reference list for source numbers.

NOISE SOURCE PARAMETERS			
Parameter	Source 1	Source 2	Source 3
Source Num.	Park & Ride Lot	18	
Dist. to receiver	distance (ft)	350	
Daytime Hours (7 AM - 10 PM)	autos/hour	480	
	buses/hour		
Nighttime Hours (10 PM - 7 AM)	autos/hour	240	
	buses/hour		
Jointed Track?	no		
Embedded Track?	no		
Aerial Structure?	no		
Barrier Present?	Y/N	N	
Intervening Rows of Buildings	number	0	

SOURCE REFERENCE LIST	
Source	Number
Electric Loco.	1
Diesel Loco.	2
Comm. Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Automobiles	9
City Buses	10
Commuter Buses	11
Rail Yard or Shop	12
Layover Tracks	13
Bus Storage Yard	14
Bus Op. Facility	15
Bus Transit Center	16
Parking Garage	17
Park & Ride Lot	18

