

APPENDIX F

NOISE DATA

Project Number: CBE1504 Sheet of
 Project Name: 1900 FOURTH STREET
 Test Personnel: CARA CARLUCCI

LxT_Data.013

Noise Measurement Survey

Site Number: ST-1 Date: 2/5/10 Time: From 9:58 To 10:13

Site Location: 1900 FOURTH STREET BERKELEY -
SOUTHEAST CORNER OF SITE

Primary Noise Sources: TRAFFIC

Measurement Results

	dBA
Leq	77.5
Lmax	87.1
Lmin	69.7
Lpeak	100.7
L2	X
L8	
L25	
L50	
SEL	

Observed Noise Sources/Events

Time	Noise Source/Event	dBA

Comments: SOME PARKING LOT NOISE

Equipment: Larson Davis Sound Track LXT Calibration Offset: dBA
 Settings: A-Weighted Other Slow Fast Windscreen

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
<u>2.5</u>	<u>0.9</u>	<u>61.2</u>	<u>68</u>	
Comments:	<u>SUNNY</u>			

Photos Taken:

Photo Number	Location/Description

Traffic Description:

Roadway	# Lanes	Posted Speed	Average Speed	NB/EB Counts	SB/WB Counts

Diagram/Further Comments:



Project Number: CBE1504
 Project Name: 1900 Fourth Street
 Test Personnel: Cara Carlucci

Sheet of

LXT-Data.014

Noise Measurement Survey

Site Number: SF2 Date: 2/5/11 Time: From 10:17 To 10:32

Site Location: 1900 Fourth Street Berkeley -
Southwest corner of site.

Primary Noise Sources: traffic, train

Measurement Results

	dBA
Leq	81.9
Lmax	101.2
Lmin	69.7
Lpeak	118.0
L2	
L8	
L25	
L50	
SEL	

Observed Noise Sources/Events

Time	Noise Source/Event	dBA
10:19	train - Amtrak	86.5
10:31	Train - Amtrak	82.1

Comments: _____

Equipment: Larson Davis Sound Track LXT
 Settings: A-Weighted Other _____

Calibration Offset: _____ dBA
 Slow Fast Windscreen

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
2.1	0.9	62.8	56	
Comments: <u>sunny</u>				

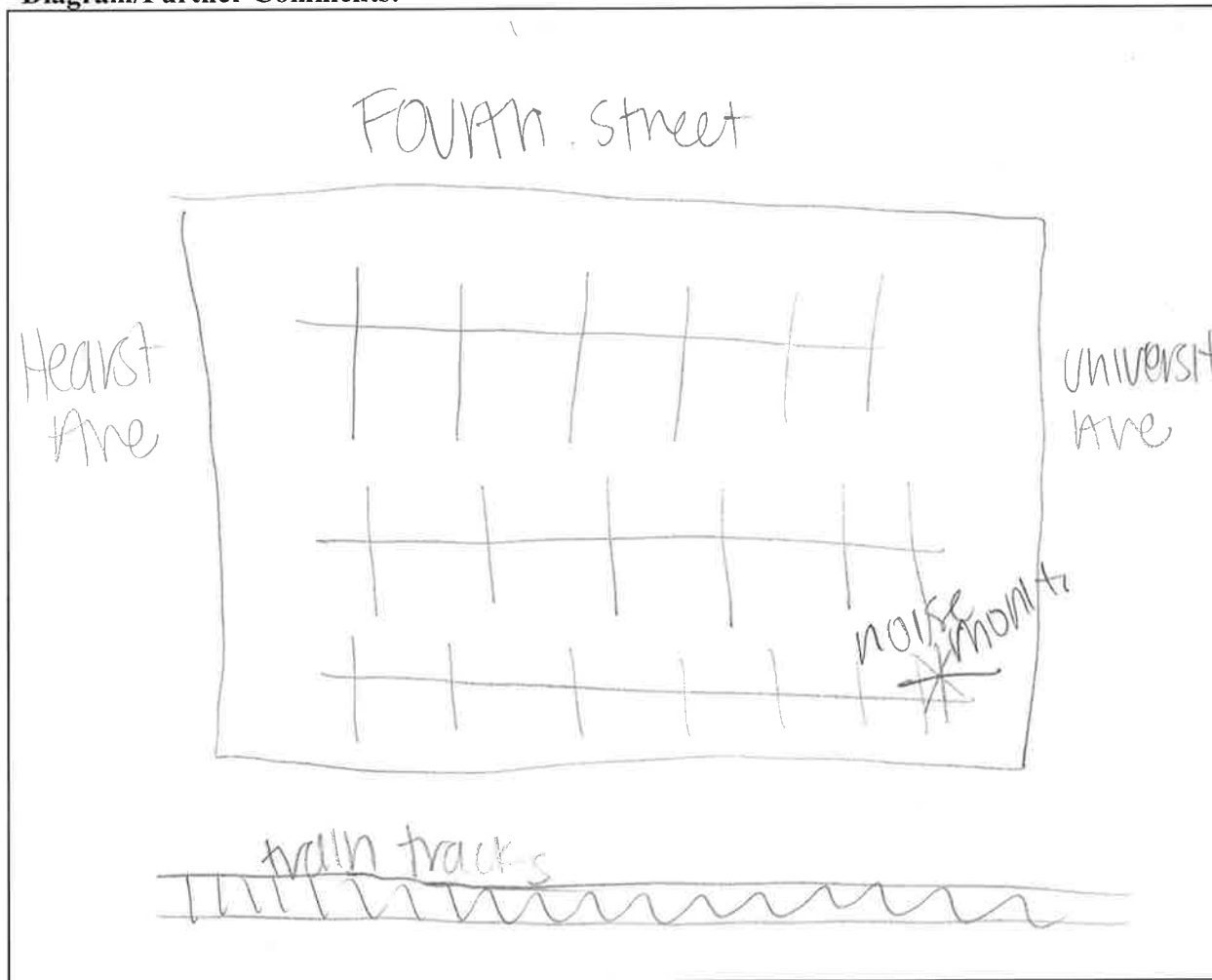
Photos Taken:

Photo Number	Location/Description

Traffic Description:

Roadway	# Lanes	Posted Speed	Average Speed	NB/EB Counts	SB/WB Counts

Diagram/Further Comments:



Project Number: CBE1504 Sheet of
 Project Name: 1900 Fourth Street
 Test Personnel: CARA CARUCCI

LxT_Data.015

Noise Measurement Survey

Site Number: ST3 Date: 2/5/10 Time: From 10.35 To 10.50

Site Location: 1900 Fourth Street Berkeley
Northwest corner of site

Primary Noise Sources: traffic, train, industrial noise,
people talking

Measurement Results

	dB(A)
Leq	81.1
Lmax	105.0
Lmin	63.8
Lpeak	118.8
L2	X
L8	
L25	
L50	
SEL	

Observed Noise Sources/Events

Time	Noise Source/Event	dB(A)
10:35	Train - Amtrak	87.5

Comments: _____

Equipment: Larson Davis Sound Track LXT
 Settings: A-Weighted Other _____

Calibration Offset: _____ dB(A)
 Slow Fast Windscreen

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
4.4	0.9	57.4	98	
Comments: <u>sunny</u>				

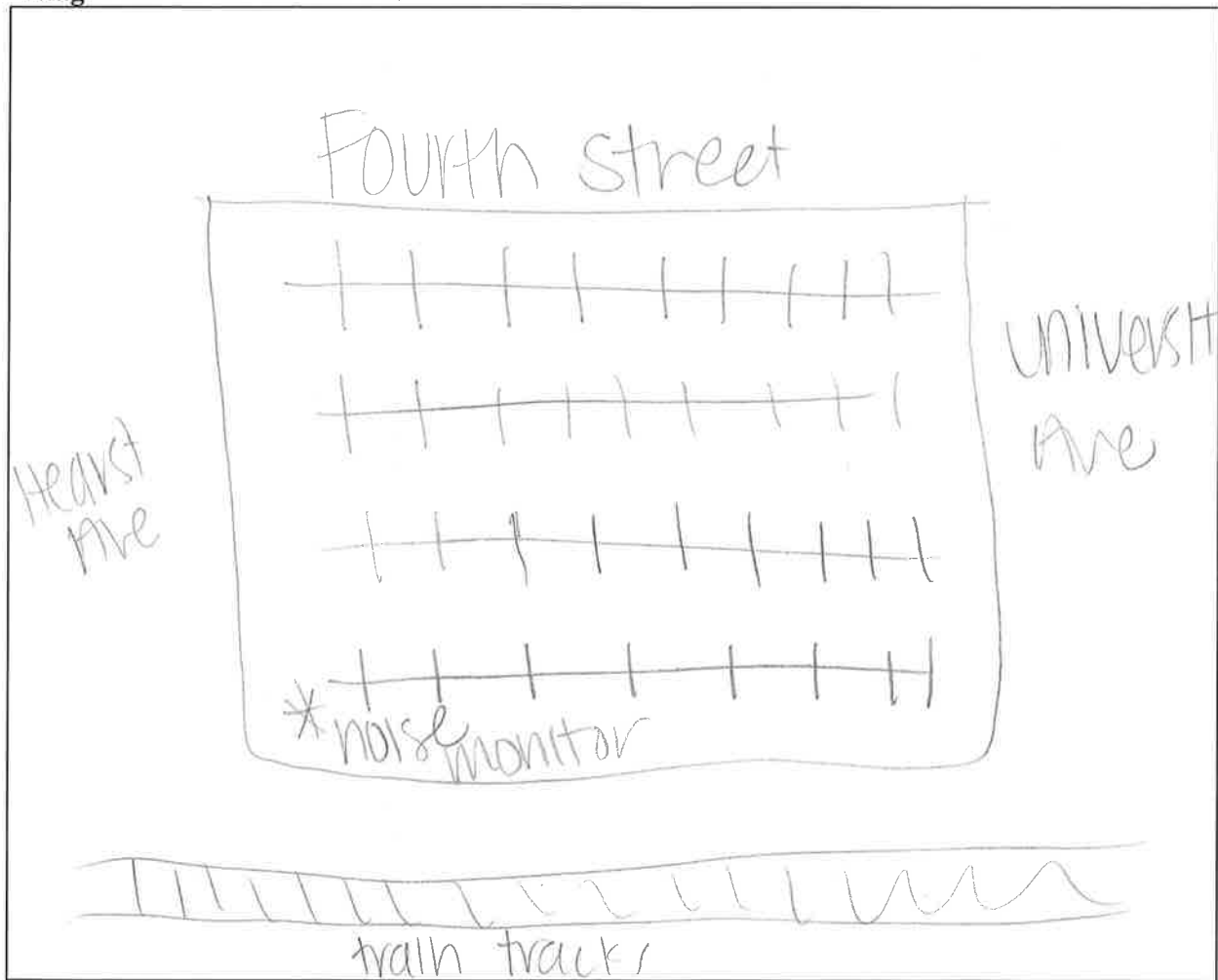
Photos Taken:

Photo Number	Location/Description

Traffic Description:

Roadway	# Lanes	Posted Speed	Average Speed	NB/EB Counts	SB/WB Counts

Diagram/Further Comments:



Project Number: CBE1504
 Project Name: 1900 Fourth Street
 Test Personnel: Cara Carlucci

Sheet of

LxT_Data.014

Noise Measurement Survey

Site Number: SF-4 Date: 2/5/14 Time: From 10:53 To 10:08

Site Location: 1900 Fourth Street Berkeley
Northeast corner of site

Primary Noise Sources: Cars, parking lot noise

Measurement Results

	dBA
Leq	78.5
Lmax	92.7
Lmin	64.5
Lpeak	112.0
L2	
L8	
L25	
L50	
SEL	

Observed Noise Sources/Events

Time	Noise Source/Event	dBA
10:58	Train - Amtrak	80.8

Comments: _____

Equipment: Larson Davis Sound Track LXT
 Settings: A-Weighted Other _____

Calibration Offset: _____ dBA
 Slow Fast Windscreen

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
1.8	0.8	68.8	45	
Comments: _____				

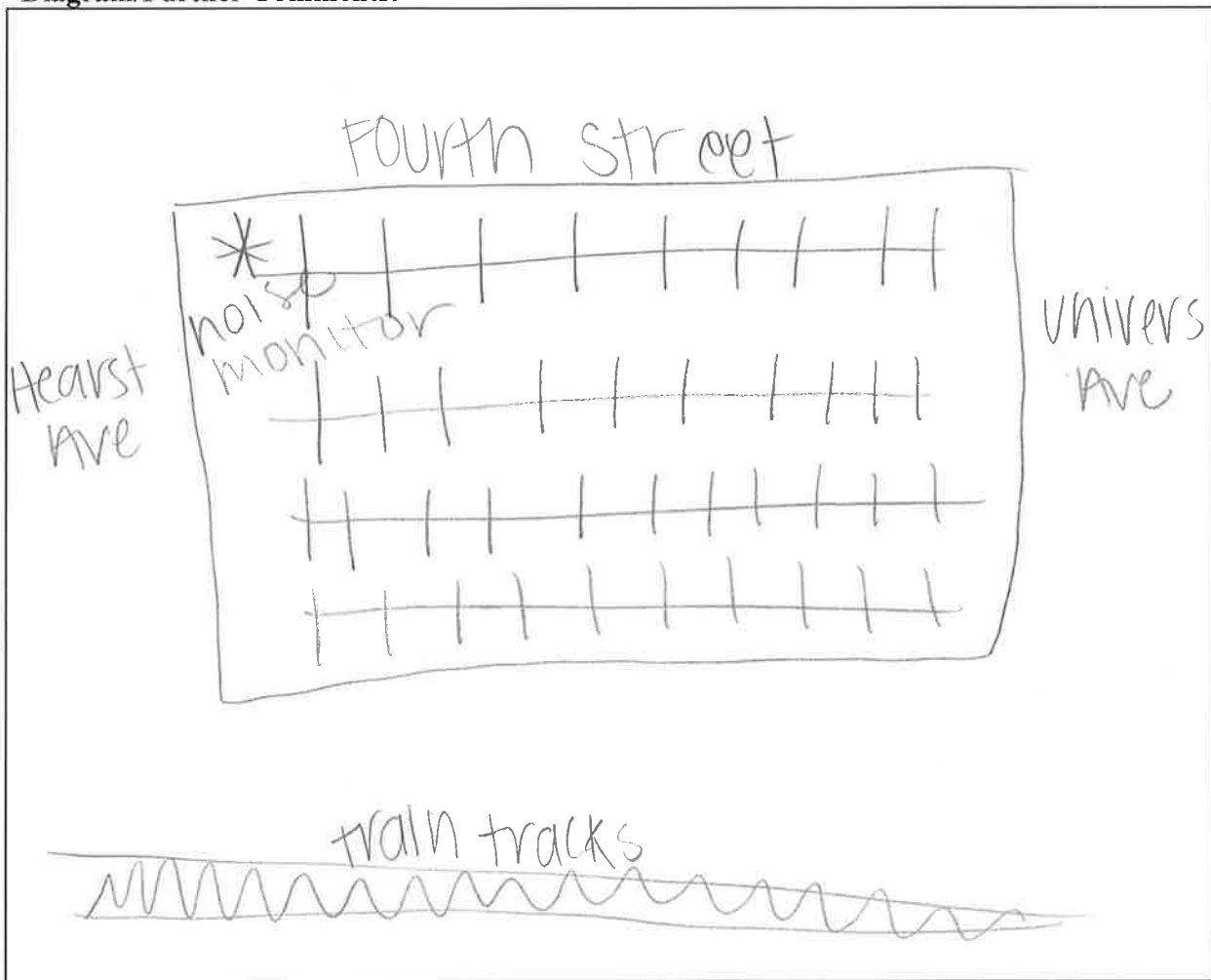
Photos Taken:

Photo Number	Location/Description

Traffic Description:

Roadway	# Lanes	Posted Speed	Average Speed	NB/EB Counts	SB/WB Counts

Diagram/Further Comments:



Project Number: CBE1504 Sheet of
 Project Name: 1900 Fourth Street
 Test Personnel: Cara Carlson

LXT-Data-017

Noise Measurement Survey

Site Number: ST-5 Date: 2/5/16 Time: From 11:10 To 11:25

Site Location: 1900 Fourth Street Berkeley
Center of site

Primary Noise Sources: traffic, train

Measurement Results

	dB(A)
Leq	85.0
Lmax	103.0
Lmin	69.1
Lpeak	116.1
L2	
L8	
L25	
L50	
SEL	

Observed Noise Sources/Events

Time	Noise Source/Event	dB(A)
11:12-11:15	train - UPRR	103.0

Comments: _____

Equipment: Larson Davis Sound Track LXT
 Settings: A-Weighted Other _____

Calibration Offset: _____ dB(A)
 Slow Fast Windscreen

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
0.5	2.8	66.0	100	
Comments: <u>Sunny</u>				

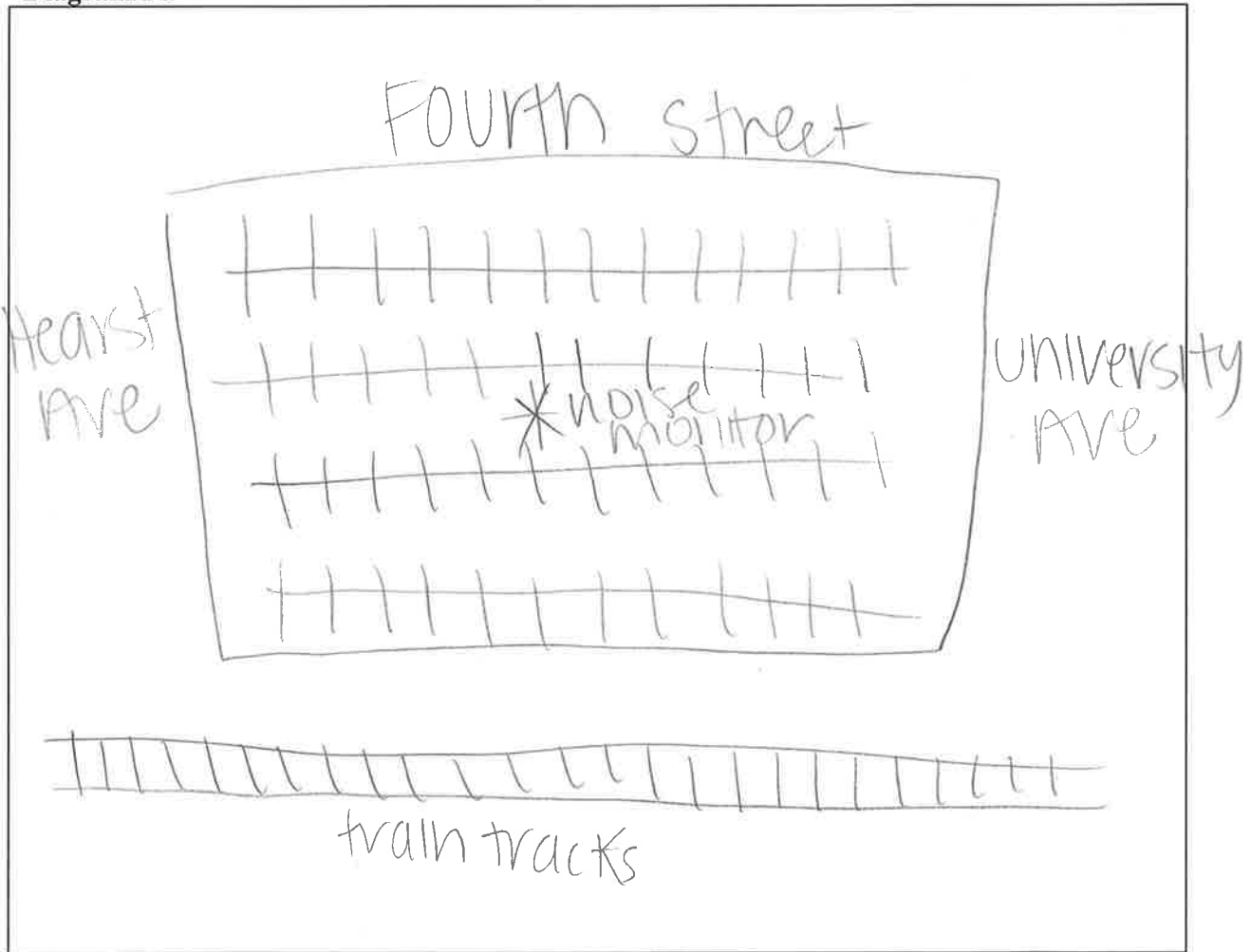
Photos Taken:

Photo Number	Location/Description

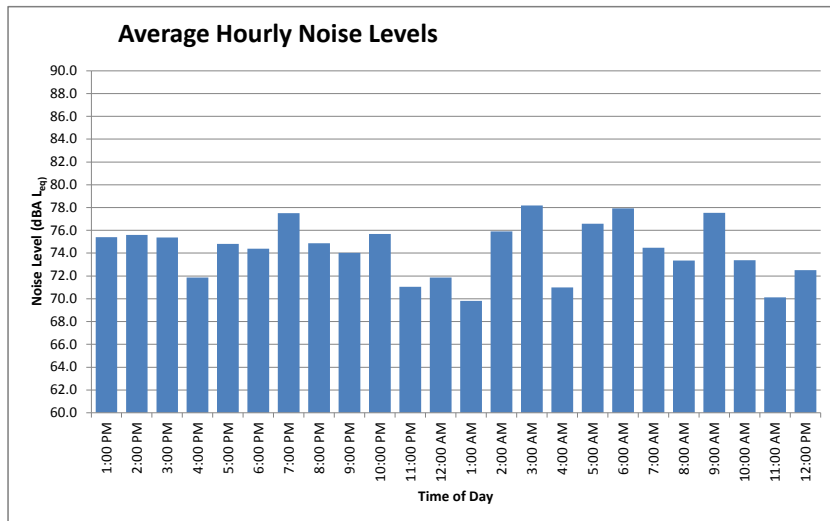
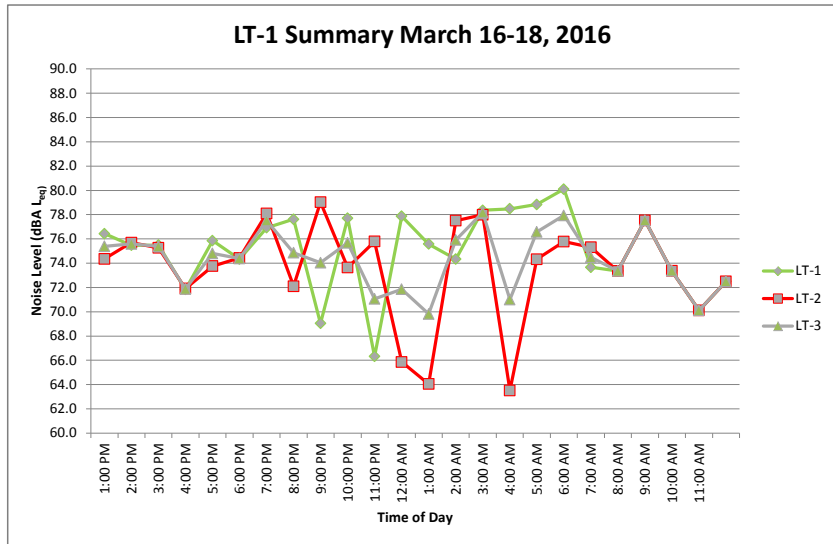
Traffic Description:

Roadway	# Lanes	Posted Speed	Average Speed	NB/EB Counts	SB/WB Counts

Diagram/Further Comments:



	Day 1	Day 2	Average	
1:00 PM	76.4	74.3	75.4	34586863
2:00 PM	75.5	75.7	75.6	36175742
3:00 PM	75.5	75.3	75.4	34486900
4:00 PM	71.8	71.9	71.9	15399815
5:00 PM	75.9	73.8	74.8	30258519
6:00 PM	74.3	74.4	74.4	27414968
7:00 PM	76.9	78.1	77.5	178206196
8:00 PM	77.6	72.1	74.9	96838786
9:00 PM	69.0	79.0	74.0	80112950
10:00 PM	77.7	73.6	75.7	369404256
11:00 PM	66.3	75.8	71.1	127471210
12:00 AM	77.9	65.9	71.9	153521381
1:00 AM	75.6	64.0	69.8	95842050
2:00 AM	74.3	77.5	75.9	390898878
3:00 AM	78.4	78.0	78.2	656955241
4:00 AM	78.5	63.5	71.0	125759930
5:00 AM	78.8	74.3	76.6	454817880
6:00 AM	80.1	75.8	77.9	621501706
7:00 AM	73.7	75.3	74.5	28085978
8:00 AM	73.4	73.4	73.4	21683062
9:00 AM	77.5	77.5	77.5	56624805
10:00 AM	73.4	73.4	73.4	21713338
11:00 AM	70.1	70.1	70.1	10252065
12:00 PM	72.5	72.5	72.5	17764005
Daytime	70.1	78.1	CNEL	81.9
Nighttime	66.3	79.0		



Vibration Measurement Survey

Project Number: CBE11504
 Project Name: 1900 4th Street Mixed-Use

Test Personnel: J.T. Stephens and Amy F.
 Equipment: Larson Davis LXT

Site Number: V1-V3 Date: 3-16-16

Time: From 1:00 pm To 4:00 pm

Site Location: Located along the western property line of the proposed project site. Each vibration site is located approximately 10 feet east of the property line

Primary Sources: Trains, both freight and passenger

Comments: Vibration measurements highly dependent on train type, length and speed

#1: 1:34 pm	
Measurement Results	
VdB	
Leg	79.0
Max	80.6

#2: 1:58 p.m.	
Measurement Results	
VdB	
Leg	78.6
Max	85.4

#3: 2:08 pm	
Measurement Results	
VdB	
Leg	73.9
Max	82.8

#4: 3:04 pm	
Measurement Results	
VdB	
Leg	73.1
Max	82.8

#5: 3:19 pm	
Measurement Results	
VdB	
Leg	73.5
Max	83.0

#6: 3:34 pm	
Measurement Results	
VdB	
Leg	75.9
Max	85.7

#7: 3:49 pm	
Measurement Results	
VdB	
Leg	67.2
Max	78.1

Noise Measurement List	
1	Amtrak – Location #1
2	Freight – Location #1
3	Freight – Location #2
4	Amtrak – Location #2
5	Amtrak – Location #2
6	Freight – Location #3
7	Amtrak – Location #3

Atmospheric Conditions	
Average Wind Velocity (mph)	5.0
Maximum Wind Velocity (mph)	7.0
Temperature (F)	68
Relative Humidity (%)	63

TABLE Existing Conditions-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: Hearst Avenue - 2nd Street to 4th Street
NOTES: 1900 Fourth Street Shopping Center - Existing Conditions

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2200 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.75

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Existing Conditions-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: Hearst Avenue - 4th Street to 6th Street
NOTES: 1900 Fourth Street Shopping Center - Existing Conditions

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4860 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.19

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	0.0	78.1

TABLE Existing Conditions-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: 4th Street - north of Hearst Avenue
NOTES: 1900 Fourth Street Shopping Center - Existing Conditions

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3030 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 55.14

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	0.0	57.1

TABLE Existing Conditions-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: 4th Street - Hearst Avenue to University Avenue
Frontage
NOTES: 1900 Fourth Street Shopping Center - Existing Conditions

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4080 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.43

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	0.0	69.6

TABLE Existing Conditions-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: 4th Street - south of University Avenue Frontage
NOTES: 1900 Fourth Street Shopping Center - Existing Conditions

*** ASSUMPTIONS ***

AVERAGE DAILY TRAFFIC: 3990 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

*** CALCULATED NOISE LEVELS ***

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.33

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	0.0	68.5

TABLE Existing Conditions-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: University Avenue Frontage - west of 4th Street
NOTES: 1900 Fourth Street Shopping Center - Existing Conditions

*** ASSUMPTIONS ***

AVERAGE DAILY TRAFFIC: 780 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

*** CALCULATED NOISE LEVELS ***

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 49.24

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	0.0	0.0

TABLE Existing Conditions-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: University Avenue Frontage - east of 4th Street
NOTES: 1900 Fourth Street Shopping Center - Existing Conditions

*** ASSUMPTIONS ***

AVERAGE DAILY TRAFFIC: 400 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

*** CALCULATED NOISE LEVELS ***

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 46.34

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	0.0	0.0

TABLE Existing Conditions-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: University Avenue - west of 6th Street
NOTES: 1900 Fourth Street Shopping Center - Existing Conditions

*** ASSUMPTIONS ***

AVERAGE DAILY TRAFFIC: 28340 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

*** CALCULATED NOISE LEVELS ***

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.62

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	65.1	122.2	254.0

TABLE Existing Conditions-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: University Avenue - east of 6th Street
NOTES: 1900 Fourth Street Shopping Center - Existing Conditions

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 20080 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.12

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	99.5	203.1

TABLE Existing Conditions-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: 6th Street - Hearst Avenue to University Avenue
NOTES: 1900 Fourth Street Shopping Center - Existing Conditions

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13360 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.58

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	71.2	152.9

TABLE Existing Conditions-11
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
 ROADWAY SEGMENT: 2nd Street - south of Hearst Avenue
 NOTES: 1900 Fourth Street Shopping Center - Existing Conditions

*** ASSUMPTIONS ***

AVERAGE DAILY TRAFFIC: 1150 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

*** CALCULATED NOISE LEVELS ***

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 50.93

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	0.0	0.0

TABLE Existing Conditions-12
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
 ROADWAY SEGMENT: University Avenue - west of San Pablo Avenue
 NOTES: 1900 Fourth Street Shopping Center - Existing Conditions

*** ASSUMPTIONS ***

AVERAGE DAILY TRAFFIC: 19380 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

*** CALCULATED NOISE LEVELS ***

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.69

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	93.8	196.9

TABLE Cumulative Conditions-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: Hearst Avenue - 2nd Street to 4th Street
NOTES: 1900 Fourth Street Shopping Center - Cumulative Conditions

*** ASSUMPTIONS ***

AVERAGE DAILY TRAFFIC: 2660 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

*** CALCULATED NOISE LEVELS ***

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 54.57

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	0.0	52.5

TABLE Cumulative Conditions-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: Hearst Avenue - 4th Street to 6th Street
NOTES: 1900 Fourth Street Shopping Center - Cumulative Conditions

*** ASSUMPTIONS ***

AVERAGE DAILY TRAFFIC: 5820 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

*** CALCULATED NOISE LEVELS ***

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.97

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	0.0	88.0

TABLE Cumulative Conditions-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: 4th Street - north of Hearst Avenue
NOTES: 1900 Fourth Street Shopping Center - Cumulative Conditions

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3960 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.30

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	0.0	68.2

TABLE Cumulative Conditions-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: 4th Street - Hearst Avenue to University Avenue
Frontage
NOTES: 1900 Fourth Street Shopping Center - Cumulative Conditions

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4870 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.20

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	0.0	78.2

TABLE Cumulative Conditions-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: 4th Street - south of University Avenue Frontage
NOTES: 1900 Fourth Street Shopping Center - Cumulative Conditions

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5020 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.33

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	0.0	79.8

TABLE Cumulative Conditions-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: University Avenue Frontage - west of 4th Street
NOTES: 1900 Fourth Street Shopping Center - Cumulative Conditions

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1330 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 51.56

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	0.0	0.0

TABLE Cumulative Conditions-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: University Avenue Frontage - east of 4th Street
NOTES: 1900 Fourth Street Shopping Center - Cumulative Conditions

*** ASSUMPTIONS ***

AVERAGE DAILY TRAFFIC: 500 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

*** CALCULATED NOISE LEVELS ***

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 47.31

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	0.0	0.0

TABLE Cumulative Conditions-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
ROADWAY SEGMENT: University Avenue - west of 6th Street
NOTES: 1900 Fourth Street Shopping Center - Cumulative Conditions

*** ASSUMPTIONS ***

AVERAGE DAILY TRAFFIC: 40500 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

*** CALCULATED NOISE LEVELS ***

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.17

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	77.6	152.4	321.0

TABLE Cumulative Conditions-09
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
 ROADWAY SEGMENT: University Avenue - east of 6th Street
 NOTES: 1900 Fourth Street Shopping Center - Cumulative Conditions

*** ASSUMPTIONS ***

AVERAGE DAILY TRAFFIC: 28680 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

*** CALCULATED NOISE LEVELS ***

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.67

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	65.4	123.0	256.0

TABLE Cumulative Conditions-10
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
 ROADWAY SEGMENT: 6th Street - Hearst Avenue to University Avenue
 NOTES: 1900 Fourth Street Shopping Center - Cumulative Conditions

*** ASSUMPTIONS ***

AVERAGE DAILY TRAFFIC: 20210 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

*** CALCULATED NOISE LEVELS ***

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.38

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	93.7	201.4

TABLE Cumulative Conditions-11
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
 ROADWAY SEGMENT: 2nd Street - south of Hearst Avenue
 NOTES: 1900 Fourth Street Shopping Center - Cumulative Conditions

*** ASSUMPTIONS ***

AVERAGE DAILY TRAFFIC: 1300 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

*** CALCULATED NOISE LEVELS ***

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 51.46

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	0.0	0.0

TABLE Cumulative Conditions-12
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/15/2016
 ROADWAY SEGMENT: University Avenue - west of San Pablo Avenue
 NOTES: 1900 Fourth Street Shopping Center - Cumulative Conditions

*** ASSUMPTIONS ***

AVERAGE DAILY TRAFFIC: 23710 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

*** CALCULATED NOISE LEVELS ***

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.57

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	0.0	106.5	224.8

