

# Appendix H

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*Environmental Noise Study Report and Supplementary Noise  
Modeling*



May 28, 2015

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The Towbes Group, Inc.  
Attn: Craig Minus  
21 East Victoria Street, Suite 200  
Santa Barbara, California 93101

***Subject: North Willow Springs Project, City of Goleta – Environmental Noise Study Report***

Dear Craig:

Dudek has completed an Environmental Noise Study Report for the North Willow Springs project located in the City of Goleta, California (Figures 1 and 2). The purpose of this report is to satisfy the City of Goleta's requirement for an acoustical analysis for the project.

The report presents a summary of the city's noise criteria applicable to the project (Section 1), a project background discussion (Section 2), the existing noise environment (Section 3), a future noise impacts analysis (Section 4), findings (Section 5), and conclusions (Section 6), and mitigations (Section 7).

Data used in our analysis were taken from project plans prepared by MAC Design Associates, dated December 13, 2013. Traffic volumes used in our analysis are based on data provided by Associated Transportation Engineers (ATE). A glossary of acoustical terms and definitions used in this report is included in Attachment 1.

## **1 NOISE CRITERIA**

The City of Goleta's noise level thresholds for the project are:

- Interior Living areas: 45 dBA CNEL.
- Exterior Living areas:
  - 60 dBA CNEL if no mitigation is provided;
  - 65 dBA CNEL if mitigation is provided.
- Recreation / play areas: 65 dBA CNEL.

The above noise level thresholds have been used to evaluate the noise impacts for the project's interior and outdoor living areas.

## **2 PROJECT BACKGROUND**

The project occupies 16.2 acres, and is located at the southwest corner of Los Carneros Road and U.S. Highway 101 in the City of Goleta, California (Figures 1 and 2). The project consists of a total of 360 multi-family homes within eight separate 2- and 3-story buildings, with associated outdoor recreational facilities (pool areas, etc.), as well as a public park. The proposed site plan for the development is illustrated in Figure 3.

## **3 EXISTING NOISE ENVIRONMENT**

The project site is primarily exposed to traffic noise from U.S. Highway 101 and train noise from the Union Pacific Railroad line, located to the north of the project site. The U.S. Highway 101 carries a current traffic volume of approximately 71,000 average daily trips (ADT) (Source: Caltrans). The existing noise environment at the site was monitored on Thursday through Friday, March 13–14, 2014. One short-term (6-minute duration) noise measurement and one long-term (24-hour duration) noise measurement was conducted on site. Both measurements were conducted in the same location (see Figure 3); adjacent to the northern project boundary, approximately mid-site in the east-west direction. During the short-term noise measurement, traffic on U.S. Highway 101 was counted and noted. The traffic counts and the short-term noise level data were used to calibrate the traffic noise model.

The noise measurements were taken using a Larson Davis 700 integrating sound level meter, with A-weighting and “slow” response settings. This sound level meter meets the current American National Standards Institute standard for a Type 1 precision sound level meter. The sound level meter was calibrated before and after the readings. The measurement microphone was located at a height of 5 feet above the graded surface.

During the short-term noise measurement, the principal contributor to the ambient noise environment at the project site was traffic noise from the U.S. Highway 101. The U.S. Highway 101 traffic was observed to move smoothly during the measurements. Other noise sources observed during the measurements included distant construction noise. No trains passed by the site during the short-term noise measurement, although rail noise was a contributor during the long-term noise measurement. The noise level measurement results are presented in Table 1.

Santa Barbara Airport is located approximately 0.55 miles (3,000 feet) south of the project site. According to the Santa Barbara Airport Noise Information Website ([http://www.flysba.com/inside\\_sba/noise\\_abatement](http://www.flysba.com/inside_sba/noise_abatement), accessed 2/5/2014), the project site is located approximately 1,200

feet outside of the airport’s Year 2008 60 dB CNEL noise contour and approximately 1,500 feet outside of the airport’s Year 2025 60 dB CNEL noise contour.

**Table 1**  
**Measured Noise Levels**

Monitor Location	Date/Time	Leq <sup>1</sup>	CNEL
Adjacent to northern project boundary, approximately mid-site in east-west direction	3/13/2014 1:10 p.m. - 1:16 p.m.	54 dBA	n/a
	3/13/2014 2:00 p.m. - 3/14/2014 2:00 p.m.	62 dBA	67 dBA

Notes: Weather conditions: Temperature 64 degrees F; 69% Relative humidity; partly cloudy skies; 2 mph southerly wind.

<sup>1</sup> Equivalent Continuous Sound Level.

#### **4 FUTURE NOISE IMPACTS ANALYSIS**

U.S. Highway 101 vehicular traffic and trains along the UPRR rail line (and, along the project’s west side, vehicle traffic on Los Carneros Road) are expected to remain the primary noise sources at the project site in the future. The future noise levels at the project’s building facades and the outdoor recreational areas (pools areas, park) were calculated using the Federal Highway Administration's (FHWA) Traffic Noise Model (TNM v. 2.5). The traffic noise model was calibrated using the short-term noise level shown in Table 1. The difference between the monitored and calibrated noise levels is less than 1 dBA, which is well within the accuracy of the noise monitoring and modeling programs.

The following existing and future year (i.e., cumulative projects) AM/PM peak-hour traffic volumes used in this analysis were provided by Associated Transportation Engineers (ATE):

##### **U.S. Highway 101 at Los Carneros Road:**

- Existing: 5,898 AM / 5,843 PM
- Existing plus Project: 5,942 AM / 5,889 PM
- Cumulative: 7,047 AM / 8,978 PM
- Cumulative plus Project: 7,091AM / 9,024 PM

##### **Los Carneros Road south of U.S. Highway 101:**

- Existing: 1,901 AM / 2,380 PM
- Existing plus Project: 1,972 AM / 2,453 PM
- Cumulative: 2,739 AM / 3,266 PM
- Cumulative plus Project: 2,810AM / 3,333 PM



**U.S. Highway 101 southbound off-ramp at Los Carneros Road:**

- Existing: 352 AM / 144 PM
- Existing plus Project: 354 AM / 150 PM
- Cumulative: 526 AM / 184 PM
- Cumulative plus Project: 528AM / 190 PM

**U.S. Highway 101 southbound on-ramp at Los Carneros Road:**

- Existing: 431 AM / 1004 PM
- Existing plus Project: 466 AM / 1019 PM
- Cumulative: 559 AM / 1330 PM
- Cumulative plus Project: 594AM / 1339 PM

The vehicle mix on the U.S. 101 Highway is 91% automobiles, 6% medium trucks, and 3% heavy trucks (data provided by Caltrans). The vehicle mix used for Los Carneros Road is 95% automobiles, 2% medium trucks and 3% heavy trucks. The input into the computer model includes the above-referenced existing and future traffic volumes and vehicle mix, with an average vehicle speed of 65 mph along the U.S. 101 Highway, and 45 mph along Los Carneros Road.

Train noise emissions from operations along the UPRR tracks were evaluated using the results of the long-term noise measurement. The resultant combined traffic and rail noise levels at the proposed exterior building facades was calculated and presented using Cadna/A®. Cadna/A® is a computer program for the calculation and assessment of noise levels from transportation noise sources, industrial facilities and other noise sources. Cadna/A® uses internationally recognized algorithms (ISO 9613-2) for the propagation of sound outdoors to calculate noise effects. The program allows for input of all pertinent features (such as terrain or structures) that affect noise, resulting in a highly accurate estimate of existing and future noise levels. For this project, the most current site plan was utilized to input the estimated finished grade elevations and building footprints and heights. Based upon client information a planned developer-constructed masonry wall of approximately 6 foot in height along the northern and western project boundaries was included in the noise model.

The results of the future exterior noise analysis with a 6 foot high wall are summarized in Table 2 (modeled receiver locations are shown in Figure 4). A copy of the vehicle noise prediction model calculation sheets is included in Attachment 2.

**Table 2**  
**Cumulative plus Project - Modeled Exterior Noise Levels (dBA CNEL) – 6’ High Wall at Northern and Western Project Boundaries**

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
<i>Building 1</i>			
R1-1	60	59	--
R1-2	61	61	--
R1-3	58	57	--
R1-4	55	53	--
R1-5	43	43	--
R1-6	60	59	--
R1-7	60	60	--
R1-8	60	60	--
R1-9	61	60	--
R1-10	60	60	--
<i>Building 2</i>			
R2-1	61	61	--
R2-2	61	61	--
R2-3	61	61	--
R2-4	61	61	--
R2-5	59	59	--
R2-6	53	51	--
R2-7	54	53	--
R2-8	55	54	--
R2-9	54	54	--
R2-10	51	50	--
R2-11	57	56	--
R2-12	58	58	--

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
<i>Building 4</i>			
R4-1	65	64	--
R4-2	67	67	--
R4-3	68	67	--
R4-4	67	67	--
R4-5	67	67	--
R4-6	66	66	--
R4-7	67	67	--
R4-8	67	67	--
R4-9	68	67	--
R4-10	67	67	--
R4-11	65	64	--
R4-12	64	64	--
R4-13	64	64	--
R4-14	64	64	--
R4-15	60	58	--
R4-16	59	58	--
R4-17	53	52	--
R4-18	54	53	--
R4-19	53	52	--
R4-20	52	51	--
R4-21	52	51	--
R4-22	47	46	--
R4-23	61	60	--

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
<i>Building 7</i>			
R 7-11	48	48	55
R 7-12	48	48	55
R 7-13	55	54	58
R 7-14	54	54	58
R 7-15	46	45	52
R 7-16	59	59	63
R 7-17	54	54	62
R 7-18	63	62	66
R 7-19	65	64	67
<i>Building 8</i>			
R 8-1	66	66	71
R 8-2	66	66	71
R 8-3	66	66	71
R 8-4	67	66	71
R 8-5	67	67	71
R 8-6	66	66	71
R 8-7	67	67	71
R 8-8	67	67	71
R 8-9	67	67	71
R 8-10	67	67	71
R 8-11	66	65	69
R 8-12	57	57	60
R 8-13	63	63	66

**Table 2**  
**Cumulative plus Project - Modeled Exterior Noise Levels (dBA CNEL) – 6’ High Wall at Northern and Western Project Boundaries**

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
R2-13	60	59	--
R2-14	60	60	--
R2-15	60	59	--
R2-16	57	56	--
R2-17	48	48	--
R2-18	48	48	--
R2-19	51	50	--
R2-20	50	49	--
R2-21	44	44	--
R2-22	44	44	--
R2-23	44	44	--
R2-24	45	45	--
R2-25	54	54	--
R2-26	58	58	--
R2-27	58	58	--
R2-28	58	58	--
R2-29	60	59	--
R2-30	61	61	--
<i>Building 3</i>			
R3-1	58	58	--
R3-2	59	59	--
R3-3	62	62	--
R3-4	64	64	--
R3-5	65	65	--

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
R4-24	63	63	--
<i>Building 5</i>			
R 5-1	67	67	--
R 5-2	68	67	--
R 5-3	67	67	--
R 5-4	67	67	--
R 5-5	66	66	--
R 5-6	67	67	--
R 5-7	67	67	--
R 5-8	68	67	--
R 5-9	67	67	--
R 5-10	65	64	--
R 5-11	62	61	--
R 5-12	60	60	--
R 5-13	49	48	--
R 5-14	50	49	--
R 5-15	46	46	--
R 5-16	48	48	--
R 5-17	47	46	--
R 5-18	63	63	--
R 5-19	64	64	--
R 5-20	65	65	--
<i>Building 6</i>			
R6-1	54	54	58

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
R 8-14	63	63	66
R 8-15	47	46	54
R 8-16	45	44	50
R 8-17	45	44	50
R 8-18	44	44	49
R 8-19	45	44	49
R 8-20	46	45	49
R 8-21	45	45	52
R 8-22	45	45	52
R 8-23	45	45	51
R 8-24	62	62	67
<i>Pool / Recreation Areas</i>			
Pool Rec 1	60	--	--
Pool Rec 2	60	--	--
Pool Rec 3	57	--	--
Pool Rec 4	60	--	--
Pool Rec 5	60	--	--
Pool Rec 6	57	--	--
Pool Rec 7	54	--	--
Pool Rec 8	51	--	--
Pool Rec 9	49	--	--
Pool Rec 10	57	--	--
Pool Rec 11	51	--	--
Pool Rec 12	51	--	--

**Table 2**  
**Cumulative plus Project - Modeled Exterior Noise Levels (dBA CNEL) – 6’ High Wall at Northern and Western Project Boundaries**

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
R3-6	65	64	--
R3-7	65	65	--
R3-8	65	65	--
R3-9	65	66	--
R3-10	65	65	--
R3-11	65	65	--
R3-12	65	65	--
R3-13	65	64	--
R3-14	58	56	--
R3-15	56	55	--
R3-16	54	53	--
R3-17	52	52	--
R3-18	51	51	--
R3-19	51	50	--
R3-20	51	51	--

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
R6-2	55	55	58
R6-3	57	57	60
R6-4	57	57	60
R6-5	57	57	60
R6-6	45	44	49
<i>Building 7</i>			
R 7-1	68	68	72
R 7-2	68	68	72
R 7-3	68	68	72
R 7-4	67	67	72
R 7-5	64	64	69
R 7-6	61	60	65
R 7-7	55	55	60
R 7-8	44	44	50
R 7-9	44	44	50
R 7-10	48	48	55

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
Pool Rec 13	51	--	--
Pool Rec 14	47	--	--
Pool Rec 15	46	--	--
Pool Rec 16	47	--	--
Pool Rec 17	46	--	--
Pool Rec 18	52	--	--
Pool Rec 19	55	--	--
Pool Rec 20	54	--	--
Pool Rec 21	59	--	--
Pool Rec 22	57	--	--
Pool Rec 23	57	--	--
Pool Rec 24	58	--	--
Pool Rec 25	56	--	--
Pool Rec 26	58	--	--
Pool Rec 27	58	--	--
Pool Rec 28	60	--	--
Pool Rec 29	60	--	--

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## 5 FINDINGS

### 5.1 Exterior Noise Levels

The data shown in Table 2 indicate that with a 6 foot high perimeter wall, cumulative plus project traffic and rail noise levels at the project site range up to 72 dBA CNEL at the Building 7 façade, and between 46 and 60 dBA CNEL in the outdoor recreation/pool areas. The outdoor recreation/pool noise levels meet the City of Goleta 65 dBA CNEL exterior noise level compatibility criteria for recreation/play areas without mitigation. Although the architectural design of the proposed project has not yet been finalized, it is planned that many if not all of the residential units would include balconies. Based upon the noise levels shown in Table 2, the City of Goleta’s 60 dBA CNEL noise standard for exterior living areas would be exceeded at balconies facing U.S. 101 and the UPRR rail line as well as those facing Los Carneros Road.

In order to reduce the noise levels at the building facades, construction of an 8 foot high soundwall along the northern project boundary (facing the U.S. 101 and the UPRR rail line) is proposed as a mitigation measure. The resultant noise levels with the 8 foot high wall on the northern project boundary and the 6 foot high wall on the western project boundary were calculated in the same manner as described in Section 4. The results are summarized in Table 3. A figure showing representative cross-sections for exposures from U.S. 101 and the UPRR rail line as well as Los Carneros Road is provided as Figure 5.

As shown in Table 3, noise levels at first and second-floor uses would generally be reduced. With an 8 foot high wall the number of units in the 60-65 dBA CNEL range would be reduced by 17 and the number of units in the 66-70 dBA CNEL range would be reduced by 4; there would be no change in the number of units above 70 CNEL. Based upon the noise levels shown in Table 3, the City of Goleta’s 65 dBA CNEL noise standard for exterior living areas with mitigation provided would be exceeded at balconies facing U.S. 101 and the UPRR rail line and Los Carneros Road unless additional mitigation is provided (refer to Section 7).

### 5.2 Interior Noise Levels

Standard construction materials and techniques used for residential developments in Southern California normally result in a minimum exterior to interior noise attenuation of 15 dBA with windows open and 20 dBA with windows closed. The data in Table 2 indicate that future noise levels at the façade are estimated to range between 43 and 72 dBA CNEL. Therefore, the interior noise level in the units is expected to range between be 28 and 57 dBA CNEL with windows open and between 23 and 52 dBA CNEL with windows closed. The noise levels would exceed the City of Goleta 45 dB CNEL interior noise level compatibility criteria with windows open or

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closed. Thus, mitigation will be required in order to achieve compliance with the interior noise criterion (refer to Section 7).

**Table 3**  
**Cumulative plus Project - Modeled Exterior Noise Levels (dBA CNEL) – 8’ High Wall at Northern Project Boundary, 6’ High Wall at Western Project Boundary**

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
<i>Building 1</i>			
R1-1	55	61	65
R1-2	57	63	65
R1-3	58	59	60
R1-4	54	56	57
R1-5	43	45	47
R1-6	58	60	61
R1-7	59	61	61
R1-8	59	60	61
R1-9	58	61	62
R1-10	56	61	64
<i>Building 2</i>			
R2-1	59	61	63
R2-2	58	61	63
R2-3	58	61	63
R2-4	58	61	63
R2-5	55	59	61
R2-6	49	51	55
R2-7	50	53	55
R2-8	52	55	57

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
<i>Building 4</i>			
R4-1	63	66	--
R4-2	66	68	--
R4-3	66	69	--
R4-4	66	68	--
R4-5	66	68	--
R4-6	65	67	--
R4-7	66	68	--
R4-8	65	68	--
R4-9	66	69	--
R4-10	66	69	--
R4-11	64	67	--
R4-12	63	67	--
R4-13	63	67	--
R4-14	63	67	--
R4-15	55	60	--
R4-16	55	60	--
R4-17	50	53	--
R4-18	50	54	--
R4-19	50	54	--

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
<i>Building 7</i>			
R 7-11	48	51	55
R 7-12	48	51	55
R 7-13	53	56	58
R 7-14	52	56	58
R 7-15	45	50	52
R 7-16	58	62	63
R 7-17	54	60	62
R 7-18	62	65	66
R 7-19	63	66	67
<i>Building 8</i>			
R 8-1	64	68	71
R 8-2	65	68	71
R 8-3	65	68	71
R 8-4	65	68	71
R 8-5	65	68	71
R 8-6	65	68	71
R 8-7	65	68	71
R 8-8	65	68	71
R 8-9	66	68	71



**Table 3**  
**Cumulative plus Project - Modeled Exterior Noise Levels (dBA CNEL) – 8’ High Wall at Northern Project Boundary, 6’ High Wall at Western Project Boundary**

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
R2-9	51	54	55
R2-10	47	50	53
R2-11	53	56	58
R2-12	55	58	60
R2-13	57	59	61
R2-14	57	60	61
R2-15	57	60	61
R2-16	55	60	61
R2-17	47	56	58
R2-18	47	54	56
R2-19	48	53	55
R2-20	47	52	54
R2-21	44	45	47
R2-22	44	45	47
R2-23	44	46	47
R2-24	45	46	48
R2-25	53	55	58
R2-26	57	59	60
R2-27	57	58	60
R2-28	57	58	60
R2-29	58	60	61
R2-11	53	56	58
<i>Building 3</i>			
R3-1	58	61	--

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
R4-20	49	53	--
R4-21	49	52	--
R4-22	46	49	--
R4-23	59	62	--
R4-24	61	64	--
<i>Building 5</i>			
R 5-1	66	68	--
R 5-2	66	68	--
R 5-3	66	68	--
R 5-4	66	68	--
R 5-5	64	67	--
R 5-6	66	68	--
R 5-7	65	68	--
R 5-8	66	68	--
R 5-9	66	68	--
R 5-10	63	66	--
R 5-11	60	63	--
R 5-12	59	62	--
R 5-13	48	51	--
R 5-14	48	52	--
R 5-15	46	51	--
R 5-16	47	51	--
R 5-17	46	51	--
R 5-18	62	64	--

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
R 8-10	66	68	71
R 8-11	64	67	69
R 8-12	56	58	60
R 8-13	62	64	66
R 8-14	62	64	65
R 8-15	46	50	54
R 8-16	44	46	50
R 8-17	44	46	49
R 8-18	44	46	48
R 8-19	44	46	49
R 8-20	45	47	49
R 8-21	45	48	52
R 8-22	45	48	52
R 8-23	45	47	51
R 8-24	60	64	66
<i>Pool / Recreation Areas</i>			
Pool Rec 1	57	--	--
Pool Rec 2	57	--	--
Pool Rec 3	55	--	--
Pool Rec 4	57	--	--
Pool Rec 5	57	--	--
Pool Rec 6	54	--	--
Pool Rec 7	53	--	--
Pool Rec 8	50	--	--

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**Table 3**

**Cumulative plus Project - Modeled Exterior Noise Levels (dBA CNEL) – 8’ High Wall at Northern Project Boundary, 6’ High Wall at Western Project Boundary**

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
R3-2	59	61	--
R3-3	62	64	--
R3-4	63	66	--
R3-5	63	66	--
R3-6	63	65	--
R3-7	63	65	--
R3-8	63	65	--
R3-9	63	65	--
R3-10	63	65	--
R3-11	63	65	--
R3-12	63	65	--
R3-13	63	65	--
R3-14	54	57	--
R3-15	52	55	--
R3-16	51	54	--
R3-17	52	54	--
R3-18	51	54	--
R3-19	51	54	--
R3-20	51	55	--

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
R 5-19	63	65	--
R 5-20	64	66	--
<i>Building 6</i>			
R6-1	54	56	58
R6-2	55	56	58
R6-3	56	58	60
R6-4	57	59	60
R6-5	56	58	59
R6-6	43	46	49
<i>Building 7</i>			
R 7-1	66	69	72
R 7-2	66	69	72
R 7-3	66	69	72
R 7-4	65	69	72
R 7-5	62	66	69
R 7-6	59	62	64
R 7-7	54	58	59
R 7-8	44	46	50
R 7-9	44	46	50
R 7-10	48	51	55

Name	1st Flr Façade	2nd Flr Façade	3rd Flr Façade
Pool Rec 9	48	--	--
Pool Rec 10	55	--	--
Pool Rec 11	49	--	--
Pool Rec 12	51	--	--
Pool Rec 13	51	--	--
Pool Rec 14	47	--	--
Pool Rec 15	46	--	--
Pool Rec 16	47	--	--
Pool Rec 17	46	--	--
Pool Rec 18	52	--	--
Pool Rec 19	53	--	--
Pool Rec 20	54	--	--
Pool Rec 21	58	--	--
Pool Rec 22	56	--	--
Pool Rec 23	56	--	--
Pool Rec 24	57	--	--
Pool Rec 25	56	--	--
Pool Rec 26	57	--	--
Pool Rec 27	57	--	--
Pool Rec 28	58	--	--
Pool Rec 29	57	--	--

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## 6 CONCLUSIONS

Dudek has completed an Environmental Noise Study Report for the North Willow Springs project located in the City of Goleta, California. The findings of the analysis indicate that the noise levels predicted in the shared recreation and poolside areas are expected to meet the City of Goleta 65 dBA CNEL exterior noise standard. Predicted exterior noise levels at the building facades having a direct view of U.S. 101, the UPRR rail line and Los Carneros Road would exceed the City's 65 dBA CNEL exterior noise standard unless additional mitigation is provided (refer to Section 7).

The interior noise levels in the units are estimated to range between 23 and 52 dBA CNEL with windows closed. These noise levels would exceed the City of Goleta's 45 dBA CNEL interior noise level compatibility criteria for residences unless mitigated (refer to Section 7)

## 7 MITIGATION

### 7.1 Outdoor Living Area Noise Level

Noise barriers at affected balconies of up to 7 feet in height are required to mitigate traffic and train noise to meet the City's 65 dBA CNEL noise level criterion for exterior living areas at the north facing balconies of Buildings 3, 4, 5, 7 and 8. The noise barriers may be constructed of a material such as tempered glass, acrylic glass, or any masonry material with a surface density of at least three pounds per square foot. The noise barriers should have no openings or cracks. Once building elevations and exterior design details are finalized, further noise evaluation should be performed in order to prescribe the height of necessary noise barrier per balcony area.

### 7.2 Interior Noise Level

To comply with the City and State's 45 dB CNEL interior noise standard, the residential dwelling units adjacent to U.S. 101 and the UPRR rail line to the north and Los Carneros Road to the west would most likely require mechanical ventilation system or air conditioning system and possibly sound-rated windows. Thus, prior to the approval of building permits, the applicant shall submit an interior noise study for approval by the City of Goleta Planning Department. This interior noise study would address the dwelling units facing U.S. 101, the rail line and Los Carneros Road within Buildings 1, 2, 3, 4, 5, 7 and 8. The interior noise study would ensure compliance with the City and State's 45 dB CNEL noise standard.

\* \* \*

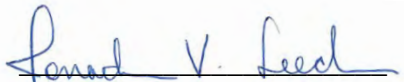
*Mr. Craig Minus*

*Subject: North Willow Springs Project, City of Goleta – Environmental Noise Study Report*


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This completes our Environmental Noise Study Report for the North Willow Springs Project. Should you have any questions regarding the above information, please do not hesitate to call me at 805.963.0651.

Respectfully submitted,



Jonathan V. Leech, INCE  
Senior Environmental Planner/Acoustician



Mike Greene, INCE Bd. Cert  
Environmental Specialist/Acoustician

*Att.: Figures 1–5*  
*1, Acoustical Terms and Definitions*  
*2, Noise Modeling Input/ Output*

*Mr. Craig Minus*

*Subject: North Willow Springs Project, City of Goleta – Environmental Noise Study Report*

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## **REFERENCES**

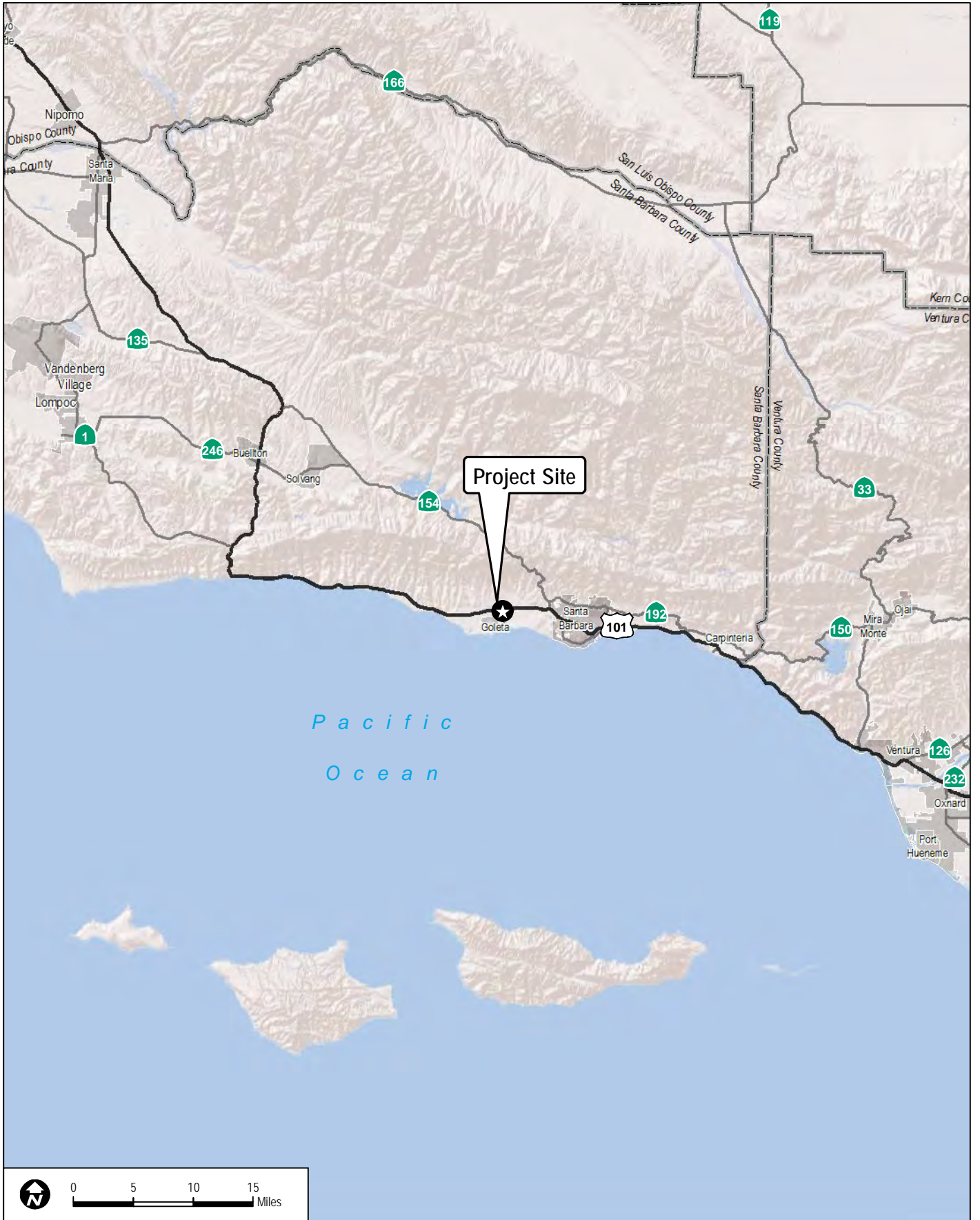
City of Goleta. November 2006.

*City of Goleta General Plan/Coastal Land Use Plan, Chapter 9.0, Noise Element.*

Federal Highway Administration (FHWA). 2004. FHWA Traffic Noise Model, Version 2.5. Office of Environment and Planning.

Scott A. Schell, AICP, Associated Transportation Engineers (ATE). April 2014

*Willow Springs North Project, City of Goleta, California – Traffic, Circulation and Parking Study.*



0 5 10 15 Miles

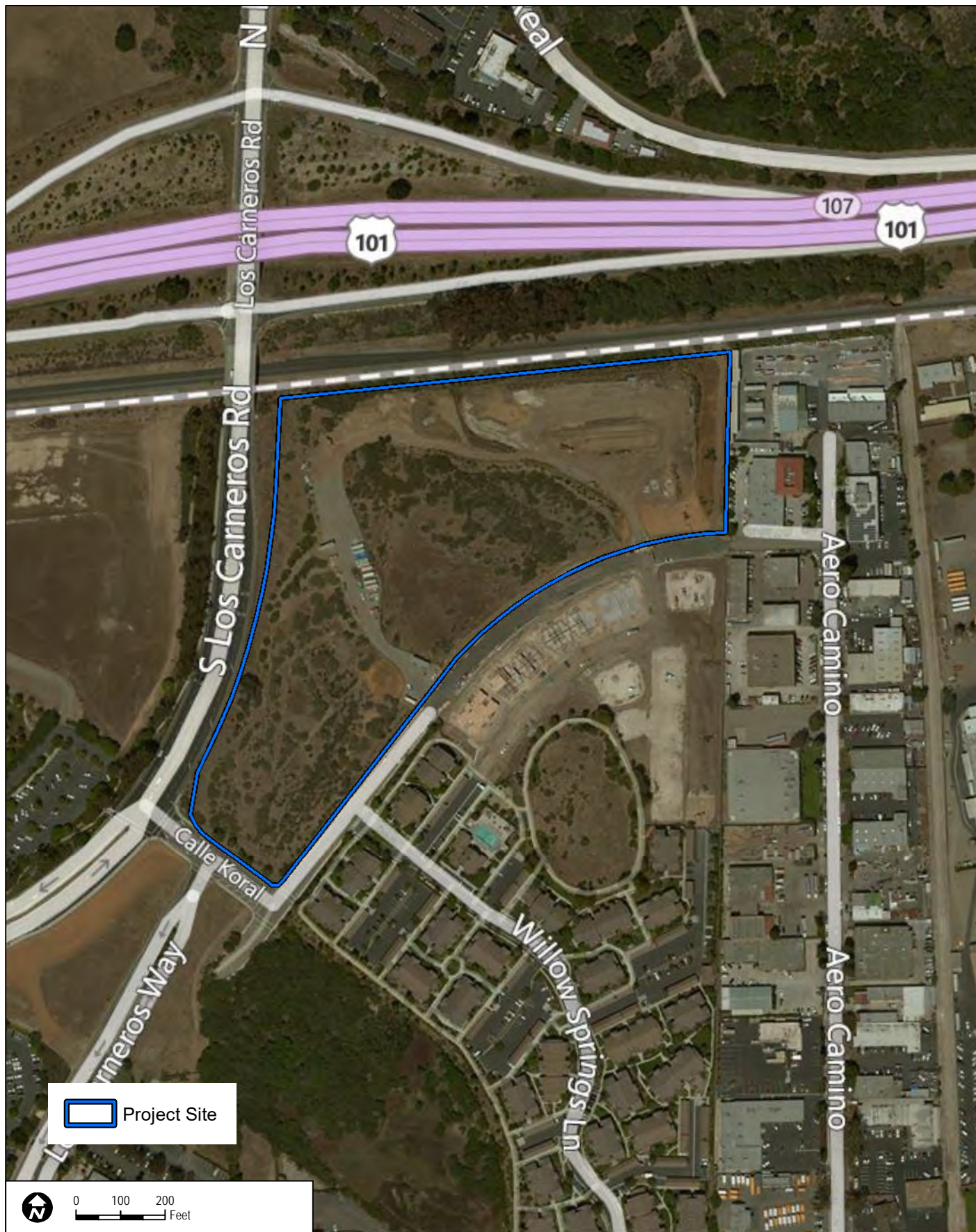
**DUDEK**

8169

North Willow Springs Acoustical Assessment Report

**FIGURE 1**  
**Regional Location Map**





**DUDEK**

SOURCE: BING MAPPING SERVICE

8169

North Willow Springs Acoustical Assessment Report

**FIGURE 2**  
**Project Vicinity Map**



**2-Story Workforce Housing**

- 80 Homes
  - 56 One-Bedroom Homes
  - 24 Three Bedroom Homes
- Parking Per City of Goleta Zoning: 132 Spaces (See Note 1)
- Parking Provided: 117 Spaces (See Notes 2 and 3)
  - 60 Carport (incl. 2 accessible)
  - 57 Open (incl. 3 accessible)

**Senior Housing**

- 132 Homes
  - 108 One-Bedroom Homes
  - 24 Two-Bedroom Homes
- Three Story
- Parking per City of Goleta Zoning: 183 Spaces (See Note 1)
- Parking Provided: 152 Spaces (See Notes 2 and 3)
  - 112 carport (incl. 3 accessible)
  - 40 Open (Incl. 1 accessible + 1 van Accessible)
- Mailboxes to be located in the Lobby

**3-Story Workforce Housing**

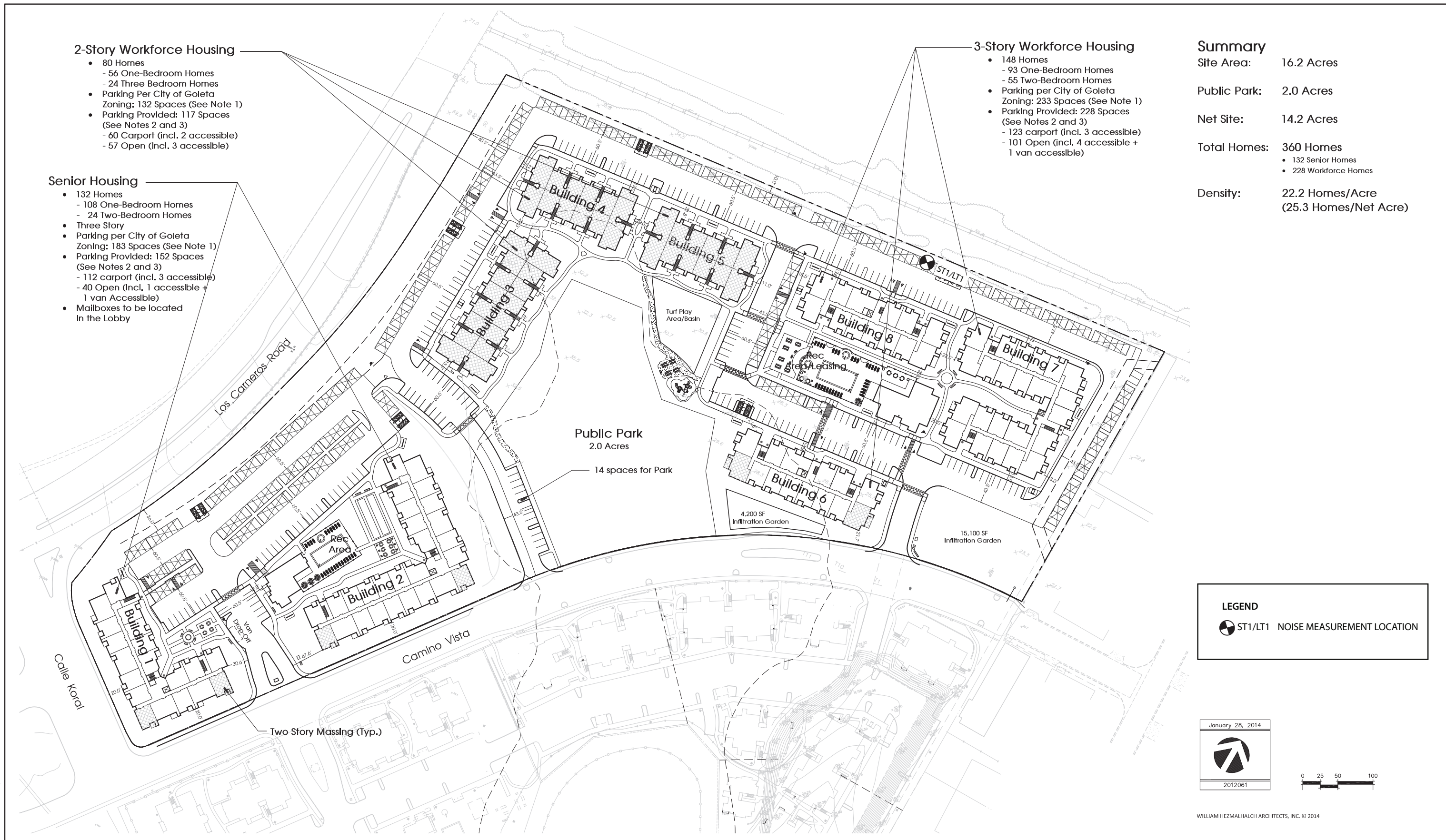
- 148 Homes
  - 93 One-Bedroom Homes
  - 55 Two-Bedroom Homes
- Parking per City of Goleta Zoning: 233 Spaces (See Note 1)
- Parking Provided: 228 Spaces (See Notes 2 and 3)
  - 123 carport (incl. 3 accessible)
  - 101 Open (incl. 4 accessible + 1 van accessible)

**Summary**

Site Area: 16.2 Acres  
 Public Park: 2.0 Acres  
 Net Site: 14.2 Acres  
 Total Homes: 360 Homes
 

- 132 Senior Homes
- 228 Workforce Homes

 Density: 22.2 Homes/Acre (25.3 Homes/Net Acre)



**LEGEND**

ST1/LT1 NOISE MEASUREMENT LOCATION

January 28, 2014

2012061



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**2-Story Workforce Housing**

- 80 Homes
  - 56 One-Bedroom Homes
  - 24 Three Bedroom Homes
- Parking Per City of Goleta Zoning: 132 Spaces (See Note 1)
- Parking Provided: 117 Spaces (See Notes 2 and 3)
  - 60 Carport (incl. 2 accessible)
  - 57 Open (incl. 3 accessible)

**Senior Housing**

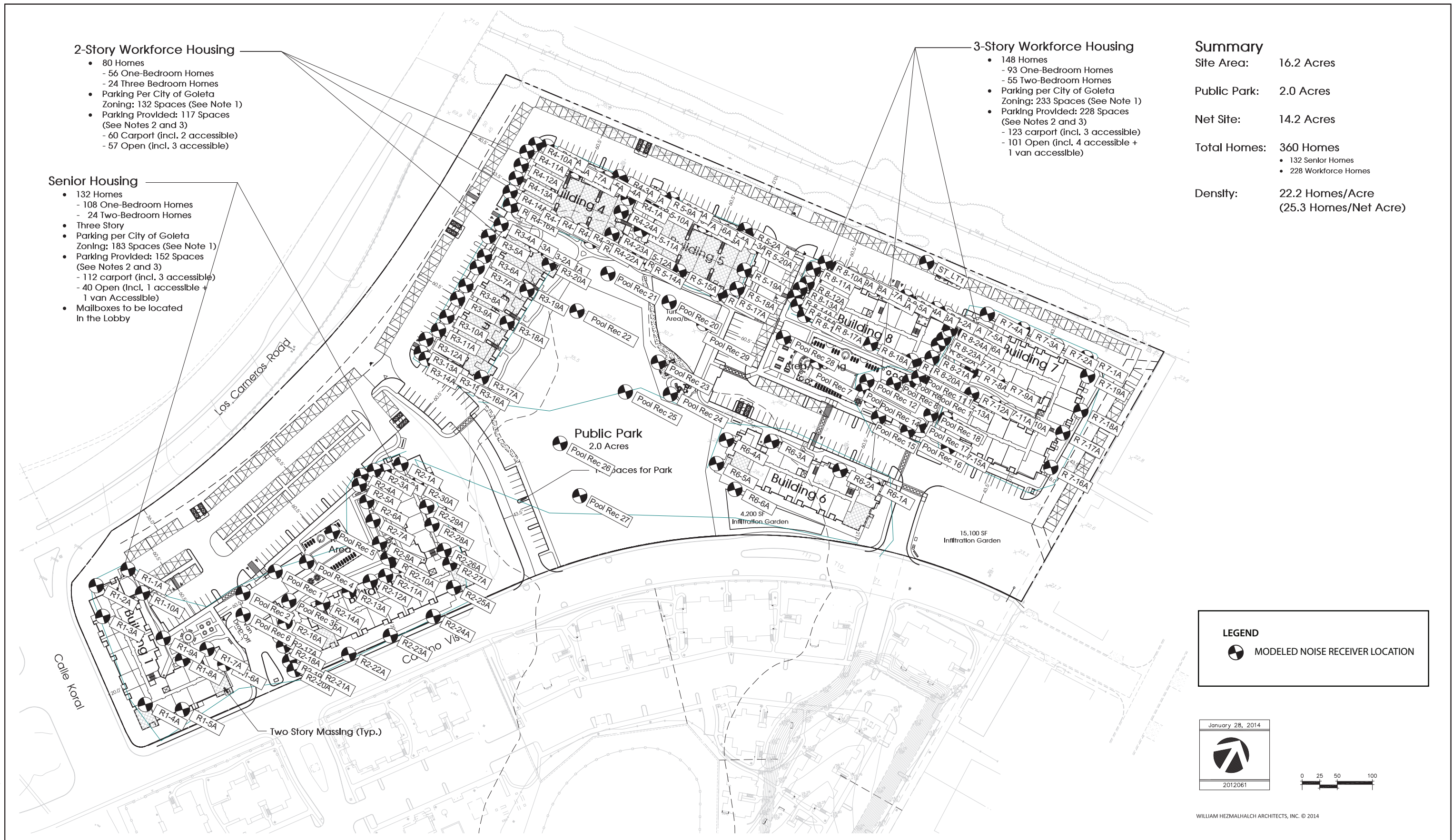
- 132 Homes
  - 108 One-Bedroom Homes
  - 24 Two-Bedroom Homes
- Three Story
- Parking per City of Goleta Zoning: 183 Spaces (See Note 1)
- Parking Provided: 152 Spaces (See Notes 2 and 3)
  - 112 carport (incl. 3 accessible)
  - 40 Open (Incl. 1 accessible + 1 van Accessible)
- Mailboxes to be located in the Lobby

**3-Story Workforce Housing**

- 148 Homes
  - 93 One-Bedroom Homes
  - 55 Two-Bedroom Homes
- Parking per City of Goleta Zoning: 233 Spaces (See Note 1)
- Parking Provided: 228 Spaces (See Notes 2 and 3)
  - 123 carport (incl. 3 accessible)
  - 101 Open (incl. 4 accessible + 1 van accessible)

**Summary**

Site Area:	16.2 Acres
Public Park:	2.0 Acres
Net Site:	14.2 Acres
Total Homes:	360 Homes <ul style="list-style-type: none"> <li>• 132 Senior Homes</li> <li>• 228 Workforce Homes</li> </ul>
Density:	22.2 Homes/Acre (25.3 Homes/Net Acre)



**LEGEND**

● MODELED NOISE RECEIVER LOCATION

January 28, 2014

2012061

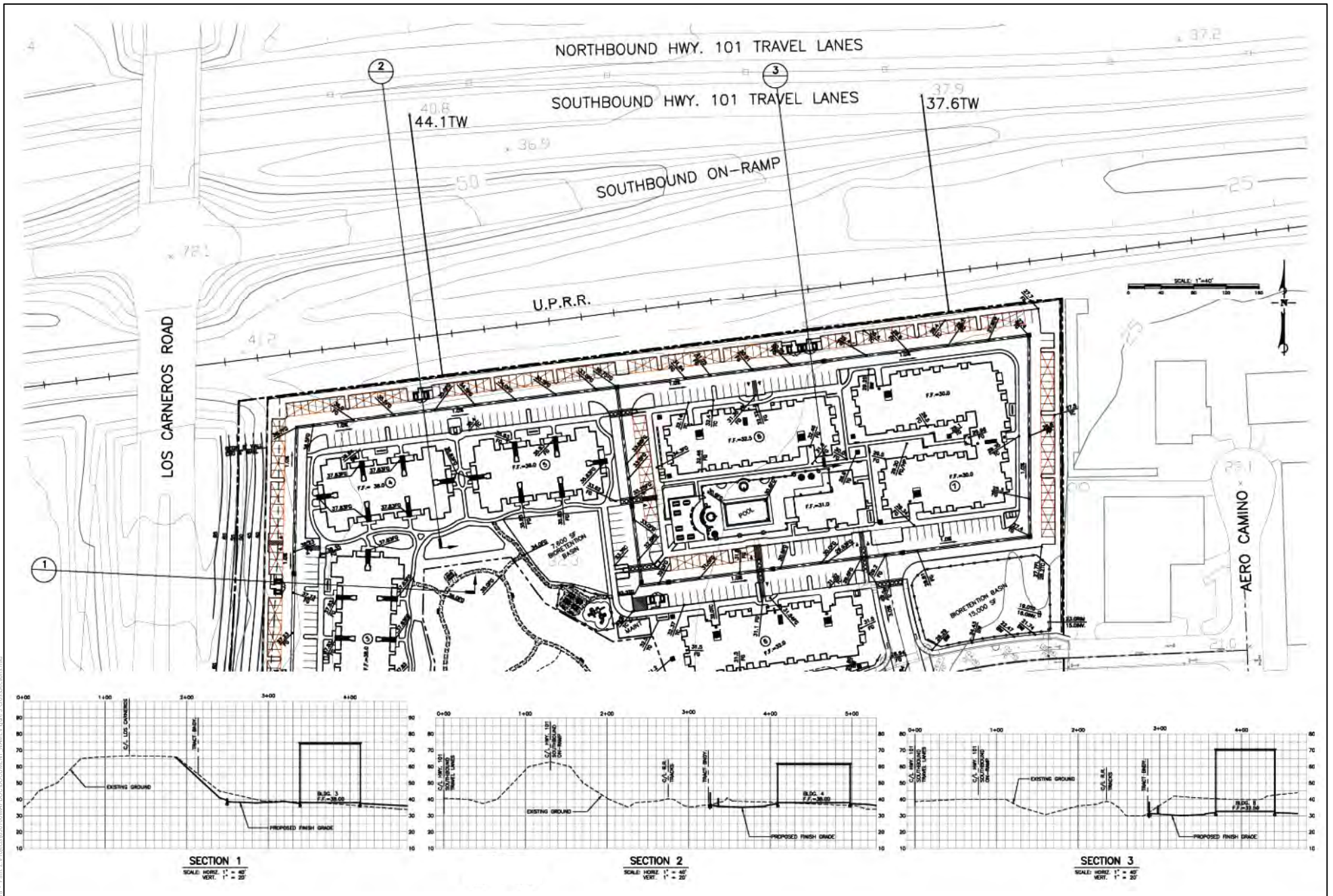
0 25 50 100

WILLIAM HEZMALHALCH ARCHITECTS, INC. © 2014

**FIGURE 4**  
**Modeled Noise Receiver Locations**

Z:\Projects\16901\MAPDOC\MAPS\NOISE\_Figs





SOURCE: MAC Design Associates 2015

**DUDEK**

Heritage Ridge

Figure 5  
Cross Sections

**ATTACHMENT I**  
**ACOUSTICAL TERMS AND DEFINITIONS**

<b>Term</b>	<b>Definition</b>
Ambient Noise Level	The composite of noise from all sources near and far. The normal or existing level of environmental noise at a given location.
A-Weighted Sound Level	<u>dBA</u> is the sound pressure level in decibels as measured on a sound level meter using the A-weighted filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the frequency response of the human ear and correlates well with subjective reactions to noise.
Community Noise Equivalent Level	<u>CNEL</u> is the A-weighted equivalent continuous sound exposure (CNEL) level for a 24-hour period with a ten dB adjustment added to sound levels occurring during nighttime hours (10 pm to 7 am) and a five dB adjustment added to the sound levels occurring during the evening hours (7 pm to 10 pm).
Decibel	<u>dB</u> is the unit for measuring sound pressure level, equal to 10 times the logarithm to the base 10 of the ratio of the measured sound pressure squared to a reference pressure, which is 20 micro-Pascal.

*Mr. Craig Minus*

*Subject: North Willow Springs Project, City of Goleta – Environmental Noise Study Report*

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Equivalent Sound Level

$\underline{L}_{eq}$  is the sound level corresponding to a steady state sound level and containing the same total energy as a time varying signal over a given sample period.  $\underline{L}_{eq}$  is designed to average all of the loud and quiet sound levels occurring over a specific time period.

*Mr. Craig Minus*

*Subject: North Willow Springs Project, City of Goleta – Environmental Noise Study Report*

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**ATTACHMENT 2**  
**NOISE MODELING INPUT / OUTPUT**

**INPUT: ROADWAYS**

Dudek					18 April 2014		<Project Name?>	
M Greene					TNM 2.5			
<b>INPUT: ROADWAYS</b>							Average pavement type shall be used unless	
<b>PROJECT/CONTRACT:</b>							a State highway agency substantiates the use	
<b>RUN:</b>							of a different type with the approval of FHWA	
<b>Roadway Name</b>	<b>Width</b>	<b>Points Name</b>	<b>No.</b>	<b>Coordinates (pavement)</b>		<b>Z</b>	<b>Flow Control</b>	<b>Segment</b>
	<b>m</b>		<b>X</b>	<b>Y</b>		<b>km/h</b>	<b>Control Device</b>	<b>Percent Pvmnt On</b>
			<b>m</b>	<b>m</b>			<b>Speed Constraint</b>	<b>Vehicles Type</b>
								<b>Affected %</b>
Los Carneros Road	20.0	point7	7	11,237,697.0	3,813,909.0	7.60		Average
		point8	8	11,237,759.0	3,813,961.8	10.70		Average
		point9	9	11,237,783.0	3,813,989.8	11.00		Average
		point10	10	11,237,808.0	3,814,029.2	12.50		Average
		point11	11	11,237,830.0	3,814,079.5	14.00		Average
		point12	12	11,237,846.0	3,814,131.0	16.00		Average
		point13	13	11,237,848.0	3,814,231.0	18.50		Average
		point14	14	11,237,852.0	3,814,289.5	21.30		Average
		point15	15	11,237,854.0	3,814,330.0	21.50		Average
US 101 SB Onramp	12.0	point20	20	11,237,863.0	3,814,329.0	21.50		Average
		point21	21	11,237,917.0	3,814,334.8	19.00		Average
		point22	22	11,237,998.0	3,814,343.0	15.80		Average
		point23	23	11,238,188.0	3,814,363.8	12.20		Average
		point24	24	11,238,395.0	3,814,383.0	10.40		Average
US 101 SB Offramp	12.0	point26	26	11,237,577.0	3,814,298.0	12.20		Average
		point27	27	11,237,683.0	3,814,309.2	14.30		Average
		point28	28	11,237,761.0	3,814,317.5	18.00		Average
		point29	29	11,237,846.0	3,814,327.8	21.50		Average
US 101 SB	16.0	point30	30	11,237,580.0	3,814,320.0	12.80		Average
		point31	31	11,237,676.0	3,814,338.5	12.50		Average
		point32	32	11,237,752.0	3,814,353.2	12.20		Average
		point33	33	11,237,789.0	3,814,359.5	12.20		Average
		point34	34	11,237,847.0	3,814,365.8	12.50		Average
US 101 SB-2	16.0	point36	36	11,237,866.0	3,814,369.0	12.50		Average
		point37	37	11,237,907.0	3,814,372.2	11.30		Average

INPUT: ROADWAYS

									<Project Name?>		
			point38	38	11,237,997.0	3,814,376.5	11.00			Average	
			point39	39	11,238,184.0	3,814,379.8	11.00			Average	
			point40	40	11,238,395.0	3,814,392.5	10.40				
US 101 NB	16.0		point44	44	11,238,394.0	3,814,413.5	9.10			Average	
			point45	45	11,238,182.0	3,814,403.5	9.80			Average	
			point46	46	11,237,996.0	3,814,396.8	11.30			Average	
			point47	47	11,237,902.0	3,814,389.0	10.70			Average	
			point48	48	11,237,866.0	3,814,386.8	12.50				
US 101 NB-2	16.0		point49	49	11,237,848.0	3,814,384.0	12.50			Average	
			point50	50	11,237,787.0	3,814,375.8	12.20			Average	
			point51	51	11,237,749.0	3,814,370.0	12.20			Average	
			point52	52	11,237,674.0	3,814,356.5	13.10			Average	
			point53	53	11,237,579.0	3,814,337.2	12.50				
Los Cameros Road-2	20.0		point55	55	11,237,854.0	3,814,330.0	21.50			Average	
			point16	16	11,237,857.0	3,814,385.2	18.30			Average	
			point17	17	11,237,861.0	3,814,453.2	16.50				



INPUT: TRAFFIC FOR LAeq1h Volumes

<Project Name?>

Dudek	18 April 2014																										
M Greene	TNMM 2.5																										
INPUT: TRAFFIC FOR LAeq1h Volumes																											
PROJECT/CONTRACT:																											
RUN:		<Project Name?>																									
ROADWAY		North Willow Springs Proj Goleta Cal Run																									

Roadway Name	Points Name	No.	Segment Autos V	MTrucks		HTrucks		Buses		Motorcycles		
				V	S	V	S	V	S	V	S	
			veh/hr	km/h	veh/hr	km/h	veh/hr	km/h	veh/hr	km/h	veh/hr	km/h
Los Carneros Road	point7	7	0	0	0	0	0	0	0	0	0	0
	point8	8	0	0	0	0	0	0	0	0	0	0
	point9	9	0	0	0	0	0	0	0	0	0	0
	point10	10	0	0	0	0	0	0	0	0	0	0
	point11	11	0	0	0	0	0	0	0	0	0	0
	point12	12	0	0	0	0	0	0	0	0	0	0
	point13	13	0	0	0	0	0	0	0	0	0	0
	point14	14	0	0	0	0	0	0	0	0	0	0
	point15	15										
US 101 SB Onramp	point20	20	0	0	0	0	0	0	0	0	0	0
	point21	21	0	0	0	0	0	0	0	0	0	0
	point22	22	0	0	0	0	0	0	0	0	0	0
	point23	23	0	0	0	0	0	0	0	0	0	0
	point24	24										
US 101 SB Offramp	point26	26	0	0	0	0	0	0	0	0	0	0
	point27	27	0	0	0	0	0	0	0	0	0	0
	point28	28	0	0	0	0	0	0	0	0	0	0
	point29	29										
US 101 SB	point30	30	2300	105	25	105	0	0	30	105	0	0
	point31	31	2300	105	25	105	0	0	30	105	0	0
	point32	32	2300	105	25	105	0	0	30	105	0	0
	point33	33	2300	105	25	105	0	0	30	105	0	0
	point34	34										

**INPUT: TRAFFIC FOR LAeq1h Volumes**

															<Project Name?>		
US 101 SB-2	point36	36	2300	105	25	105	0	0	30	105	0	0	0	0	0	0	0
	point37	37	2300	105	25	105	0	0	30	105	0	0	0	0	0	0	0
	point38	38	2300	105	25	105	0	0	30	105	0	0	0	0	0	0	0
	point39	39	2300	105	25	105	0	0	30	105	0	0	0	0	0	0	0
	point40	40															
US 101 NB	point44	44	2300	105	25	105	0	0	30	105	0	0	0	0	0	0	0
	point45	45	2300	105	25	105	0	0	30	105	0	0	0	0	0	0	0
	point46	46	2300	105	25	105	0	0	30	105	0	0	0	0	0	0	0
	point47	47	2300	105	25	105	0	0	30	105	0	0	0	0	0	0	0
	point48	48															
US 101 NB-2	point49	49	2300	105	25	105	0	0	30	105	0	0	0	0	0	0	0
	point50	50	2300	105	25	105	0	0	30	105	0	0	0	0	0	0	0
	point51	51	2300	105	25	105	0	0	30	105	0	0	0	0	0	0	0
	point52	52	2300	105	25	105	0	0	30	105	0	0	0	0	0	0	0
	point53	53															
Los Cameros Road-2	point55	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	point16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	point17	17															

<Project Name?>

<b>INPUT: TERRAIN LINES</b>										
Dudek									18 April 2014	
M Greene									TNM 2.5	
<b>INPUT: TERRAIN LINES</b>										
<b>PROJECT/CONTRACT:</b>				<b>&lt;Project Name?&gt;</b>						
<b>RUN:</b>				<b>North Willow Springs Proj Goleta Cal Run</b>						
<b>Terrain Line</b>				<b>Points</b>						
<b>Name</b>				<b>No.</b>			<b>Coordinates (ground)</b>			
				<b>X</b>	<b>Y</b>	<b>Z</b>				
				m	m	m				
UPRR - 2				2	11,237,861.0	3,814,287.5				12.50
				3	11,238,395.0	3,814,333.0				8.50
UPRR				4	11,237,570.0	3,814,262.8				12.50
				5	11,237,839.0	3,814,285.0				12.50
Terrain Line5				6	11,237,881.0	3,814,269.2				11.90
				8	11,237,880.0	3,814,249.2				13.10
				9	11,237,880.0	3,814,213.2				13.10
				10	11,237,880.0	3,814,200.2				13.40
				11	11,237,878.0	3,814,185.0				13.70
				12	11,237,876.0	3,814,157.5				12.80
				13	11,237,869.0	3,814,116.0				13.40
				14	11,237,863.0	3,814,091.8				14.90
				15	11,237,860.0	3,814,081.0				14.00
				16	11,237,855.0	3,814,065.5				13.70
				17	11,237,846.0	3,814,042.5				12.30
				18	11,237,832.0	3,814,014.5				11.90
				7	11,237,818.0	3,813,990.8				10.80

INPUT: BARRIERS

Dudek  
M Greene  
18 April 2014  
TNM 2.5

INPUT: BARRIERS

PROJECT/CONTRACT:  
RUN: North Willow Springs Proj Goleta Cal Run

<Project Name?>

Barrier Name	Type	Height		Max	If Wall \$ per Unit	If Berm \$ per Unit	Top Width	Run:Rise	Add'tl \$ per Unit	Name	Coordinates (bottom)		Z	Height at Point		Segment Incre- #Up #Dn	Important Reflec- tions?	
		Min	m								X	Y		m	m			
Barrier4	W	0.00	30.48	30.48	0.00	0.00			0.00	point1	11,237,881.0	3,814,214.2	13.10	1.80	0.00	0	0	
										point2	2 11,237,881.0	3,814,251.2	13.10	1.80	0.00	0	0	
										point3	3 11,237,882.0	3,814,269.8	11.90	1.80	0.00	0	0	
										point4	4 11,237,896.0	3,814,270.8	11.60	1.80	0.00	0	0	
										point5	5 11,237,911.0	3,814,272.5	11.00	1.80	0.00	0	0	
										point6	6 11,237,946.0	3,814,275.5	11.00	1.80	0.00	0	0	
										point7	7 11,237,963.0	3,814,277.2	10.70	1.80	0.00	0	0	
										point8	8 11,238,006.0	3,814,281.2	10.50	1.80	0.00	0	0	
										point9	9 11,238,074.0	3,814,287.5	10.10	1.80	0.00	0	0	
										point10	10 11,238,128.0	3,814,292.5	9.15	1.80	0.00	0	0	
										point11	11 11,238,170.0	3,814,296.5	8.54	1.80	0.00	0	0	
										point12	12 11,238,187.0	3,814,297.8	9.15	1.80	0.00	0	0	
Barrier5	W	0.00	30.48	30.48	0.00	0.00			0.00	point13	13 11,238,189.0	3,814,297.5	9.15	3.65	0.00	0	0	
										point14	14 11,238,194.0	3,814,297.0	9.21	3.65	0.00	0	0	
										point15	15 11,238,193.0	3,814,235.8	8.41	3.65	0.00	0	0	
										point16	16 11,238,221.0	3,814,235.0	8.50	3.65	0.00	0	0	
										point17	17 11,238,221.0	3,814,227.0	8.34	3.65	0.00	0	0	
										point18	18 11,238,188.0	3,814,229.8	8.27	3.65	0.00	0	0	
										point19	19 11,238,189.0	3,814,297.5	9.15	3.65	0.00	0	0	
Barrier6	W	0.00	30.48	30.48	0.00	0.00			0.00	point20	20 11,238,198.0	3,814,176.8	7.46	3.65	0.00	0	0	
										point21	21 11,238,200.0	3,814,224.0	8.31	3.65	0.00	0	0	
										point22	22 11,238,237.0	3,814,223.2	8.24	3.65	0.00	0	0	
										point23	23 11,238,237.0	3,814,196.0	7.69	3.65	0.00	0	0	
										point24	24 11,238,223.0	3,814,196.2	7.71	3.65	0.00	0	0	
										point25	25 11,238,223.0	3,814,175.8	7.29	3.65	0.00	0	0	
Barrier7	W	0.00	30.48	30.48	0.00	0.00			0.00	point26	26 11,237,904.0	3,814,216.0	11.57	6.70	0.00	0	0	
										point28	28 11,237,900.0	3,814,243.0	11.50	6.70	0.00	0	0	
										point29	29 11,237,905.0	3,814,243.5	11.46	6.70	0.00	0	0	
										point30	30 11,237,905.0	3,814,244.8	11.46	6.70	0.00	0	0	
										point31	31 11,237,909.0	3,814,245.0	11.42	6.70	0.00	0	0	
										point32	32 11,237,910.0	3,814,239.8	11.40	6.70	0.00	0	0	
										point33	33 11,237,913.0	3,814,240.0	11.38	6.70	0.00	0	0	
										point34	34 11,237,913.0	3,814,242.2	11.39	6.70	0.00	0	0	
										point35	35 11,237,924.0	3,814,243.0	11.27	6.70	0.00	0	0	
										point36	36 11,237,924.0	3,814,241.0	11.26	6.70	0.00	0	0	







INPUT: BARRIERS

<Project Name?>

point183	183	11,238,164.0	3,814,260.8	8.72	9.75	0.00	0	0
point184	184	11,238,164.0	3,814,258.2	8.75	9.75	0.00	0	0
point185	185	11,238,167.0	3,814,258.2	8.75	9.75	0.00	0	0
point186	186	11,238,167.0	3,814,247.5	8.82	9.75	0.00	0	0
point187	187	11,238,167.0	3,814,245.8	8.81	9.75	0.00	0	0
point188	188	11,238,164.0	3,814,245.8	8.81	9.75	0.00	0	0
point189	189	11,238,164.0	3,814,242.0	8.78	9.75	0.00	0	0
point190	190	11,238,165.0	3,814,242.0	8.78	9.75	0.00	0	0
point191	191	11,238,165.0	3,814,238.5	8.76	9.75	0.00	0	0
point192	192	11,238,166.0	3,814,238.8	8.76	9.75	0.00	0	0
point193	193	11,238,166.0	3,814,237.8	8.75	9.75	0.00	0	0
point194	194	11,238,164.0	3,814,237.2	8.75	9.75	0.00	0	0
point195	195	11,238,164.0	3,814,234.2	8.72	9.75	0.00	0	0
point196	196	11,238,166.0	3,814,234.5	8.72	9.75	0.00	0	0
point197	197	11,238,167.0	3,814,233.0	8.71	9.75	0.00	0	0
point198	198	11,238,163.0	3,814,232.8	8.71	9.75	0.00	0	0
point199	199	11,238,163.0	3,814,229.8	8.69	9.75	0.00	0	0
point200	200	11,238,165.0	3,814,229.8	8.69	9.75	0.00	0	0
point201	201	11,238,165.0	3,814,227.2	8.67	9.75	0.00	0	0
point202	202	11,238,167.0	3,814,227.5	8.67	9.75	0.00	0	0
point203	203	11,238,167.0	3,814,220.8	8.66	9.75	0.00	0	0
point214	214	11,238,164.0	3,814,220.5	8.62	9.75	0.00	0	0
point215	215	11,238,164.0	3,814,217.2	8.59	9.75	0.00	0	0
point216	216	11,238,156.0	3,814,216.5	8.60	9.75	0.00	0	0
point217	217	11,238,156.0	3,814,215.5	8.59	9.75	0.00	0	0
point218	218	11,238,152.0	3,814,215.0	8.62	9.75	0.00	0	0
point219	219	11,238,152.0	3,814,216.2	8.62	9.75	0.00	0	0
point220	220	11,238,145.0	3,814,215.8	8.65	9.75	0.00	0	0
point221	221	11,238,145.0	3,814,214.5	8.65	9.75	0.00	0	0
point222	222	11,238,136.0	3,814,213.8	8.71	9.75	0.00	0	0
point223	223	11,238,136.0	3,814,214.5	8.71	9.75	0.00	0	0
point224	224	11,238,133.0	3,814,214.5	8.73	9.75	0.00	0	0
point225	225	11,238,132.0	3,814,218.5	8.73	9.75	0.00	0	0
point226	226	11,238,127.0	3,814,218.2	8.77	9.75	0.00	0	0
point227	227	11,238,127.0	3,814,213.0	8.78	9.75	0.00	0	0
point228	228	11,238,121.0	3,814,212.8	8.82	9.75	0.00	0	0
point229	229	11,238,121.0	3,814,215.5	8.81	9.75	0.00	0	0
point230	230	11,238,117.0	3,814,215.0	8.84	9.75	0.00	0	0
point231	231	11,238,116.0	3,814,220.8	8.83	9.75	0.00	0	0
point232	232	11,238,117.0	3,814,220.8	8.82	9.75	0.00	0	0
point233	233	11,238,117.0	3,814,224.0	8.82	9.75	0.00	0	0
point234	234	11,238,119.0	3,814,224.0	8.81	9.75	0.00	0	0
point235	235	11,238,117.0	3,814,226.2	8.81	9.75	0.00	0	0
point236	236	11,238,116.0	3,814,226.2	8.82	9.75	0.00	0	0
point237	237	11,238,116.0	3,814,233.0	8.82	9.75	0.00	0	0
point238	238	11,238,119.0	3,814,233.2	8.80	9.75	0.00	0	0
point239	239	11,238,119.0	3,814,236.0	8.81	9.75	0.00	0	0
point240	240	11,238,127.0	3,814,237.0	8.80	9.75	0.00	0	0
point241	241	11,238,127.0	3,814,235.8	8.79	9.75	0.00	0	0





INPUT: BARRIERS

<Project Name?>

														point286	286	11,238,104.0	3,814,210.0	8.84	4.60	0.00	0	0	
														point287	287	11,238,104.0	3,814,211.8	8.84	4.60	0.00	0	0	
														point288	288	11,238,100.0	3,814,211.0	8.84	4.60	0.00	0	0	
														point289	289	11,238,100.0	3,814,213.2	8.84	4.60	0.00	0	0	
														point290	290	11,238,097.0	3,814,213.0	8.84	4.60	0.00	0	0	
														point291	291	11,238,097.0	3,814,210.0	8.84	4.60	0.00	0	0	
														point292	292	11,238,089.0	3,814,209.0	8.87	4.60	0.00	0	0	
														point293	293	11,238,088.0	3,814,214.8	8.86	4.60	0.00	0	0	
														point294	294	11,238,080.0	3,814,214.2	9.07	4.60	0.00	0	0	
														point295	295	11,238,080.0	3,814,222.0	8.98	4.60	0.00	0	0	
														point296	296	11,238,097.0	3,814,222.8	8.91	4.60	0.00	0	0	
														point297	297	11,238,097.0	3,814,231.5	8.84	4.60				
Barrier12			W	0.00	30.48	0.00		0.00						point297	297	11,237,907.0	3,814,205.8	11.64	6.70	0.00	0	0	
														point299	299	11,237,914.0	3,814,205.2	11.59	6.70	0.00	0	0	
														point300	300	11,237,914.0	3,814,204.5	11.58	6.70	0.00	0	0	
														point301	301	11,237,924.0	3,814,204.0	11.53	6.70	0.00	0	0	
														point303	303	11,237,932.0	3,814,203.8	11.50	6.70	0.00	0	0	
														point304	304	11,237,932.0	3,814,199.0	11.50	6.70	0.00	0	0	
														point305	305	11,237,933.0	3,814,199.0	11.50	6.70	0.00	0	0	
														point306	306	11,237,933.0	3,814,195.0	11.50	6.70	0.00	0	0	
														point307	307	11,237,928.0	3,814,195.2	11.50	6.70	0.00	0	0	
														point308	308	11,237,928.0	3,814,193.2	11.50	6.70	0.00	0	0	
														point309	309	11,237,930.0	3,814,193.2	11.50	6.70	0.00	0	0	
														point310	310	11,237,928.0	3,814,180.8	11.50	6.70	0.00	0	0	
														point311	311	11,237,927.0	3,814,181.0	11.50	6.70	0.00	0	0	
														point312	312	11,237,927.0	3,814,176.8	11.50	6.70	0.00	0	0	
														point313	313	11,237,928.0	3,814,176.2	11.50	6.70	0.00	0	0	
														point314	314	11,237,928.0	3,814,163.8	11.50	6.70	0.00	0	0	
														point315	315	11,237,926.0	3,814,163.8	11.50	6.70	0.00	0	0	
														point316	316	11,237,926.0	3,814,160.2	11.50	6.70	0.00	0	0	
														point317	317	11,237,928.0	3,814,160.0	11.50	6.70	0.00	0	0	
														point318	318	11,237,927.0	3,814,148.0	11.50	6.70	0.00	0	0	
														point319	319	11,237,925.0	3,814,148.2	11.50	6.70	0.00	0	0	
														point320	320	11,237,925.0	3,814,146.0	11.50	6.70	0.00	0	0	
														point321	321	11,237,930.0	3,814,146.0	11.50	6.70	0.00	0	0	
														point322	322	11,237,930.0	3,814,141.5	11.50	6.70	0.00	0	0	
														point323	323	11,237,928.0	3,814,141.5	11.50	6.70	0.00	0	0	
														point324	324	11,237,928.0	3,814,137.2	11.50	6.70	0.00	0	0	
														point325	325	11,237,922.0	3,814,137.8	11.51	6.70	0.00	0	0	
														point326	326	11,237,922.0	3,814,137.0	11.52	6.70	0.00	0	0	
														point327	327	11,237,920.0	3,814,137.0	11.52	6.70	0.00	0	0	
														point328	328	11,237,920.0	3,814,138.0	11.52	6.70	0.00	0	0	
														point329	329	11,237,911.0	3,814,138.5	11.55	6.70	0.00	0	0	
														point330	330	11,237,910.0	3,814,137.8	11.55	6.70	0.00	0	0	
														point331	331	11,237,908.0	3,814,138.0	11.56	6.70	0.00	0	0	
														point332	332	11,237,908.0	3,814,139.0	11.55	6.70	0.00	0	0	
														point333	333	11,237,902.0	3,814,139.0	11.58	6.70	0.00	0	0	
														point334	334	11,237,902.0	3,814,143.2	11.55	6.70	0.00	0	0	
														point335	335	11,237,900.0	3,814,143.2	11.56	6.70	0.00	0	0	







INPUT: BARRIERS

<Project Name?>

											point490	490	11,237,899.0	3,814,011.8	7.13	4.60	0.00	0	0
											point491	491	11,237,896.0	3,814,005.5	7.11	4.60	0.00	0	0
											point492	492	11,237,898.0	3,814,004.2	7.08	4.60	0.00	0	0
											point493	493	11,237,896.0	3,813,999.5	7.15	4.60	0.00	0	0
											point494	494	11,237,893.0	3,814,000.8	7.17	4.60	0.00	0	0
											point495	495	11,237,893.0	3,814,000.0	7.18	4.60	0.00	0	0
											point496	496	11,237,891.0	3,814,001.0	7.19	4.60	0.00	0	0
											point497	497	11,237,889.0	3,813,999.2	7.23	4.60	0.00	0	0
											point498	498	11,237,888.0	3,814,001.0	7.25	4.60	0.00	0	0
											point499	499	11,237,888.0	3,814,002.8	7.23	4.60	0.00	0	0
											point501	501	11,237,887.0	3,814,003.8	7.23	4.60	0.00	0	0
											point502	502	11,237,885.0	3,814,006.0	7.27	4.60	0.00	0	0
											point481	481	11,237,885.0	3,814,007.0	7.25	4.60			
Barrier16		W	0.00	30.48	0.00					0.00	point503	503	11,237,835.0	3,813,995.5	7.48	9.75	0.00	0	0
											point509	509	11,237,825.0	3,813,981.5	7.45	9.75	0.00	0	0
											point505	505	11,237,875.0	3,813,944.8	7.41	9.75	0.00	0	0
											point506	506	11,237,898.0	3,813,973.0	7.33	9.75	0.00	0	0
											point507	507	11,237,883.0	3,813,983.5	7.31	9.75	0.00	0	0
											point508	508	11,237,872.0	3,813,968.5	7.42	9.75			

**INPUT: RECEIVERS**

Dudek											18 April 2014				
M Greene											TNM 2.5				
INPUT: RECEIVERS															
PROJECT/CONTRACT:	<Project Name?>														
RUN:	North Willow Springs Proj Goleta Cal Run														

Receiver Name	No.	#DUs	Coordinates (ground)			Z	Height above Ground	Input Sound Levels and Criteria			Active in Calc.
			X	Y				Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	
			m	m	m	m	m	dBA	dBA	dB	dB
Receiver 1	1	1	11,238,159.0	3,814,274.5	10.07	1.50	0.00	66	10.0	8.0	
Receiver2	2	1	11,238,145.0	3,814,273.0	10.17	1.50	0.00	66	10.0	8.0	
Receiver3	3	1	11,238,128.0	3,814,272.5	10.30	1.50	0.00	66	10.0	8.0	
Receiver4	4	1	11,238,113.0	3,814,270.8	10.41	1.50	0.00	66	10.0	8.0	
Receiver5	5	1	11,238,106.0	3,814,263.8	10.35	1.50	0.00	66	10.0	8.0	
Receiver6	6	1	11,238,108.0	3,814,258.8	10.36	1.50	0.00	66	10.0	8.0	
Receiver7	7	1	11,238,109.0	3,814,250.5	10.35	1.50	0.00	66	10.0	8.0	
Receiver8	8	1	11,238,117.0	3,814,245.8	10.32	1.50	0.00	66	10.0	8.0	
Receiver9	9	1	11,238,130.0	3,814,247.5	10.29	1.50	0.00	66	10.0	8.0	
Receiver10	10	1	11,238,141.0	3,814,238.5	10.29	1.50	0.00	66	10.0	8.0	
Receiver11	11	1	11,238,133.0	3,814,238.0	10.30	1.50	0.00	66	10.0	8.0	
Receiver12	12	1	11,238,122.0	3,814,237.0	10.31	1.50	0.00	66	10.0	8.0	
Receiver13	13	1	11,238,115.0	3,814,231.2	10.33	1.50	0.00	66	10.0	8.0	
Receiver14	14	1	11,238,116.0	3,814,222.0	10.32	1.50	0.00	66	10.0	8.0	
Receiver15	15	1	11,238,124.0	3,814,211.8	10.30	1.50	0.00	66	10.0	8.0	
Receiver16	16	1	11,238,169.0	3,814,225.2	10.17	1.50	0.00	66	10.0	8.0	
Receiver17	17	1	11,238,166.0	3,814,240.8	10.27	1.50	0.00	66	10.0	8.0	
Receiver18	18	1	11,238,169.0	3,814,252.8	10.31	1.50	0.00	66	10.0	8.0	
Receiver19	19	1	11,238,164.0	3,814,267.8	10.15	1.50	0.00	66	10.0	8.0	
Receiver20	20	1	11,238,095.0	3,814,263.0	10.46	1.50	0.00	66	10.0	8.0	
Receiver21	21	1	11,238,091.0	3,814,262.8	10.62	1.50	0.00	66	10.0	8.0	
Receiver22	22	1	11,238,083.0	3,814,261.0	10.88	1.50	0.00	66	10.0	8.0	





**INPUT: RECEIVERS**

																				<Project Name?>			
Receiver59	59	1	11,238,004.0	3,814,222.5	12.77	1.50	0.00	66	10.0	8.0													
Receiver60	60	1	11,238,009.0	3,814,224.5	12.77	1.50	0.00	66	10.0	8.0													
Receiver61	61	1	11,238,010.0	3,814,229.5	12.68	1.50	0.00	66	10.0	8.0													
Receiver62	62	1	11,238,009.0	3,814,238.0	12.49	1.50	0.00	66	10.0	8.0													
Receiver63	63	1	11,238,008.0	3,814,249.2	12.26	1.50	0.00	66	10.0	8.0													
Receiver64	64	1	11,237,950.0	3,814,242.0	12.50	1.50	0.00	66	10.0	8.0													
Receiver65	65	1	11,237,947.0	3,814,247.8	12.52	1.50	0.00	66	10.0	8.0													
Receiver66	66	1	11,237,942.0	3,814,248.5	12.58	1.50	0.00	66	10.0	8.0													
Receiver67	67	1	11,237,937.0	3,814,245.2	12.62	1.50	0.00	66	10.0	8.0													
Receiver68	68	1	11,237,928.0	3,814,244.2	12.71	1.50	0.00	66	10.0	8.0													
Receiver69	69	1	11,237,925.0	3,814,242.0	12.75	1.50	0.00	66	10.0	8.0													
Receiver70	70	1	11,237,921.0	3,814,244.0	12.79	1.50	0.00	66	10.0	8.0													
Receiver71	71	1	11,237,913.0	3,814,243.0	12.87	1.50	0.00	66	10.0	8.0													
Receiver72	72	1	11,237,908.0	3,814,245.2	12.93	1.50	0.00	66	10.0	8.0													
Receiver73	73	1	11,237,903.0	3,814,243.8	12.98	1.50	0.00	66	10.0	8.0													
Receiver74	74	1	11,237,900.0	3,814,239.2	13.00	1.50	0.00	66	10.0	8.0													
Receiver75	75	1	11,237,902.0	3,814,232.8	13.00	1.50	0.00	66	10.0	8.0													
Receiver76	76	1	11,237,903.0	3,814,226.8	12.98	1.50	0.00	66	10.0	8.0													
Receiver77	77	1	11,237,903.0	3,814,220.2	13.03	1.50	0.00	66	10.0	8.0													
Receiver78	78	1	11,237,907.0	3,814,215.5	13.05	1.50	0.00	66	10.0	8.0													
Receiver79	79	1	11,237,910.0	3,814,214.8	13.00	1.50	0.00	66	10.0	8.0													
Receiver80	80	1	11,237,915.0	3,814,218.2	12.88	1.50	0.00	66	10.0	8.0													
Receiver81	81	1	11,237,924.0	3,814,219.0	12.75	1.50	0.00	66	10.0	8.0													
Receiver82	82	1	11,237,931.0	3,814,219.8	12.64	1.50	0.00	66	10.0	8.0													
Receiver83	83	1	11,237,938.0	3,814,220.2	12.55	1.50	0.00	66	10.0	8.0													
Receiver84	84	1	11,237,944.0	3,814,216.5	12.50	1.50	0.00	66	10.0	8.0													
Receiver85	85	1	11,237,949.0	3,814,219.2	12.50	1.50	0.00	66	10.0	8.0													
Receiver86	86	1	11,237,950.0	3,814,224.8	12.50	1.50	0.00	66	10.0	8.0													
Receiver87	87	1	11,237,950.0	3,814,235.2	12.50	1.50	0.00	66	10.0	8.0													
Receiver88	88	1	11,237,930.0	3,814,204.0	13.00	1.50	0.00	66	10.0	8.0													
Receiver89	89	1	11,237,924.0	3,814,205.8	13.04	1.50	0.00	66	10.0	8.0													
Receiver90	90	1	11,237,914.0	3,814,206.8	13.10	1.50	0.00	66	10.0	8.0													
Receiver91	91	1	11,237,907.0	3,814,206.0	13.14	1.50	0.00	66	10.0	8.0													
Receiver92	92	1	11,237,903.0	3,814,198.5	13.08	1.50	0.00	66	10.0	8.0													
Receiver93	93	1	11,237,905.0	3,814,190.5	13.00	1.50	0.00	66	10.0	8.0													
Receiver94	94	1	11,237,905.0	3,814,184.2	13.00	1.50	0.00	66	10.0	8.0													

**INPUT: RECEIVERS**

Receiver95	95	1	11,237,905.0	3,814,175.2	13.00	1.50	0.00	66	10.0	8.0
Receiver96	96	1	11,237,905.0	3,814,168.2	13.00	1.50	0.00	66	10.0	8.0
Receiver97	97	1	11,237,904.0	3,814,159.2	13.00	1.50	0.00	66	10.0	8.0
Receiver98	98	1	11,237,904.0	3,814,152.2	13.00	1.50	0.00	66	10.0	8.0
Receiver99	99	1	11,237,899.0	3,814,146.2	13.04	1.50	0.00	66	10.0	8.0
Receiver100	100	1	11,237,900.0	3,814,140.0	13.07	1.50	0.00	66	10.0	8.0
Receiver101	101	1	11,237,905.0	3,814,138.0	13.07	1.50	0.00	66	10.0	8.0
Receiver102	102	1	11,237,916.0	3,814,137.8	13.03	1.50	0.00	66	10.0	8.0
Receiver103	103	1	11,237,926.0	3,814,137.0	13.00	1.50	0.00	66	10.0	8.0
Receiver104	104	1	11,237,931.0	3,814,142.8	13.00	1.50	0.00	66	10.0	8.0
Receiver105	105	1	11,237,930.0	3,814,169.2	13.00	1.50	0.00	66	10.0	8.0
Receiver106	106	1	11,237,930.0	3,814,185.8	13.00	1.50	0.00	66	10.0	8.0
Receiver107	107	1	11,237,933.0	3,814,200.5	13.00	1.50	0.00	66	10.0	8.0
Receiver108	108	1	11,237,917.0	3,814,093.8	9.14	1.50	0.00	66	10.0	8.0
Receiver109	109	1	11,237,913.0	3,814,087.0	9.16	1.50	0.00	66	10.0	8.0
Receiver110	110	1	11,237,908.0	3,814,085.0	9.15	1.50	0.00	66	10.0	8.0
Receiver111	111	1	11,237,904.0	3,814,080.2	9.17	1.50	0.00	66	10.0	8.0
Receiver112	112	1	11,237,905.0	3,814,076.5	9.20	1.50	0.00	66	10.0	8.0
Receiver113	113	1	11,237,911.0	3,814,071.5	9.05	1.50	0.00	66	10.0	8.0
Receiver114	114	1	11,237,917.0	3,814,065.5	8.92	1.50	0.00	66	10.0	8.0
Receiver115	115	1	11,237,925.0	3,814,058.0	8.91	1.50	0.00	66	10.0	8.0
Receiver116	116	1	11,237,931.0	3,814,054.2	8.92	1.50	0.00	66	10.0	8.0
Receiver117	117	1	11,237,936.0	3,814,053.0	8.94	1.50	0.00	66	10.0	8.0
Receiver118	118	1	11,237,935.0	3,814,046.8	8.87	1.50	0.00	66	10.0	8.0
Receiver119	119	1	11,237,928.0	3,814,041.8	8.79	1.50	0.00	66	10.0	8.0
Receiver121	121	1	11,237,924.0	3,814,033.5	8.67	1.50	0.00	66	10.0	8.0
Receiver122	122	1	11,237,915.0	3,814,023.2	8.57	1.50	0.00	66	10.0	8.0
Receiver123	123	1	11,237,910.0	3,814,016.2	8.56	1.50	0.00	66	10.0	8.0
Receiver124	124	1	11,237,905.0	3,814,008.5	8.54	1.50	0.00	66	10.0	8.0
Receiver125	125	1	11,237,907.0	3,814,001.0	8.48	1.50	0.00	66	10.0	8.0
Receiver126	126	1	11,237,909.0	3,813,999.0	8.43	1.50	0.00	66	10.0	8.0
Receiver127	127	1	11,237,914.0	3,813,994.0	8.38	1.50	0.00	66	10.0	8.0
Receiver128	128	1	11,237,917.0	3,813,991.8	8.34	1.50	0.00	66	10.0	8.0
Receiver129	129	1	11,237,925.0	3,813,995.5	8.25	1.50	0.00	66	10.0	8.0
Receiver130	130	1	11,237,936.0	3,814,009.0	8.45	1.50	0.00	66	10.0	8.0
Receiver131	131	1	11,237,948.0	3,814,025.0	8.68	1.50	0.00	66	10.0	8.0

<Project Name?>



INPUT: RECEIVERS

															<Project Name?>		
Receiver168	168	1	11,238,006.0	3,814,175.2	11.18	1.50	0.00	66	10.0	8.0							
Receiver169	169	1	11,237,988.0	3,814,166.5	11.21	1.50	0.00	66	10.0	8.0							
Receiver170	170	1	11,237,974.0	3,814,133.8	12.49	1.50	0.00	66	10.0	8.0							
Receiver171	171	1	11,237,992.0	3,814,117.5	12.44	1.50	0.00	66	10.0	8.0							
Receiver172	172	1	11,237,833.0	3,813,996.5	8.83	1.50	0.00	66	10.0	8.0							
Receiver173	173	1	11,237,824.0	3,813,983.8	8.91	1.50	0.00	66	10.0	8.0							
Receiver174	174	1	11,237,833.0	3,813,973.2	9.05	1.50	0.00	66	10.0	8.0							
Receiver175	175	1	11,237,867.0	3,813,948.0	9.00	1.50	0.00	66	10.0	8.0							
Receiver176	176	1	11,237,883.0	3,813,953.8	8.88	1.50	0.00	66	10.0	8.0							
Receiver177	177	1	11,237,889.0	3,813,980.0	8.81	1.50	0.00	66	10.0	8.0							
Receiver178	178	1	11,237,880.0	3,813,982.0	8.82	1.50	0.00	66	10.0	8.0							
Receiver179	179	1	11,237,874.0	3,813,973.0	8.89	1.50	0.00	66	10.0	8.0							
Receiver180	180	1	11,237,861.0	3,813,977.2	8.90	1.50	0.00	66	10.0	8.0							
Receiver181	181	1	11,237,844.0	3,813,990.5	8.88	1.50	0.00	66	10.0	8.0							
Receiver182	182	1	11,238,038.0	3,814,220.0	11.73	1.50	0.00	66	10.0	8.0							
ST_LT1	184	1	11,238,078.0	3,814,278.5	10.87	1.50	0.00	66	10.0	8.0	Y						

RESULTS: SOUND LEVELS

Dudek																																							
M Greene																																							
RESULTS: SOUND LEVELS																																							
PROJECT/CONTRACT:																																							
RUN:																																							
BARRIER DESIGN:																																							
ATMOSPHERICS:																																							

<Project Name?>  
 North Willow Springs Proj Goleta Cal Run  
 INPUT HEIGHTS  
 20 deg C, 50% RH

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Crit'n	Increase over existing Calculated	Crit'n	With Barrier			Type Impact	Calculated minus Goal	
								Calculated	LAeq1h	Noise Reduction			
				dBA	dBA	dBA	Crit'n	Calculated	LAeq1h	Calculated	Goal	minus Goal	
				dBA	dBA	dBA		dB	dB	dB	dB	dB	
Receiver 1	1	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver2	2	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver3	3	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver4	4	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver5	5	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver6	6	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver7	7	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver8	8	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver9	9	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver10	10	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver11	11	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver12	12	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver13	13	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver14	14	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver15	15	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver16	16	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver17	17	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver18	18	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver19	19	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver20	20	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver21	21	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver22	22	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver23	23	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver24	24	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0

**RESULTS: SOUND LEVELS**

Receiver25	25	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver26	26	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver27	27	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver28	28	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver29	29	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver30	30	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver31	31	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver32	32	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver33	33	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver34	34	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver35	35	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver36	36	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver37	37	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver38	38	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver39	39	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver40	40	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver41	41	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver42	42	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver43	43	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver44	44	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver45	45	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver46	46	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver47	47	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver48	48	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver49	49	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver50	50	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver51	51	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver52	52	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver53	53	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver54	54	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver55	55	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver56	56	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver57	57	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver58	58	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver59	59	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver60	60	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver61	61	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver62	62	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver63	63	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver64	64	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver65	65	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0

**RESULTS: SOUND LEVELS**

Receiver66	66	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver67	67	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver68	68	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver69	69	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver70	70	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver71	71	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver72	72	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver73	73	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver74	74	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver75	75	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver76	76	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver77	77	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver78	78	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver79	79	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver80	80	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver81	81	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver82	82	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver83	83	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver84	84	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver85	85	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver86	86	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver87	87	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver88	88	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver89	89	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver90	90	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver91	91	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver92	92	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver93	93	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver94	94	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver95	95	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver96	96	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver97	97	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver98	98	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver99	99	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver100	100	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver101	101	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver102	102	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver103	103	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver104	104	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver105	105	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver106	106	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0

**RESULTS: SOUND LEVELS**

Receiver107	107	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver108	108	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver109	109	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver110	110	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver111	111	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver112	112	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver113	113	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver114	114	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver115	115	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver116	116	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver117	117	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver118	118	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver119	119	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver121	121	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver122	122	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver123	123	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver124	124	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver125	125	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver126	126	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver127	127	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver128	128	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver129	129	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver130	130	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver131	131	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver132	132	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver133	133	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver134	134	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver135	135	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver136	136	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver137	137	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver138	138	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver139	139	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver140	140	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver141	141	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver142	142	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver143	143	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver144	144	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver145	145	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver146	146	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver147	147	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Receiver148	148	1	0.0	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0

<Project Name?>



**RESULTS: SOUND LEVELS**

Receiver	149	1	0.0	0.0	66	<Project Name?>				8	0.0
						10	inactive	0.0	0.0		
Receiver149	149	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver150	150	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver151	151	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver152	152	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver153	153	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver154	154	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver155	155	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver156	156	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver157	157	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver158	158	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver159	159	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver160	160	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver161	161	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver162	162	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver163	163	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver164	164	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver165	165	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver166	166	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver167	167	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver168	168	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver169	169	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver170	170	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver171	171	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver172	172	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver173	173	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver174	174	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver175	175	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver176	176	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver177	177	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver178	178	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver179	179	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver180	180	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver181	181	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
Receiver182	182	1	0.0	0.0	66	10	inactive	0.0	0.0	8	0.0
ST_LT1	184	1	0.0	54.8	66	10	----	54.8	54.8	8	-8.0
Dwelling Units	# DUs	Noise Reduction			Max dB						
		Min dB	Avg dB	dB							
All Selected	182	0.0	0.0	0.0							
All Impacted	0	0.0	0.0	0.0							
All that meet NR Goal	0	0.0	0.0	0.0							

INPUT: ROADWAYS

Dudek				18 April 2014			<Project Name?>	
M Greene				TNM 2.5				
INPUT: ROADWAYS								Average pavement type shall be used unless
PROJECT/CONTRACT:								a State highway agency substantiates the use
RUN:								of a different type with the approval of FHWA

Roadway Name	Width	Points Name	No.	Coordinates (pavement)		Z	Flow Control		Segment	
				X	Y		Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type
	m			m	m	m		km/h	%	
Los Carneros Road	20.0	point7	7	11,237,697.0	3,813,909.0	7.60				Average
		point8	8	11,237,759.0	3,813,961.8	10.70				Average
		point9	9	11,237,783.0	3,813,989.8	11.00				Average
		point10	10	11,237,808.0	3,814,029.2	12.50				Average
		point11	11	11,237,830.0	3,814,079.5	14.00				Average
		point12	12	11,237,846.0	3,814,131.0	16.00				Average
		point13	13	11,237,848.0	3,814,231.0	18.50				Average
		point14	14	11,237,852.0	3,814,289.5	21.30				Average
		point15	15	11,237,854.0	3,814,330.0	21.50				Average
US 101 SB Onramp	12.0	point20	20	11,237,863.0	3,814,329.0	21.50				Average
		point21	21	11,237,917.0	3,814,334.8	19.00				Average
		point22	22	11,237,998.0	3,814,343.0	15.80				Average
		point23	23	11,238,188.0	3,814,363.8	12.20				Average
		point24	24	11,238,395.0	3,814,383.0	10.40				Average
US 101 SB Offramp	12.0	point26	26	11,237,577.0	3,814,298.0	12.20				Average
		point27	27	11,237,683.0	3,814,309.2	14.30				Average
		point28	28	11,237,761.0	3,814,317.5	18.00				Average
		point29	29	11,237,846.0	3,814,327.8	21.50				Average
US 101 SB	16.0	point30	30	11,237,580.0	3,814,320.0	12.80				Average
		point31	31	11,237,676.0	3,814,338.5	12.50				Average
		point32	32	11,237,752.0	3,814,353.2	12.20				Average
		point33	33	11,237,789.0	3,814,359.5	12.20				Average
		point34	34	11,237,847.0	3,814,365.8	12.50				Average
US 101 SB-2	16.0	point36	36	11,237,866.0	3,814,369.0	12.50				Average
		point37	37	11,237,907.0	3,814,372.2	11.30				Average

INPUT: ROADWAYS

													<Project Name?>		
				point38	38	11,237,997.0	3,814,376.5	11.00						Average	
				point39	39	11,238,184.0	3,814,379.8	11.00						Average	
				point40	40	11,238,395.0	3,814,392.5	10.40							
US 101 NB		16.0		point44	44	11,238,394.0	3,814,413.5	9.10						Average	
				point45	45	11,238,182.0	3,814,403.5	9.80						Average	
				point46	46	11,237,996.0	3,814,396.8	11.30						Average	
				point47	47	11,237,902.0	3,814,389.0	10.70						Average	
				point48	48	11,237,866.0	3,814,386.8	12.50							
US 101 NB-2		16.0		point49	49	11,237,848.0	3,814,384.0	12.50						Average	
				point50	50	11,237,787.0	3,814,375.8	12.20						Average	
				point51	51	11,237,749.0	3,814,370.0	12.20						Average	
				point52	52	11,237,674.0	3,814,356.5	13.10						Average	
				point53	53	11,237,579.0	3,814,337.2	12.50							
Los Cameros Road-N of US 101 SB Ramps		20.0		point55	55	11,237,854.0	3,814,330.0	21.50						Average	
				point57	57	11,237,857.0	3,814,385.2	18.30						Average	
				point17	17	11,237,861.0	3,814,453.2	16.50							

INPUT: TRAFFIC FOR LAeq1h Percentages

<Project Name?>

Dudek																					
M Greene																					
INPUT: TRAFFIC FOR LAeq1h Percentages PROJECT/CONTRACT: <Project Name?> RUN: North Willow Springs Project Goleta Ex																					

Roadway Name	Points Name	Segment No.	Total Volume veh/hr	Autos		MTrucks		HTricks		Buses		Motorcycles	
				P %	S km/h	P %	S km/h	P %	S km/h	P %	S km/h	P %	S km/h
Los Carneros Road	point7	7	2380	95	72	2	72	3	72	0	72	0	0
	point8	8	2380	95	72	2	72	3	72	0	72	0	0
	point9	9	2380	95	72	2	72	3	72	0	72	0	0
	point10	10	2380	95	72	2	72	3	72	0	72	0	0
	point11	11	2380	95	72	2	72	3	72	0	72	0	0
	point12	12	2380	95	72	2	72	3	72	0	72	0	0
	point13	13	2380	95	72	2	72	3	72	0	72	0	0
	point14	14	2380	95	72	2	72	3	72	0	72	0	0
	point15	15											
US 101 SB Onramp	point20	20	1004	95	72	2	72	3	72	0	72	0	0
	point21	21	1004	95	72	2	72	3	72	0	72	0	0
	point22	22	1004	95	72	2	72	3	72	0	72	0	0
	point23	23	1004	95	72	2	72	3	72	0	72	0	0
	point24	24											
US 101 SB Offramp	point26	26	144	95	72	2	72	3	72	0	72	0	0
	point27	27	144	95	72	2	72	3	72	0	72	0	0
	point28	28	144	95	72	2	72	3	72	0	72	0	0
	point29	29											
US 101 SB	point30	30	3005	91	105	6	105	3	105	0	105	0	0
	point31	31	3005	91	105	6	105	3	105	0	105	0	0
	point32	32	3005	91	105	6	105	3	105	0	105	0	0
	point33	33	3005	91	105	6	105	3	105	0	105	0	0
	point34	34											

**INPUT: TRAFFIC FOR LAeq1h Percentages**

		<Project Name?>											
US 101 SB-2	point36	36	3005	91	105	6	105	3	105	0	0	0	0
	point37	37	3005	91	105	6	105	3	105	0	0	0	0
	point38	38	3005	91	105	6	105	3	105	0	0	0	0
	point39	39	3005	91	105	6	105	3	105	0	0	0	0
	point40	40											
US 101 NB	point44	44	2838	91	105	6	105	3	105	0	0	0	0
	point45	45	2838	91	105	6	105	3	105	0	0	0	0
	point46	46	2838	91	105	6	105	3	105	0	0	0	0
	point47	47	2838	91	105	6	105	3	105	0	0	0	0
	point48	48											
US 101 NB-2	point49	49	2838	91	105	6	105	3	105	0	0	0	0
	point50	50	2838	91	105	6	105	3	105	0	0	0	0
	point51	51	2838	91	105	6	105	3	105	0	0	0	0
	point52	52	2838	91	105	6	105	3	105	0	0	0	0
	point53	53											
Los Carneros Road-N of US 101 SB Ramp	point55	55	1514	95	72	2	72	3	72	0	0	0	0
	point57	57	1514	95	72	2	72	3	72	0	0	0	0
	point17	17											

<Project Name?>

INPUT: TERRAIN LINES									
Dudek								18 April 2014	
M Greene								TNM 2.5	
INPUT: TERRAIN LINES									
PROJECT/CONTRACT:		<Project Name?>							
RUN:		North Willow Springs Project Goleta Ex							
Terrain Line		Points							
Name	No.	Coordinates (ground)							
		X	Y	Z					
		m	m	m					
UPRR - 2	2	11,237,861.0	3,814,287.5	12.50					
	3	11,238,395.0	3,814,333.0	8.50					
UPRR	4	11,237,570.0	3,814,262.8	12.50					
	5	11,237,839.0	3,814,285.0	12.50					
Terrain Line5	6	11,237,881.0	3,814,269.2	11.90					
	8	11,237,880.0	3,814,249.2	13.10					
	9	11,237,880.0	3,814,213.2	13.10					
	10	11,237,880.0	3,814,200.2	13.40					
	11	11,237,878.0	3,814,185.0	13.70					
	12	11,237,876.0	3,814,157.5	12.80					
	13	11,237,869.0	3,814,116.0	13.40					
	14	11,237,863.0	3,814,091.8	14.90					
	15	11,237,860.0	3,814,081.0	14.00					
	16	11,237,855.0	3,814,065.5	13.70					
	17	11,237,846.0	3,814,042.5	12.30					
	18	11,237,832.0	3,814,014.5	11.90					
	7	11,237,818.0	3,813,990.8	10.80					

INPUT: BARRIERS

<Project Name?>

Dudek  
 M Greene  
 18 April 2014  
 TNM 2.5

INPUT: BARRIERS

<Project Name?>  
 North Willow Springs Project Goleta Ex

RUN:

Barrier Name	Type	Height		Max	If Wall \$ per Unit	If Berm \$ per Unit	Top Width	Run:Rise	Add'l \$ per Unit	Name	Coordinates (bottom)			Height at Point	Segment			Important Reflec-tions?
		Min	m								X	Y	Z		Increment	#Up	#Dn	
Barrier4	W	0.00	30.48		0.00				0.00	point1	11,237,881.0	3,814,214.2	13.10	1.80	0.00	0	0	
										point2	11,237,881.0	3,814,251.2	13.10	1.80	0.00	0	0	
										point3	11,237,882.0	3,814,269.8	11.90	1.80	0.00	0	0	
										point4	11,237,896.0	3,814,270.8	11.60	1.80	0.00	0	0	
										point5	11,237,911.0	3,814,272.5	11.00	1.80	0.00	0	0	
										point6	11,237,946.0	3,814,275.5	11.00	1.80	0.00	0	0	
										point7	11,237,963.0	3,814,277.2	10.70	1.80	0.00	0	0	
										point8	11,238,006.0	3,814,281.2	10.50	1.80	0.00	0	0	
										point9	11,238,074.0	3,814,287.5	10.10	1.80	0.00	0	0	
										point10	11,238,128.0	3,814,292.5	9.15	1.80	0.00	0	0	
										point11	11,238,170.0	3,814,296.5	8.54	1.80	0.00	0	0	
										point12	11,238,187.0	3,814,297.8	9.15	1.80	0.00	0	0	
Barrier5	W	0.00	30.48		0.00				0.00	point13	11,238,189.0	3,814,297.5	9.15	3.65	0.00	0	0	
										point14	11,238,194.0	3,814,297.0	9.21	3.65	0.00	0	0	
										point15	11,238,193.0	3,814,235.8	8.41	3.65	0.00	0	0	
										point16	11,238,221.0	3,814,235.0	8.50	3.65	0.00	0	0	
										point17	11,238,221.0	3,814,227.0	8.34	3.65	0.00	0	0	
										point18	11,238,188.0	3,814,229.8	8.27	3.65	0.00	0	0	
										point19	11,238,189.0	3,814,297.5	9.15	3.65	0.00	0	0	
Barrier6	W	0.00	30.48		0.00				0.00	point20	11,238,198.0	3,814,176.8	7.46	3.65	0.00	0	0	
										point21	11,238,200.0	3,814,224.0	8.31	3.65	0.00	0	0	
										point22	11,238,237.0	3,814,223.2	8.24	3.65	0.00	0	0	
										point23	11,238,237.0	3,814,196.0	7.69	3.65	0.00	0	0	
										point24	11,238,223.0	3,814,196.2	7.71	3.65	0.00	0	0	
										point25	11,238,223.0	3,814,175.8	7.29	3.65	0.00	0	0	
Barrier7	W	0.00	30.48		0.00				0.00	point26	11,237,904.0	3,814,216.0	11.57	6.70	0.00	0	0	
										point27	11,237,900.0	3,814,243.0	11.50	6.70	0.00	0	0	
										point28	11,237,905.0	3,814,243.5	11.46	6.70	0.00	0	0	
										point30	11,237,905.0	3,814,244.8	11.46	6.70	0.00	0	0	
										point31	11,237,909.0	3,814,245.0	11.42	6.70	0.00	0	0	
										point32	11,237,910.0	3,814,239.8	11.40	6.70	0.00	0	0	
										point33	11,237,913.0	3,814,240.0	11.38	6.70	0.00	0	0	
										point34	11,237,913.0	3,814,242.2	11.39	6.70	0.00	0	0	
										point35	11,237,924.0	3,814,243.0	11.27	6.70	0.00	0	0	
										point36	11,237,924.0	3,814,241.0	11.26	6.70	0.00	0	0	









INPUT: BARRIERS	<Project Name?>	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241
		point183	point184	point185	point186	point187	point188	point189	point190	point191	point192	point193	point194	point195	point196	point197	point198	point199	point200	point201	point202	point203	point214	point215	point216	point217	point218	point219	point220	point221	point222	point223	point224	point225	point226	point227	point228	point229	point230	point231	point232	point233	point234	point235	point236	point237	point238	point239	point240	point241
		183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241
		11,238,164.0	11,238,164.0	11,238,167.0	11,238,167.0	11,238,167.0	11,238,164.0	11,238,164.0	11,238,165.0	11,238,165.0	11,238,166.0	11,238,166.0	11,238,164.0	11,238,164.0	11,238,166.0	11,238,166.0	11,238,163.0	11,238,163.0	11,238,165.0	11,238,165.0	11,238,167.0	11,238,167.0	11,238,167.0	11,238,164.0	11,238,164.0	11,238,156.0	11,238,156.0	11,238,152.0	11,238,145.0	11,238,145.0	11,238,136.0	11,238,136.0	11,238,133.0	11,238,132.0	11,238,127.0	11,238,127.0	11,238,121.0	11,238,121.0	11,238,117.0	11,238,117.0	11,238,117.0	11,238,119.0	11,238,116.0	11,238,116.0	11,238,116.0	11,238,119.0	11,238,119.0	11,238,127.0	11,238,127.0	
		3,814,260.8	3,814,258.2	3,814,258.2	3,814,247.5	3,814,245.8	3,814,245.8	3,814,242.0	3,814,242.0	3,814,238.5	3,814,238.8	3,814,237.8	3,814,237.2	3,814,234.2	3,814,234.5	3,814,233.0	3,814,232.8	3,814,229.8	3,814,229.8	3,814,227.2	3,814,227.5	3,814,220.8	3,814,220.5	3,814,217.2	3,814,216.5	3,814,215.5	3,814,215.0	3,814,216.2	3,814,215.8	3,814,214.5	3,814,213.8	3,814,214.5	3,814,214.5	3,814,218.5	3,814,218.2	3,814,213.0	3,814,212.8	3,814,215.5	3,814,215.0	3,814,215.0	3,814,224.0	3,814,224.0	3,814,226.2	3,814,233.0	3,814,233.2	3,814,236.0	3,814,237.0	3,814,235.8		
		8.72	8.75	8.75	8.82	8.81	8.81	8.78	8.78	8.76	8.76	8.75	8.75	8.72	8.72	8.71	8.71	8.69	8.69	8.67	8.67	8.66	8.62	8.59	8.60	8.59	8.62	8.62	8.65	8.65	8.71	8.71	8.73	8.73	8.77	8.78	8.82	8.81	8.84	8.83	8.82	8.82	8.81	8.82	8.80	8.81	8.80	8.79		
		9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

INPUT: BARRIERS

<Project Name?>

											point1242	242	11,238,130.0	3,814,236.0	8.79	9.75	0.00	0	0
											point1243	243	11,238,130.0	3,814,237.2	8.80	9.75	0.00	0	0
											point1244	244	11,238,134.0	3,814,237.8	8.79	9.75	0.00	0	0
											point1245	245	11,238,134.0	3,814,236.8	8.79	9.75	0.00	0	0
											point1246	246	11,238,138.0	3,814,237.0	8.78	9.75	0.00	0	0
											point1247	247	11,238,138.0	3,814,238.0	8.79	9.75	0.00	0	0
											point1248	248	11,238,143.0	3,814,238.2	8.79	9.75	0.00	0	0
											point1249	249	11,238,143.0	3,814,236.8	8.77	9.75	0.00	0	0
											point1250	250	11,238,145.0	3,814,237.0	8.77	9.75	0.00	0	0
											point1251	251	11,238,145.0	3,814,238.5	8.78	9.75	0.00	0	0
											point1252	252	11,238,152.0	3,814,238.5	8.78	9.75	0.00	0	0
											point1253	253	11,238,152.0	3,814,235.0	8.75	9.75	0.00	0	0
											point1254	254	11,238,154.0	3,814,235.2	8.75	9.75	0.00	0	0
											point1255	255	11,238,154.0	3,814,242.0	8.80	9.75	0.00	0	0
											point1256	256	11,238,152.0	3,814,242.0	8.80	9.75	0.00	0	0
											point1259	259	11,238,152.0	3,814,247.5	8.84	9.75	0.00	0	0
											point1260	260	11,238,155.0	3,814,247.8	8.84	9.75	0.00	0	0
											point1261	261	11,238,154.0	3,814,254.0	8.77	9.75	0.00	0	0
											point1262	262	11,238,152.0	3,814,253.8	8.77	9.75	0.00	0	0
											point1263	263	11,238,152.0	3,814,250.2	8.81	9.75	0.00	0	0
											point1264	264	11,238,145.0	3,814,249.5	8.80	9.75	0.00	0	0
											point1265	265	11,238,145.0	3,814,250.8	8.79	9.75	0.00	0	0
											point1266	266	11,238,143.0	3,814,250.8	8.78	9.75	0.00	0	0
											point1267	267	11,238,143.0	3,814,248.5	8.80	9.75	0.00	0	0
											point1268	268	11,238,138.0	3,814,248.5	8.80	9.75	0.00	0	0
											point1269	269	11,238,138.0	3,814,249.5	8.79	9.75	0.00	0	0
											point1270	270	11,238,132.0	3,814,248.5	8.78	9.75	0.00	0	0
											point1271	271	11,238,132.0	3,814,247.8	8.79	9.75	0.00	0	0
											point1272	272	11,238,124.0	3,814,247.0	8.78	9.75	0.00	0	0
											point1204	204	11,238,124.0	3,814,247.8	8.78	9.75	0.00	0	0
											point1205	205	11,238,120.0	3,814,247.8	8.81	9.75	0.00	0	0
											point1206	206	11,238,120.0	3,814,246.5	8.80	9.75	0.00	0	0
											point1207	207	11,238,113.0	3,814,245.8	8.85	9.75	0.00	0	0
											point1208	208	11,238,113.0	3,814,248.5	8.86	9.75	0.00	0	0
											point1209	209	11,238,110.0	3,814,248.5	8.85	9.75	0.00	0	0
											point1210	210	11,238,110.0	3,814,253.5	8.86	9.75	0.00	0	0
											point1211	211	11,238,106.0	3,814,253.5	8.85	9.75	0.00	0	0
											point1212	212	11,238,106.0	3,814,255.0	8.85	9.75	0.00	0	0
											point1213	213	11,238,110.0	3,814,255.2	8.86	9.75	0.00	0	0
											point1273	273	11,238,109.0	3,814,257.5	8.86	9.75	0.00	0	0
											point1274	274	11,238,109.0	3,814,262.0	8.87	9.75	0.00	0	0
											point1154	154	11,238,109.0	3,814,266.5	8.87	9.75			
											point1278	278	11,238,097.0	3,814,231.8	8.84	4.60	0.00	0	0
										Barrier11	W	0.00	30.48	0.00					
											point1280	280	11,238,106.0	3,814,232.5	8.84	4.60	0.00	0	0
											point1281	281	11,238,106.0	3,814,224.8	8.84	4.60	0.00	0	0
											point1282	282	11,238,110.0	3,814,225.2	8.84	4.60	0.00	0	0
											point1283	283	11,238,111.0	3,814,216.5	8.84	4.60	0.00	0	0
											point1284	284	11,238,108.0	3,814,216.5	8.84	4.60	0.00	0	0
											point1285	285	11,238,108.0	3,814,210.5	8.84	4.60	0.00	0	0



INPUT: BARRIERS

		<Project Name ?>																	
		point336	336	11,237,900.0	3,814,147.5	11.53	6.70	0.00	0	0									
		point337	337	11,237,907.0	3,814,147.0	11.52	6.70	0.00	0	0									
		point338	338	11,237,907.0	3,814,149.2	11.50	6.70	0.00	0	0									
		point339	339	11,237,904.0	3,814,149.5	11.51	6.70	0.00	0	0									
		point340	340	11,237,905.0	3,814,161.8	11.50	6.70	0.00	0	0									
		point341	341	11,237,907.0	3,814,161.5	11.50	6.70	0.00	0	0									
		point342	342	11,237,907.0	3,814,165.5	11.50	6.70	0.00	0	0									
		point343	343	11,237,905.0	3,814,166.0	11.50	6.70	0.00	0	0									
		point344	344	11,237,907.0	3,814,178.0	11.50	6.70	0.00	0	0									
		point345	345	11,237,908.0	3,814,178.0	11.50	6.70	0.00	0	0									
		point346	346	11,237,908.0	3,814,181.8	11.50	6.70	0.00	0	0									
		point347	347	11,237,907.0	3,814,182.5	11.50	6.70	0.00	0	0									
		point348	348	11,237,907.0	3,814,194.2	11.52	6.70	0.00	0	0									
		point349	349	11,237,909.0	3,814,194.2	11.50	6.70	0.00	0	0									
		point350	350	11,237,909.0	3,814,196.5	11.53	6.70	0.00	0	0									
		point351	351	11,237,904.0	3,814,196.8	11.55	6.70	0.00	0	0									
		point352	352	11,237,904.0	3,814,201.0	11.60	6.70	0.00	0	0									
		point298	298	11,237,905.0	3,814,201.0	11.60	6.70												
		point353	353	11,238,039.0	3,814,154.0	9.14	9.75	0.00	0	0									
		point355	355	11,238,038.0	3,814,161.2	9.27	9.75	0.00	0	0									
		point356	356	11,238,041.0	3,814,161.2	9.28	9.75	0.00	0	0									
		point357	357	11,238,039.0	3,814,163.8	9.32	9.75	0.00	0	0									
		point359	359	11,238,039.0	3,814,166.2	9.35	9.75	0.00	0	0									
		point360	360	11,238,038.0	3,814,166.2	9.34	9.75	0.00	0	0									
		point361	361	11,238,038.0	3,814,172.0	9.43	9.75	0.00	0	0									
		point362	362	11,238,041.0	3,814,172.5	9.45	9.75	0.00	0	0									
		point363	363	11,238,041.0	3,814,176.0	9.50	9.75	0.00	0	0									
		point364	364	11,238,047.0	3,814,176.2	9.55	9.75	0.00	0	0									
		point365	365	11,238,048.0	3,814,171.5	9.48	9.75	0.00	0	0									
		point366	366	11,238,052.0	3,814,172.0	9.48	9.75	0.00	0	0									
		point367	367	11,238,052.0	3,814,177.0	9.58	9.75	0.00	0	0									
		point368	368	11,238,056.0	3,814,177.5	9.59	9.75	0.00	0	0									
		point369	369	11,238,056.0	3,814,176.2	9.57	9.75	0.00	0	0									
		point370	370	11,238,063.0	3,814,177.0	9.55	9.75	0.00	0	0									
		point371	371	11,238,063.0	3,814,178.0	9.57	9.75	0.00	0	0									
		point372	372	11,238,067.0	3,814,178.5	9.55	9.75	0.00	0	0									
		point373	373	11,238,067.0	3,814,176.0	9.50	9.75	0.00	0	0									
		point374	374	11,238,074.0	3,814,176.2	9.48	9.75	0.00	0	0									
		point375	375	11,238,074.0	3,814,177.5	9.50	9.75	0.00	0	0									
		point376	376	11,238,077.0	3,814,178.0	9.45	9.75	0.00	0	0									
		point377	377	11,238,077.0	3,814,178.5	9.46	9.75	0.00	0	0									
		point378	378	11,238,080.0	3,814,178.8	9.42	9.75	0.00	0	0									
		point379	379	11,238,080.0	3,814,179.8	9.43	9.75	0.00	0	0									
		point380	380	11,238,091.0	3,814,180.8	9.31	9.75	0.00	0	0									
		point381	381	11,238,091.0	3,814,179.5	9.30	9.75	0.00	0	0									
		point382	382	11,238,092.0	3,814,179.8	9.27	9.75	0.00	0	0									
		point383	383	11,238,093.0	3,814,176.0	9.23	9.75	0.00	0	0									
		point384	384	11,238,098.0	3,814,176.2	9.16	9.75	0.00	0	0									
		point385	385	11,238,098.0	3,814,181.0	9.21	9.75	0.00	0	0									









INPUT: RECEIVERS

<Project Name?>

Dudek  
M Greene

18 April 2014  
TNM 2.5

INPUT: RECEIVERS

PROJECT/CONTRACT: <Project Name?>

RUN: North Willow Springs Project Goleta Ex

Receiver Name	No.	#DUs	Coordinates (ground)		Z	Height above Ground	Input Sound Levels and Criteria		Active in Calc.
			X	Y			Existing LAeq1h dBA	Impact Criteria Sub'l dB	
			m	m	m	m	dBA	dB	dB

Receiver 1	1	1	11,238,159.0	3,814,274.5	10.07	1.50	0.00	66	10.0	8.0	Y
Receiver2	2	1	11,238,145.0	3,814,273.0	10.17	1.50	0.00	66	10.0	8.0	Y
Receiver3	3	1	11,238,128.0	3,814,272.5	10.30	1.50	0.00	66	10.0	8.0	Y
Receiver4	4	1	11,238,113.0	3,814,270.8	10.41	1.50	0.00	66	10.0	8.0	Y
Receiver5	5	1	11,238,106.0	3,814,263.8	10.35	1.50	0.00	66	10.0	8.0	Y
Receiver6	6	1	11,238,108.0	3,814,258.8	10.36	1.50	0.00	66	10.0	8.0	Y
Receiver7	7	1	11,238,109.0	3,814,250.5	10.35	1.50	0.00	66	10.0	8.0	Y
Receiver8	8	1	11,238,117.0	3,814,245.8	10.32	1.50	0.00	66	10.0	8.0	Y
Receiver9	9	1	11,238,130.0	3,814,247.5	10.29	1.50	0.00	66	10.0	8.0	Y
Receiver10	10	1	11,238,141.0	3,814,238.5	10.29	1.50	0.00	66	10.0	8.0	Y
Receiver11	11	1	11,238,133.0	3,814,238.0	10.30	1.50	0.00	66	10.0	8.0	Y
Receiver12	12	1	11,238,122.0	3,814,237.0	10.31	1.50	0.00	66	10.0	8.0	Y
Receiver13	13	1	11,238,115.0	3,814,231.2	10.33	1.50	0.00	66	10.0	8.0	Y
Receiver14	14	1	11,238,116.0	3,814,222.0	10.32	1.50	0.00	66	10.0	8.0	Y
Receiver15	15	1	11,238,124.0	3,814,211.8	10.30	1.50	0.00	66	10.0	8.0	Y
Receiver16	16	1	11,238,169.0	3,814,225.2	10.17	1.50	0.00	66	10.0	8.0	Y
Receiver17	17	1	11,238,166.0	3,814,240.8	10.27	1.50	0.00	66	10.0	8.0	Y
Receiver18	18	1	11,238,169.0	3,814,252.8	10.31	1.50	0.00	66	10.0	8.0	Y
Receiver19	19	1	11,238,164.0	3,814,267.8	10.15	1.50	0.00	66	10.0	8.0	Y
Receiver20	20	1	11,238,095.0	3,814,263.0	10.46	1.50	0.00	66	10.0	8.0	Y
Receiver21	21	1	11,238,091.0	3,814,262.8	10.62	1.50	0.00	66	10.0	8.0	Y
Receiver22	22	1	11,238,083.0	3,814,261.0	10.88	1.50	0.00	66	10.0	8.0	Y











RESULTS: SOUND LEVELS

Dudek																
M Greene																
RESULTS: SOUND LEVELS																
PROJECT/CONTRACT:																
RUN:																
BARRIER DESIGN:																
ATMOSPHERICS:																

<Project Name?>  
 18 April 2014  
 TNM 2.5  
 Calculated with TNM 2.5

<Project Name?>  
 North Willow Springs Project Goleta Ex  
 INPUT HEIGHTS  
 20 deg C, 50% RH

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

Receiver Name	No.	#DUs	Existing LAeq1h dBA	No Barrier LAeq1h dBA	Increase over existing Calculated	Crit'n	With Barrier		Type Impact	Increase over existing Sub'l Inc	Crit'n	Calculated	Goal
							Calculated LdB	Goal LdB					
Receiver 1	1	1	0.0	60.8	66	60.8	10	60.8	0.0	8	60.8	0.0	-8.0
Receiver2	2	1	0.0	60.8	66	60.8	10	60.8	0.0	8	60.8	0.0	-8.0
Receiver3	3	1	0.0	60.8	66	60.8	10	60.8	0.0	8	60.8	0.0	-8.0
Receiver4	4	1	0.0	60.4	66	60.4	10	60.4	0.0	8	60.4	0.0	-8.0
Receiver5	5	1	0.0	54.7	66	54.7	10	54.7	0.0	8	54.7	0.0	-8.0
Receiver6	6	1	0.0	52.9	66	52.9	10	52.9	0.0	8	52.9	0.0	-8.0
Receiver7	7	1	0.0	44.0	66	44.0	10	44.0	0.0	8	44.0	0.0	-8.0
Receiver8	8	1	0.0	42.6	66	42.6	10	42.6	0.0	8	42.6	0.0	-8.0
Receiver9	9	1	0.0	43.6	66	43.6	10	43.6	0.0	8	43.6	0.0	-8.0
Receiver10	10	1	0.0	44.4	66	44.4	10	44.4	0.0	8	44.4	0.0	-8.0
Receiver11	11	1	0.0	44.3	66	44.3	10	44.3	0.0	8	44.3	0.0	-8.0
Receiver12	12	1	0.0	45.0	66	45.0	10	45.0	0.0	8	45.0	0.0	-8.0
Receiver13	13	1	0.0	47.0	66	47.0	10	47.0	0.0	8	47.0	0.0	-8.0
Receiver14	14	1	0.0	46.3	66	46.3	10	46.3	0.0	8	46.3	0.0	-8.0
Receiver15	15	1	0.0	43.5	66	43.5	10	43.5	0.0	8	43.5	0.0	-8.0
Receiver16	16	1	0.0	54.9	66	54.9	10	54.9	0.0	8	54.9	0.0	-8.0
Receiver17	17	1	0.0	52.8	66	52.8	10	52.8	0.0	8	52.8	0.0	-8.0
Receiver18	18	1	0.0	56.9	66	56.9	10	56.9	0.0	8	56.9	0.0	-8.0
Receiver19	19	1	0.0	59.5	66	59.5	10	59.5	0.0	8	59.5	0.0	-8.0
Receiver20	20	1	0.0	59.3	66	59.3	10	59.3	0.0	8	59.3	0.0	-8.0
Receiver21	21	1	0.0	59.7	66	59.7	10	59.7	0.0	8	59.7	0.0	-8.0
Receiver22	22	1	0.0	60.3	66	60.3	10	60.3	0.0	8	60.3	0.0	-8.0
Receiver23	23	1	0.0	60.1	66	60.1	10	60.1	0.0	8	60.1	0.0	-8.0
Receiver24	24	1	0.0	59.7	66	59.7	10	59.7	0.0	8	59.7	0.0	-8.0





**RESULTS: SOUND LEVELS**

Receiver66	66	1	0.0	59.8	66	59.8	10	<Project Name?>	59.8	0.0	8	-8.0
Receiver67	67	1	0.0	58.6	66	58.6	10	<Project Name?>	58.6	0.0	8	-8.0
Receiver68	68	1	0.0	59.7	66	59.7	10	<Project Name?>	59.7	0.0	8	-8.0
Receiver69	69	1	0.0	56.7	66	56.7	10	<Project Name?>	56.7	0.0	8	-8.0
Receiver70	70	1	0.0	60.1	66	60.1	10	<Project Name?>	60.1	0.0	8	-8.0
Receiver71	71	1	0.0	58.9	66	58.9	10	<Project Name?>	58.9	0.0	8	-8.0
Receiver72	72	1	0.0	60.4	66	60.4	10	<Project Name?>	60.4	0.0	8	-8.0
Receiver73	73	1	0.0	60.3	66	60.3	10	<Project Name?>	60.3	0.0	8	-8.0
Receiver74	74	1	0.0	61.1	66	61.1	10	<Project Name?>	61.1	0.0	8	-8.0
Receiver75	75	1	0.0	61.4	66	61.4	10	<Project Name?>	61.4	0.0	8	-8.0
Receiver76	76	1	0.0	52.5	66	52.5	10	<Project Name?>	52.5	0.0	8	-8.0
Receiver77	77	1	0.0	61.3	66	61.3	10	<Project Name?>	61.3	0.0	8	-8.0
Receiver78	78	1	0.0	58.7	66	58.7	10	<Project Name?>	58.7	0.0	8	-8.0
Receiver79	79	1	0.0	58.4	66	58.4	10	<Project Name?>	58.4	0.0	8	-8.0
Receiver80	80	1	0.0	50.8	66	50.8	10	<Project Name?>	50.8	0.0	8	-8.0
Receiver81	81	1	0.0	53.1	66	53.1	10	<Project Name?>	53.1	0.0	8	-8.0
Receiver82	82	1	0.0	59.2	66	59.2	10	<Project Name?>	59.2	0.0	8	-8.0
Receiver83	83	1	0.0	54.4	66	54.4	10	<Project Name?>	54.4	0.0	8	-8.0
Receiver84	84	1	0.0	50.7	66	50.7	10	<Project Name?>	50.7	0.0	8	-8.0
Receiver85	85	1	0.0	46.7	66	46.7	10	<Project Name?>	46.7	0.0	8	-8.0
Receiver86	86	1	0.0	51.4	66	51.4	10	<Project Name?>	51.4	0.0	8	-8.0
Receiver87	87	1	0.0	52.7	66	52.7	10	<Project Name?>	52.7	0.0	8	-8.0
Receiver88	88	1	0.0	53.7	66	53.7	10	<Project Name?>	53.7	0.0	8	-8.0
Receiver89	89	1	0.0	54.6	66	54.6	10	<Project Name?>	54.6	0.0	8	-8.0
Receiver90	90	1	0.0	56.5	66	56.5	10	<Project Name?>	56.5	0.0	8	-8.0
Receiver91	91	1	0.0	61.3	66	61.3	10	<Project Name?>	61.3	0.0	8	-8.0
Receiver92	92	1	0.0	61.6	66	61.6	10	<Project Name?>	61.6	0.0	8	-8.0
Receiver93	93	1	0.0	61.3	66	61.3	10	<Project Name?>	61.3	0.0	8	-8.0
Receiver94	94	1	0.0	61.4	66	61.4	10	<Project Name?>	61.4	0.0	8	-8.0
Receiver95	95	1	0.0	61.5	66	61.5	10	<Project Name?>	61.5	0.0	8	-8.0
Receiver96	10	1	0.0	61.5	66	61.5	10	<Project Name?>	61.5	0.0	8	-8.0
Receiver97	97	1	0.0	61.4	66	61.4	10	<Project Name?>	61.4	0.0	8	-8.0
Receiver98	98	1	0.0	61.2	66	61.2	10	<Project Name?>	61.2	0.0	8	-8.0
Receiver99	99	1	0.0	61.7	66	61.7	10	<Project Name?>	61.7	0.0	8	-8.0
Receiver100	100	1	0.0	61.5	66	61.5	10	<Project Name?>	61.5	0.0	8	-8.0
Receiver101	101	1	0.0	59.3	66	59.3	10	<Project Name?>	59.3	0.0	8	-8.0
Receiver102	102	1	0.0	57.6	66	57.6	10	<Project Name?>	57.6	0.0	8	-8.0
Receiver103	103	1	0.0	55.9	66	55.9	10	<Project Name?>	55.9	0.0	8	-8.0
Receiver104	104	1	0.0	47.9	66	47.9	10	<Project Name?>	47.9	0.0	8	-8.0
Receiver105	105	1	0.0	48.2	66	48.2	10	<Project Name?>	48.2	0.0	8	-8.0
Receiver106	106	1	0.0	47.6	66	47.6	10	<Project Name?>	47.6	0.0	8	-8.0



**RESULTS: SOUND LEVELS**

Receiver	149	1	0.0	50.6	66	<Project Name?>				8	-8.0	
						50.6	10	----	50.6			
Receiver149	149	1	0.0	50.6	66	50.6	10	----	50.6	0.0	8	-8.0
Receiver150	150	1	0.0	44.1	66	44.1	10	----	44.1	0.0	8	-8.0
Receiver151	151	1	0.0	49.3	66	49.3	10	----	49.3	0.0	8	-8.0
Receiver152	152	1	0.0	46.5	66	46.5	10	----	46.5	0.0	8	-8.0
Receiver153	153	1	0.0	45.3	66	45.3	10	----	45.3	0.0	8	-8.0
Receiver154	154	1	0.0	48.9	66	48.9	10	----	48.9	0.0	8	-8.0
Receiver155	155	1	0.0	45.9	66	45.9	10	----	45.9	0.0	8	-8.0
Receiver156	156	1	0.0	47.1	66	47.1	10	----	47.1	0.0	8	-8.0
Receiver157	157	1	0.0	47.5	66	47.5	10	----	47.5	0.0	8	-8.0
Receiver158	158	1	0.0	45.1	66	45.1	10	----	45.1	0.0	8	-8.0
Receiver159	159	1	0.0	44.5	66	44.5	10	----	44.5	0.0	8	-8.0
Receiver160	160	1	0.0	43.9	66	43.9	10	----	43.9	0.0	8	-8.0
Receiver161	161	1	0.0	45.0	66	45.0	10	----	45.0	0.0	8	-8.0
Receiver162	162	1	0.0	46.5	66	46.5	10	----	46.5	0.0	8	-8.0
Receiver163	163	1	0.0	48.1	66	48.1	10	----	48.1	0.0	8	-8.0
Receiver164	164	1	0.0	51.0	66	51.0	10	----	51.0	0.0	8	-8.0
Receiver165	165	1	0.0	52.8	66	52.8	10	----	52.8	0.0	8	-8.0
Receiver166	166	1	0.0	51.6	66	51.6	10	----	51.6	0.0	8	-8.0
Receiver167	167	1	0.0	52.0	66	52.0	10	----	52.0	0.0	8	-8.0
Receiver168	168	1	0.0	52.2	66	52.2	10	----	52.2	0.0	8	-8.0
Receiver169	169	1	0.0	52.0	66	52.0	10	----	52.0	0.0	8	-8.0
Receiver170	170	1	0.0	53.7	66	53.7	10	----	53.7	0.0	8	-8.0
Receiver171	171	1	0.0	52.9	66	52.9	10	----	52.9	0.0	8	-8.0
Receiver172	172	1	0.0	61.3	66	61.3	10	----	61.3	0.0	8	-8.0
Receiver173	173	1	0.0	63.9	66	63.9	10	----	63.9	0.0	8	-8.0
Receiver174	174	1	0.0	61.6	66	61.6	10	----	61.6	0.0	8	-8.0
Receiver175	175	1	0.0	57.6	66	57.6	10	----	57.6	0.0	8	-8.0
Receiver176	176	1	0.0	39.4	66	39.4	10	----	39.4	0.0	8	-8.0
Receiver177	177	1	0.0	54.1	66	54.1	10	----	54.1	0.0	8	-8.0
Receiver178	178	1	0.0	56.1	66	56.1	10	----	56.1	0.0	8	-8.0
Receiver179	179	1	0.0	55.3	66	55.3	10	----	55.3	0.0	8	-8.0
Receiver180	180	1	0.0	55.9	66	55.9	10	----	55.9	0.0	8	-8.0
Receiver181	181	1	0.0	57.5	66	57.5	10	----	57.5	0.0	8	-8.0
Receiver182	182	1	0.0	51.9	66	51.9	10	----	51.9	0.0	8	-8.0
ST_LT1	184	1	0.0	60.5	66	60.5	10	----	60.5	0.0	8	-8.0
Dwelling Units	# DUs	Noise Reduction										
		Min	Avg	Max								
		dB	dB	dB								
All Selected	182	0.0	0.0	0.0								
All Impacted	0	0.0	0.0	0.0								
All that meet NR Goal	0	0.0	0.0	0.0								

# Bericht (Exist w Prj Traffic Only\_New.cna)

Gruppentabelle Tag und Nacht

Name	Expression																		
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night

Source																			
Name	M. ID																		
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Los Carneros Road												41.2		3.7		20.7		35.5	
US 101 SB Onramp														42.5	-86.9	39.5		15.1	
US 101 SB Offramp																		-11.6	
US 101 SB														37.8		20.5		10.2	
US 101 SB		57.7	-84.5	57.7	-84.4	57.2	-84.7	56.5	-86.1	51.1				47.7		43.0		26.1	
US 101 NB		51.9		50.5		50.5		49.6		48.2				45.3		41.0		24.3	
US 101 NB										34.1				36.4		19.3		8.8	
UPRR		49.5	49.5	49.9	49.9	50.3	50.3	50.8	50.8	51.1	51.1	31.8	31.8	32.7	32.7	31.0	31.0		
UPRR																			

## Schallquellen

### Punktquellen

Name	M. ID	Result. PWL			Lw / Li		Correction			Sound Reduction		Attenuation	Operating Time			K0
		Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. (dB(A))	Day (dB(A))	Evening (dB(A))	Night (dB(A))	R		Area (m²)	Day (min)	Special (min)	

### Linienquellen

Name	M. ID	Result. PWL			Result. PWL'			Lw / Li		Correction			Sound Reduction		Attenuation	Open	
		Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. (dB(A))	Day (dB(A))	Evening (dB(A))	Night (dB(A))	R		Area (m²)	Day (min)

### Flächenquellen

Name	M. ID	Result. PWL			Result. PWL"			Lw / Li		Correction			Sound Reduction		Attenuation	Open	
		Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. (dB(A))	Day (dB(A))	Evening (dB(A))	Night (dB(A))	R		Area (m²)	Day (min)

### Flächenquellen vertikal

Name	M. ID	Result. PWL			Result. PWL"			Lw / Li		Correction			Sound Reduction		Attenuation	Open	
		Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. (dB(A))	Day (dB(A))	Evening (dB(A))	Night (dB(A))	R		Area (m²)	Day (min)

### Schienen

Name	M. ID	Lm,E		Train Class	Add.Level				Vmax
		Day (dBA)	Night (dBA)		Dfb (dB)	Dbr (dB)	Dbü (dB)	Dra (dB)	
UPRR		0.0	0.0						
UPRR		0.0	0.0						

### Zugklassen

Name	M. ID	Lm,E		Train Class										Add.Level				Vmax	
		Day	Night	Type	p	Number of Trains			v	l	Dfz	Dae	Lm,E,i (dB)		Dfb	Dbr	Dbü		Dra
		(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night	(dB)	(dB)	(dB)		(dB)
UPRR		0.0	0.0																
UPRR		0.0	0.0																

Name	Lm,E		Train Class										
	Day	Night	Type	p	Number of Trains			v	l	Dfz	Dae	Lm,E,i (dB)	
	(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night

### Parkplätze

Name	M. ID	Type	Lwa			Event Data						Penalty Type		Penalty Surface		A
			Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ			Kpa	Type	Kstro	Surface	
			(dBA)	(dBA)	(dBA)				Day	Special	Night	(dB)		(dB)		

### Strassen

Name	M. ID	Lme			Count Data		exact Count Data						Speed Limit		SCS Dist.	Ds (c)
		Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto	Truck		
		(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(km/h)	(km/h)		
Los Carneros Road		69.3	0.0	0.0			2742.0	0.0	0.0	5.0	0.0	0.0	72		RQ 20	
US 101 SB Onramp		61.2	0.0	0.0			424.0	0.0	0.0	5.0	0.0	0.0	72		RQ 12	
US 101 SB Offramp		60.6	0.0	0.0			142.0	0.0	0.0	5.0	0.0	0.0	100		RQ 12	
US 101 SB		75.3	0.0	0.0			3331.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 SB		74.9	0.0	0.0			3031.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 NB		74.2	0.0	0.0			2567.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 NB		74.2	0.0	0.0			2567.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	

### Ampeln

Name	M. ID	Active			Height	Coordinates		
		Day	Evening	Night	Begin	X	Y	Z
					(m)	(m)	(m)	(m)

### Immissionspunkte

Name	M. ID	Level Lr		Limit. Value		Land Use			Height	Coordinates		
		Day	Night	Day	Night	Type	Auto	Noise Type		X	Y	Z
		(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)
		59.2	49.5	0.0	0.0	x		Total	1.50	r11238158.88	3814274.45	10.07
		59.0	49.9	0.0	0.0	x		Total	1.50	r11238145.19	3814273.08	10.17
		58.7	50.3	0.0	0.0	x		Total	1.50	r11238128.68	3814272.48	10.30
		58.2	50.8	0.0	0.0	x		Total	1.50	r11238111.97	3814270.98	10.41
		55.4	51.1	0.0	0.0	x		Total	1.50	r11238105.86	3814263.69	10.35
		50.8	31.8	0.0	0.0	x		Total	1.50	r11238107.53	3814258.72	10.36
		46.4	32.7	0.0	0.0	x		Total	1.50	r11238109.36	3814250.46	10.35
		37.4	31.0	0.0	0.0	x		Total	1.50	r11238117.34	3814245.69	10.32
		36.7	30.5	0.0	0.0	x		Total	1.50	r11238129.68	3814247.19	10.29
		41.7	39.4	0.0	0.0	x		Total	1.50	r11238139.98	3814238.42	10.29
		41.5	38.4	0.0	0.0	x		Total	1.50	r11238132.71	3814238.00	10.30
		42.0	36.8	0.0	0.0	x		Total	1.50	r11238122.29	3814237.03	10.31
		47.5	39.0	0.0	0.0	x		Total	1.50	r11238115.68	3814231.37	10.33
		47.1	40.0	0.0	0.0	x		Total	1.50	r11238117.37	3814222.06	10.32
		43.3	42.2	0.0	0.0	x		Total	1.50	r11238124.18	3814211.84	10.30
		53.0	28.6	0.0	0.0	x		Total	1.50	r11238167.78	3814224.98	10.17
		44.3	28.4	0.0	0.0	x		Total	1.50	r11238165.37	3814240.73	10.27
		56.7	28.2	0.0	0.0	x		Total	1.50	r11238167.76	3814253.05	10.31
		57.3	28.1	0.0	0.0	x		Total	1.50	r11238163.26	3814267.75	10.15
		57.5	51.4	0.0	0.0	x		Total	1.50	r11238095.94	3814262.98	10.46
		57.8	51.5	0.0	0.0	x		Total	1.50	r11238091.05	3814262.56	10.62

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)		(m)	(m)	(m)
			57.3	42.5	0.0	0.0		x	Total	1.50	r	11238082.91	3814260.93	10.88
			58.4	52.0	0.0	0.0		x	Total	1.50	r	11238077.03	3814261.14	11.08
			58.8	52.2	0.0	0.0		x	Total	1.50	r	11238070.78	3814259.57	11.26
			57.9	32.1	0.0	0.0		x	Total	1.50	r	11238063.82	3814257.53	11.41
			59.0	52.6	0.0	0.0		x	Total	1.50	r	11238058.76	3814259.29	11.50
			59.0	52.9	0.0	0.0		x	Total	1.50	r	11238051.34	3814258.62	11.64
			59.0	53.3	0.0	0.0		x	Total	1.50	r	11238044.92	3814258.04	11.76
			59.0	53.5	0.0	0.0		x	Total	1.50	r	11238038.91	3814257.62	11.87
			58.3	53.6	0.0	0.0		x	Total	1.50	r	11238035.70	3814252.75	11.93
			52.0	45.2	0.0	0.0		x	Total	1.50	r	11238036.20	3814245.83	11.93
			55.4	45.0	0.0	0.0		x	Total	1.50	r	11238034.70	3814242.25	11.97
			55.3	44.8	0.0	0.0		x	Total	1.50	r	11238034.12	3814238.16	11.97
			43.8	42.2	0.0	0.0		x	Total	1.50	r	11238037.20	3814235.58	11.90
			40.4	32.7	0.0	0.0		x	Total	1.50	r	11238041.79	3814233.08	11.77
			40.1	32.5	0.0	0.0		x	Total	1.50	r	11238050.79	3814234.66	11.55
			39.5	31.3	0.0	0.0		x	Total	1.50	r	11238073.05	3814235.66	10.98
			40.5	31.9	0.0	0.0		x	Total	1.50	r	11238092.32	3814237.58	10.49
			41.6	30.2	0.0	0.0		x	Total	1.50	r	11238097.48	3814238.25	10.35
			36.0	29.4	0.0	0.0		x	Total	1.50	r	11238099.57	3814242.92	10.34
			36.1	29.3	0.0	0.0		x	Total	1.50	r	11238099.32	3814249.25	10.34
			34.0	29.2	0.0	0.0		x	Total	1.50	r	11238100.15	3814252.50	10.34
			53.2	29.1	0.0	0.0		x	Total	1.50	r	11238100.82	3814257.51	10.34
			57.9	36.4	0.0	0.0		x	Total	1.50	r	11238006.18	3814253.15	12.23
			59.9	55.1	0.0	0.0		x	Total	1.50	r	11238001.34	3814253.81	12.28
			60.0	55.4	0.0	0.0		x	Total	1.50	r	11237996.01	3814250.31	12.38
			60.4	55.7	0.0	0.0		x	Total	1.50	r	11237988.02	3814249.60	12.42
			57.8	38.4	0.0	0.0		x	Total	1.50	r	11237984.83	3814247.14	12.42
			60.2	54.8	0.0	0.0		x	Total	1.50	r	11237979.50	3814249.06	12.43
			58.7	40.1	0.0	0.0		x	Total	1.50	r	11237972.41	3814248.34	12.45
			60.6	56.9	0.0	0.0		x	Total	1.50	r	11237966.91	3814250.73	12.41
			60.9	57.2	0.0	0.0		x	Total	1.50	r	11237962.02	3814249.08	12.43
			58.3	53.5	0.0	0.0		x	Total	1.50	r	11237960.24	3814244.31	12.50
			54.1	44.0	0.0	0.0		x	Total	1.50	r	11237961.24	3814232.50	12.50
			52.6	44.3	0.0	0.0		x	Total	1.50	r	11237962.10	3814224.53	12.50
			46.5	38.8	0.0	0.0		x	Total	1.50	r	11237965.48	3814220.85	12.50
			47.6	38.1	0.0	0.0		x	Total	1.50	r	11237969.18	3814220.11	12.53
			41.3	38.0	0.0	0.0		x	Total	1.50	r	11237984.40	3814224.30	12.62
			45.1	36.8	0.0	0.0		x	Total	1.50	r	11238003.88	3814223.39	12.77
			41.7	37.5	0.0	0.0		x	Total	1.50	r	11238008.63	3814224.56	12.77
			57.4	36.3	0.0	0.0		x	Total	1.50	r	11238010.32	3814229.42	12.68
			57.5	35.8	0.0	0.0		x	Total	1.50	r	11238009.29	3814238.06	12.49
			57.5	35.3	0.0	0.0		x	Total	1.50	r	11238008.49	3814249.18	12.26
			57.3	38.5	0.0	0.0		x	Total	1.50	r	11237949.84	3814242.00	12.50
			60.6	56.7	0.0	0.0		x	Total	1.50	r	11237947.43	3814247.77	12.52
			61.3	58.1	0.0	0.0		x	Total	1.50	r	11237941.96	3814248.40	12.58
			61.4	58.5	0.0	0.0		x	Total	1.50	r	11237937.34	3814245.25	12.62
			61.9	58.7	0.0	0.0		x	Total	1.50	r	11237929.36	3814244.20	12.71
			57.9	41.2	0.0	0.0		x	Total	1.50	r	11237924.74	3814241.89	12.75
			61.8	58.7	0.0	0.0		x	Total	1.50	r	11237921.16	3814243.89	12.79
			60.0	54.0	0.0	0.0		x	Total	1.50	r	11237913.18	3814243.26	12.87
			62.3	59.3	0.0	0.0		x	Total	1.50	r	11237907.93	3814245.36	12.93
			62.3	59.1	0.0	0.0		x	Total	1.50	r	11237903.22	3814243.82	12.98
			62.3	59.2	0.0	0.0		x	Total	1.50	r	11237901.39	3814239.15	13.00
			62.4	59.5	0.0	0.0		x	Total	1.50	r	11237901.89	3814232.81	13.00
			62.6	59.7	0.0	0.0		x	Total	1.50	r	11237902.64	3814226.72	12.98
			62.8	60.1	0.0	0.0		x	Total	1.50	r	11237903.14	3814220.22	13.03
			58.7	43.3	0.0	0.0		x	Total	1.50	r	11237905.89	3814215.30	13.05
			58.4	42.9	0.0	0.0		x	Total	1.50	r	11237910.23	3814214.63	13.00
			51.5	41.9	0.0	0.0		x	Total	1.50	r	11237915.31	3814218.22	12.88
			52.8	41.0	0.0	0.0		x	Total	1.50	r	11237923.65	3814218.89	12.75
			51.7	40.5	0.0	0.0		x	Total	1.50	r	11237931.41	3814219.39	12.64
			50.6	39.6	0.0	0.0		x	Total	1.50	r	11237938.41	3814220.14	12.55
			50.1	39.4	0.0	0.0		x	Total	1.50	r	11237944.50	3814217.80	12.50

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)		(m)	(m)	(m)
			43.3	39.3	0.0	0.0		x	Total	1.50	r	11237949.25	3814219.14	12.50
			53.1	38.8	0.0	0.0		x	Total	1.50	r	11237951.00	3814224.81	12.50
			56.0	38.5	0.0	0.0		x	Total	1.50	r	11237950.00	3814235.23	12.50
			57.1	55.8	0.0	0.0		x	Total	1.50	r	11237930.46	3814204.31	13.00
			58.4	57.0	0.0	0.0		x	Total	1.50	r	11237924.19	3814204.84	13.04
			61.5	60.2	0.0	0.0		x	Total	1.50	r	11237913.90	3814205.68	13.10
			63.0	60.9	0.0	0.0		x	Total	1.50	r	11237906.25	3814205.88	13.14
			64.1	61.5	0.0	0.0		x	Total	1.50	r	11237903.92	3814198.64	13.08
			64.2	61.9	0.0	0.0		x	Total	1.50	r	11237906.41	3814190.27	13.00
			64.4	62.2	0.0	0.0		x	Total	1.50	r	11237905.92	3814184.34	13.00
			64.7	62.5	0.0	0.0		x	Total	1.50	r	11237905.28	3814175.17	13.00
			64.7	62.5	0.0	0.0		x	Total	1.50	r	11237904.78	3814168.33	13.00
			64.5	62.4	0.0	0.0		x	Total	1.50	r	11237904.36	3814159.15	13.00
			64.5	62.3	0.0	0.0		x	Total	1.50	r	11237903.89	3814152.34	13.00
			64.5	62.4	0.0	0.0		x	Total	1.50	r	11237900.93	3814146.17	13.04
			64.4	62.3	0.0	0.0		x	Total	1.50	r	11237901.77	3814140.17	13.07
			56.8	42.2	0.0	0.0		x	Total	1.50	r	11237904.96	3814138.70	13.07
			54.8	42.1	0.0	0.0		x	Total	1.50	r	11237916.26	3814137.67	13.03
			53.4	41.4	0.0	0.0		x	Total	1.50	r	11237926.46	3814137.10	13.00
			45.5	41.2	0.0	0.0		x	Total	1.50	r	11237930.11	3814142.83	13.00
			44.3	41.6	0.0	0.0		x	Total	1.50	r	11237928.78	3814169.17	13.00
			43.5	41.4	0.0	0.0		x	Total	1.50	r	11237929.78	3814185.83	13.00
			44.2	41.3	0.0	0.0		x	Total	1.50	r	11237932.95	3814200.50	13.00
			60.8	59.6	0.0	0.0		x	Total	1.50	r	11237916.87	3814093.05	9.14
			60.7	59.6	0.0	0.0		x	Total	1.50	r	11237911.83	3814086.96	9.16
			60.6	59.3	0.0	0.0		x	Total	1.50	r	11237907.84	3814085.07	9.15
			60.3	59.0	0.0	0.0		x	Total	1.50	r	11237903.85	3814080.45	9.17
			58.8	57.1	0.0	0.0		x	Total	1.50	r	11237905.11	3814076.46	9.20
			51.6	43.1	0.0	0.0		x	Total	1.50	r	11237911.41	3814071.62	9.05
			53.5	48.0	0.0	0.0		x	Total	1.50	r	11237917.71	3814065.53	8.92
			54.6	51.5	0.0	0.0		x	Total	1.50	r	11237924.85	3814058.18	8.91
			53.9	50.1	0.0	0.0		x	Total	1.50	r	11237931.15	3814054.19	8.92
			50.5	39.1	0.0	0.0		x	Total	1.50	r	11237936.41	3814052.93	8.94
			55.9	53.1	0.0	0.0		x	Total	1.50	r	11237933.89	3814046.84	8.87
			57.6	55.8	0.0	0.0		x	Total	1.50	r	11237929.05	3814041.59	8.79
			59.3	58.0	0.0	0.0		x	Total	1.50	r	11237922.96	3814033.40	8.67
			59.6	58.5	0.0	0.0		x	Total	1.50	r	11237915.40	3814023.32	8.57
			59.2	58.2	0.0	0.0		x	Total	1.50	r	11237910.36	3814016.60	8.56
			55.8	54.9	0.0	0.0		x	Total	1.50	r	11237904.69	3814008.41	8.54
			47.5	46.5	0.0	0.0		x	Total	1.50	r	11237905.53	3814001.90	8.48
			47.8	45.5	0.0	0.0		x	Total	1.50	r	11237908.89	3813998.96	8.43
			50.1	45.7	0.0	0.0		x	Total	1.50	r	11237914.35	3813994.34	8.38
			49.3	44.7	0.0	0.0		x	Total	1.50	r	11237917.92	3813991.82	8.34
			37.4	36.7	0.0	0.0		x	Total	1.50	r	11237925.48	3813995.60	8.25
			37.4	36.7	0.0	0.0		x	Total	1.50	r	11237935.78	3814009.04	8.45
			37.4	36.8	0.0	0.0		x	Total	1.50	r	11237947.96	3814024.79	8.68
			37.5	36.9	0.0	0.0		x	Total	1.50	r	11237960.56	3814040.96	8.92
			51.0	49.7	0.0	0.0		x	Total	1.50	r	11237962.45	3814056.29	9.08
			57.3	56.2	0.0	0.0		x	Total	1.50	r	11237951.11	3814068.68	9.07
			57.0	55.9	0.0	0.0		x	Total	1.50	r	11237956.15	3814064.69	9.08
			57.4	56.4	0.0	0.0		x	Total	1.50	r	11237941.24	3814076.04	9.08
			58.9	58.0	0.0	0.0		x	Total	1.50	r	11237935.57	3814081.92	9.09
			60.3	59.4	0.0	0.0		x	Total	1.50	r	11237927.16	3814088.22	9.09
			59.3	57.3	0.0	0.0		x	Total	1.50	r	11237890.45	3814025.86	8.81
			59.7	58.0	0.0	0.0		x	Total	1.50	r	11237882.51	3814010.85	8.77
			56.7	55.7	0.0	0.0		x	Total	1.50	r	11237901.70	3814017.46	8.64
			59.4	57.9	0.0	0.0		x	Total	1.50	r	11237900.64	3814035.98	8.80
			59.8	58.4	0.0	0.0		x	Total	1.50	r	11237904.48	3814052.79	8.88
			56.0	52.1	0.0	0.0		x	Total	1.50	r	11237887.02	3814002.60	8.75
			51.4	50.6	0.0	0.0		x	Total	1.50	r	11238102.76	3814182.07	10.66
			52.1	51.1	0.0	0.0		x	Total	1.50	r	11238087.19	3814180.63	10.85
			53.0	51.8	0.0	0.0		x	Total	1.50	r	11238054.90	3814177.76	11.10
			53.5	51.7	0.0	0.0		x	Total	1.50	r	11238037.24	3814169.05	10.88



Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)		(m)	(m)	(m)
			53.5	51.9	0.0	0.0		x	Total	1.50	r	11238038.29	3814157.89	10.72
			44.1	34.1	0.0	0.0		x	Total	1.50	r	11238050.67	3814151.80	10.57
			49.8	47.0	0.0	0.0		x	Total	1.50	r	11238056.23	3814218.08	11.20
			47.8	46.2	0.0	0.0		x	Total	1.50	r	11238090.15	3814224.92	10.34
			44.4	42.0	0.0	0.0		x	Total	1.50	r	11238095.64	3814229.01	10.34
			49.3	38.3	0.0	0.0		x	Total	1.50	r	11238104.64	3814233.36	10.34
			45.5	38.4	0.0	0.0		x	Total	1.50	r	11238098.44	3814232.67	10.34
			48.9	47.8	0.0	0.0		x	Total	1.50	r	11238079.26	3814220.55	10.50
			49.1	48.0	0.0	0.0		x	Total	1.50	r	11238079.65	3814215.96	10.57
			43.5	38.1	0.0	0.0		x	Total	1.50	r	11238085.08	3814213.94	10.44
			42.3	35.8	0.0	0.0		x	Total	1.50	r	11238091.30	3814208.91	10.34
			43.7	42.1	0.0	0.0		x	Total	1.50	r	11238105.19	3814209.84	10.34
			36.6	34.9	0.0	0.0		x	Total	1.50	r	11238108.37	3814214.20	10.34
			44.2	34.5	0.0	0.0		x	Total	1.50	r	11238110.80	3814220.79	10.34
			46.7	33.6	0.0	0.0		x	Total	1.50	r	11238106.91	3814228.75	10.34
			51.2	49.2	0.0	0.0		x	Total	1.50	r	11237986.96	3814210.37	12.32
			54.1	49.6	0.0	0.0		x	Total	1.50	r	11237957.55	3814208.80	12.47
			52.0	49.3	0.0	0.0		x	Total	1.50	r	11237953.26	3814188.06	12.45
			53.4	51.9	0.0	0.0		x	Total	1.50	r	11237995.10	3814185.06	11.44
			53.6	51.6	0.0	0.0		x	Total	1.50	r	11238006.27	3814175.23	11.18
			52.8	51.0	0.0	0.0		x	Total	1.50	r	11237988.46	3814166.84	11.21
			54.9	52.7	0.0	0.0		x	Total	1.50	r	11237973.91	3814133.63	12.49
			55.7	53.6	0.0	0.0		x	Total	1.50	r	11237992.23	3814117.48	12.44
			59.4	55.2	0.0	0.0		x	Total	1.50	r	11237833.27	3813996.54	8.83
			60.6	57.0	0.0	0.0		x	Total	1.50	r	11237824.45	3813983.73	8.91
			56.9	39.6	0.0	0.0		x	Total	1.50	r	11237833.27	3813973.23	9.05
			54.1	38.9	0.0	0.0		x	Total	1.50	r	11237867.71	3813948.03	9.00
			37.8	37.2	0.0	0.0		x	Total	1.50	r	11237883.04	3813953.70	8.88
			59.2	58.3	0.0	0.0		x	Total	1.50	r	11237889.97	3813979.95	8.81
			59.9	58.9	0.0	0.0		x	Total	1.50	r	11237880.10	3813982.05	8.82
			60.0	59.0	0.0	0.0		x	Total	1.50	r	11237872.75	3813973.02	8.89
			60.0	59.2	0.0	0.0		x	Total	1.50	r	11237860.99	3813977.22	8.90
			59.7	58.3	0.0	0.0		x	Total	1.50	r	11237843.77	3813990.45	8.88
			52.5	45.5	0.0	0.0		x	Total	1.50	r	11238038.23	3814220.11	11.73
			55.9	49.4	0.0	0.0		x	Total	1.50	r	11238004.69	3814209.22	12.37
ST_LT1			57.6	51.6	0.0	0.0		x	Total	1.50	r	11238077.99	3814278.44	11.32

### Gebietsausweisungen

Name	M.	ID	Type	Persons
				(1/km <sup>2</sup> )

### Hindernisse

#### Schirme

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height	
			left	right		horz.	vert.	Begin	End
					(m)	(m)	(m)	(m)	

#### Häuser

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)
			x	0		3.65 r
			x	0		3.65 r
			x	0		6.70 r
			x	0		6.70 r
			x	0		9.75 r
			x	0		9.75 r

Name	M.	ID	RB	Residents	Absorption	Height
						Begin (m)
			x	0		4.60 r
			x	0		6.70 r
			x	0		9.75 r
			x	0		9.75 r
			x	0		4.60 r
			x	0		9.75 r

### Bewuchs

Name	M.	ID	Height
			(m)

### Bebauung

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

## Geometriedaten

### Geometrie Linienquellen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Flächenquellen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Parkplätze

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Straßen

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin	End	x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		
Los Carneros Road			11237697.29	3813908.86	7.62	7.60		
			11237759.07	3813961.83	10.67	10.70		
			11237782.99	3813989.66	10.67	11.00		
			11237808.40	3814029.18	12.50	12.50		
			11237829.81	3814079.44	12.80	14.00		
			11237845.52	3814131.11	14.33	16.00		
			11237849.30	3814230.44	14.94	18.50		
			11237851.61	3814289.45	16.76	21.30		
			11237854.07	3814329.87	18.29	21.50		
			11237857.43	3814385.23	18.29	18.29		
			11237861.66	3814452.97	16.46	16.46		
US 101 SB Onramp			11237862.91	3814329.11	14.33	21.50		
			11237917.30	3814334.68	14.63	19.00		
			11237998.36	3814343.08	14.63	15.80		
			11238188.34	3814363.72	10.36	12.20		
			11238396.35	3814383.05	9.75	10.40		
US 101 SB Offramp			11237577.38	3814297.86	12.19	12.19		
			11237682.81	3814309.20	14.33	14.33		
			11237760.93	3814317.60	14.33	18.00		
			11237844.93	3814327.68	14.00	21.50		
US 101 SB			11237580.17	3814319.88	12.80	12.80		

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin	End	x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		
			11237676.48	3814338.40	12.50	12.50		
			11237752.15	3814353.33	12.19	12.19		
			11237789.19	3814359.46	12.19	12.19		
			11237847.26	3814365.39	12.50	12.50		
US 101 SB			11237865.59	3814369.12	12.50	12.50		
			11237906.40	3814372.39	11.28	11.28		
			11237997.12	3814376.59	10.97	10.97		
			11238183.92	3814379.77	10.97	10.97		
			11238395.93	3814392.44	10.36	10.36		
US 101 NB			11238394.07	3814413.64	9.14	9.14		
			11238181.55	3814403.56	9.75	9.75		
			11237995.91	3814396.84	11.28	11.28		
			11237901.83	3814389.28	10.67	10.67		
			11237866.49	3814386.68	12.50	12.50		
US 101 NB			11237847.87	3814383.91	12.50	12.50		
			11237786.75	3814375.84	12.19	12.19		
			11237748.95	3814369.96	12.19	12.19		
			11237674.19	3814356.52	13.11	13.11		
			11237577.59	3814337.20	12.50	12.50		

### Geometrie Schienen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)
UPRR	12.50	a	11237570.03	3814262.43	12.50	1.88
			11237838.85	3814285.11	12.50	11.38
UPRR	12.50	a	11237861.86	3814287.47	12.50	11.58
			11238395.28	3814332.85	8.53	0.89

### Geometrie Schirme

Name	M.	ID	Absorption		Z-Ext. (m)	Cantilever		Height		Coordinates			
			left	right		horz. (m)	vert. (m)	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)
										11237880.37	3814214.17	14.90	13.10
										11237881.18	3814251.51	14.90	13.10
										11237882.02	3814269.67	13.70	11.90
										11237895.41	3814270.84	13.40	11.60
										11237911.06	3814272.16	12.80	11.00
										11237945.61	3814275.47	12.80	11.00
										11237961.46	3814277.18	12.50	10.70
										11238006.41	3814281.33	12.30	10.50
										11238074.37	3814287.71	11.90	10.10
										11238128.78	3814292.54	10.95	9.15
										11238169.64	3814296.43	10.34	8.54
										11238187.40	3814297.69	10.95	9.15

### Geometrie Häuser

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates				
							x	y	z	Ground	
							(m)	(m)	(m)	(m)	
						3.65	r	11238188.92	3814297.40	12.80	9.15
								11238194.21	3814297.14	12.80	9.21
								11238193.42	3814235.75	12.80	8.41
								11238220.94	3814234.69	12.80	8.50
								11238220.67	3814227.01	12.80	8.34
								11238187.86	3814229.66	12.80	8.27
								11238189.18	3814297.40	12.80	9.15
						3.65	r	11238198.18	3814176.74	11.11	7.46
								11238200.30	3814224.10	11.11	8.31
								11238237.34	3814223.31	11.11	8.24
								11238236.55	3814196.05	11.11	7.69

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238223.32	3814196.32	11.11	7.71
							11238222.79	3814175.68	11.11	7.29
			x	0		6.70	11237903.99	3814215.91	18.27	11.57
							11237901.32	3814243.25	18.27	11.50
							11237905.31	3814243.57	18.27	11.46
							11237905.26	3814244.72	18.27	11.46
							11237909.41	3814244.98	18.27	11.42
							11237909.83	3814239.79	18.27	11.40
							11237911.82	3814239.94	18.27	11.38
							11237911.77	3814242.25	18.27	11.39
							11237923.27	3814243.15	18.27	11.27
							11237923.43	3814240.99	18.27	11.26
							11237927.52	3814241.41	18.27	11.22
							11237927.31	3814243.51	18.27	11.23
							11237939.07	3814244.68	18.27	11.11
							11237939.22	3814242.53	18.27	11.10
							11237941.17	3814242.68	18.27	11.08
							11237940.69	3814247.83	18.27	11.10
							11237944.63	3814248.15	18.27	11.05
							11237944.74	3814246.83	18.27	11.05
							11237948.73	3814247.15	18.27	11.01
							11237951.25	3814219.58	18.27	11.00
							11237947.26	3814219.27	18.27	11.00
							11237947.34	3814218.14	18.27	11.00
							11237943.38	3814217.89	18.27	11.00
							11237942.88	3814222.85	18.27	11.01
							11237941.01	3814222.81	18.27	11.03
							11237941.13	3814220.39	18.27	11.03
							11237913.61	3814218.28	18.27	11.40
							11237913.48	3814220.39	18.27	11.37
							11237911.36	3814220.19	18.27	11.41
							11237911.89	3814215.23	18.27	11.47
							11237907.92	3814214.84	18.27	11.53
							11237907.79	3814215.89	18.27	11.52
							11237903.82	3814215.50	18.27	11.57
			x	0		6.70	11237960.36	3814248.60	17.64	10.94
							11237964.18	3814248.92	17.64	10.94
							11237964.17	3814249.98	17.64	10.92
							11237968.27	3814250.40	17.64	10.92
							11237968.69	3814245.25	17.64	10.97
							11237970.58	3814245.46	17.64	10.96
							11237970.37	3814247.66	17.64	10.96
							11237982.13	3814248.71	17.64	10.93
							11237982.45	3814246.30	17.64	10.93
							11237986.44	3814246.72	17.64	10.93
							11237986.23	3814249.03	17.64	10.91
							11237997.99	3814249.98	17.64	10.87
							11237998.10	3814247.77	17.64	10.91
							11237999.99	3814247.98	17.64	10.88
							11237999.57	3814253.13	17.64	10.80
							11238004.30	3814253.65	17.64	10.75
							11238004.33	3814252.58	17.64	10.75
							11238007.69	3814252.90	17.64	10.71
							11238010.07	3814225.08	17.64	11.27
							11238006.19	3814224.87	17.64	11.24
							11238006.29	3814223.72	17.64	11.26
							11238002.14	3814223.44	17.64	11.26
							11238001.77	3814228.23	17.64	11.21
							11237999.88	3814228.13	17.64	11.20
							11238000.02	3814226.06	17.64	11.22
							11237972.62	3814223.61	17.64	11.03
							11237972.36	3814225.92	17.64	11.01
							11237970.47	3814225.82	17.64	10.99

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237971.00	3814220.46	17.64	11.05
							11237967.11	3814219.93	17.64	11.02
							11237966.80	3814221.40	17.64	11.00
							11237962.80	3814220.88	17.64	11.00
			x	0		9.75	11238034.68	3814235.95	20.20	10.45
							11238034.15	3814241.31	20.20	10.48
							11238035.41	3814241.31	20.20	10.45
							11238034.89	3814244.67	20.20	10.46
							11238036.99	3814244.88	20.20	10.42
							11238036.78	3814247.40	20.20	10.42
							11238034.26	3814247.29	20.20	10.46
							11238034.26	3814248.66	20.20	10.45
							11238036.57	3814248.97	20.20	10.42
							11238036.04	3814253.91	20.20	10.43
							11238037.51	3814254.12	20.20	10.40
							11238037.30	3814256.75	20.20	10.40
							11238046.44	3814257.59	20.20	10.23
							11238046.65	3814255.28	20.20	10.23
							11238048.96	3814255.49	20.20	10.18
							11238048.86	3814257.80	20.20	10.18
							11238060.52	3814258.85	20.20	9.97
							11238060.83	3814256.64	20.20	9.96
							11238065.56	3814257.06	20.20	9.87
							11238065.45	3814257.80	20.20	9.88
							11238069.44	3814258.11	20.20	9.78
							11238069.23	3814258.85	20.20	9.79
							11238072.65	3814259.11	20.20	9.71
							11238072.49	3814260.21	20.20	9.72
							11238081.66	3814261.05	20.20	9.43
							11238081.66	3814260.05	20.20	9.42
							11238084.75	3814260.46	20.20	9.32
							11238085.16	3814256.30	20.20	9.30
							11238090.42	3814257.05	20.20	9.13
							11238089.92	3814261.88	20.20	9.16
							11238096.58	3814262.38	20.20	8.94
							11238096.75	3814259.05	20.20	8.93
							11238100.34	3814259.38	20.20	8.84
							11238101.09	3814253.71	20.20	8.84
							11238099.67	3814253.54	20.20	8.84
							11238099.92	3814250.54	20.20	8.84
							11238098.84	3814250.54	20.20	8.84
							11238099.00	3814247.71	20.20	8.84
							11238101.42	3814247.96	20.20	8.84
							11238101.25	3814246.21	20.20	8.84
							11238098.84	3814246.04	20.20	8.84
							11238099.25	3814241.12	20.20	8.84
							11238098.42	3814241.12	20.20	8.84
							11238098.50	3814238.70	20.20	8.84
							11238090.33	3814237.95	20.20	9.05
							11238090.33	3814238.70	20.20	9.05
							11238087.16	3814238.54	20.20	9.13
							11238087.33	3814237.37	20.20	9.12
							11238078.16	3814236.45	20.20	9.35
							11238077.99	3814237.37	20.20	9.36
							11238074.66	3814237.12	20.20	9.45
							11238074.74	3814236.04	20.20	9.44
							11238069.91	3814235.79	20.20	9.56
							11238069.82	3814236.79	20.20	9.57
							11238063.74	3814236.12	20.20	9.73
							11238063.74	3814235.16	20.20	9.72
							11238054.52	3814234.22	20.20	9.95
							11238054.48	3814235.37	20.20	9.96
							11238045.56	3814234.62	20.20	10.19

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238045.56	3814233.62	20.20	10.18
							11238038.48	3814233.12	20.20	10.36
							11238038.14	3814236.12	20.20	10.38
			x	0		9.75	11238106.23	3814266.67	18.61	8.86
							11238109.59	3814266.88	18.61	8.88
							11238109.38	3814269.82	18.61	8.89
							11238116.31	3814270.66	18.61	8.90
							11238117.26	3814265.51	18.61	8.88
							11238122.10	3814265.85	18.61	8.84
							11238121.84	3814270.15	18.61	8.85
							11238124.75	3814270.28	18.61	8.83
							11238124.82	3814271.34	18.61	8.83
							11238134.15	3814272.07	18.61	8.76
							11238134.21	3814270.94	18.61	8.75
							11238137.45	3814271.34	18.61	8.73
							11238137.19	3814272.40	18.61	8.73
							11238141.94	3814272.82	18.61	8.69
							11238141.94	3814271.82	18.61	8.69
							11238148.11	3814272.57	18.61	8.64
							11238148.28	3814273.48	18.61	8.64
							11238152.86	3814273.98	18.61	8.61
							11238152.95	3814273.07	18.61	8.60
							11238160.89	3814273.86	18.61	8.58
							11238161.15	3814270.95	18.61	8.61
							11238162.54	3814271.08	18.61	8.61
							11238162.81	3814266.25	18.61	8.66
							11238165.25	3814266.45	18.61	8.66
							11238165.32	3814264.80	18.61	8.68
							11238162.87	3814264.66	18.61	8.68
							11238163.14	3814262.15	18.61	8.70
							11238166.25	3814262.55	18.61	8.71
							11238166.31	3814260.89	18.61	8.72
							11238164.13	3814260.69	18.61	8.72
							11238164.33	3814258.31	18.61	8.75
							11238166.64	3814258.51	18.61	8.75
							11238167.64	3814247.33	18.61	8.82
							11238167.64	3814246.00	18.61	8.81
							11238163.72	3814245.67	18.61	8.81
							11238163.89	3814241.75	18.61	8.78
							11238164.78	3814241.78	18.61	8.78
							11238165.04	3814238.54	18.61	8.76
							11238166.23	3814238.71	18.61	8.76
							11238166.30	3814237.48	18.61	8.75
							11238163.76	3814237.28	18.61	8.75
							11238164.02	3814234.21	18.61	8.72
							11238166.47	3814234.47	18.61	8.72
							11238166.66	3814232.95	18.61	8.71
							11238163.36	3814232.75	18.61	8.71
							11238163.42	3814229.77	18.61	8.69
							11238164.61	3814229.77	18.61	8.69
							11238164.75	3814227.19	18.61	8.67
							11238167.00	3814227.39	18.61	8.67
							11238167.59	3814220.78	18.61	8.66
							11238163.95	3814220.38	18.61	8.62
							11238164.27	3814217.23	18.61	8.59
							11238156.28	3814216.81	18.61	8.60
							11238156.18	3814215.44	18.61	8.59
							11238151.56	3814214.92	18.61	8.62
							11238151.45	3814216.18	18.61	8.62
							11238145.15	3814215.65	18.61	8.65
							11238145.25	3814214.60	18.61	8.65
							11238136.01	3814213.87	18.61	8.71
							11238136.01	3814214.60	18.61	8.71

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
						11238132.86	3814214.50	18.61	8.73	
						11238132.54	3814218.38	18.61	8.73	
						11238126.87	3814218.07	18.61	8.77	
						11238127.40	3814213.03	18.61	8.78	
						11238120.78	3814212.50	18.61	8.82	
						11238120.58	3814215.48	18.61	8.81	
						11238117.10	3814215.13	18.61	8.84	
						11238116.49	3814220.84	18.61	8.83	
						11238117.73	3814220.90	18.61	8.82	
						11238117.52	3814223.95	18.61	8.82	
						11238118.78	3814224.05	18.61	8.81	
						11238118.50	3814226.50	18.61	8.81	
						11238116.47	3814226.37	18.61	8.82	
						11238116.05	3814232.93	18.61	8.82	
						11238119.15	3814233.30	18.61	8.80	
						11238118.89	3814236.34	18.61	8.81	
						11238126.87	3814236.97	18.61	8.80	
						11238127.06	3814235.74	18.61	8.79	
						11238130.34	3814236.03	18.61	8.79	
						11238130.23	3814237.29	18.61	8.80	
						11238135.07	3814237.81	18.61	8.79	
						11238135.16	3814236.77	18.61	8.79	
						11238137.87	3814236.95	18.61	8.78	
						11238137.94	3814238.01	18.61	8.79	
						11238142.84	3814238.34	18.61	8.79	
						11238142.93	3814236.78	18.61	8.77	
						11238145.70	3814237.04	18.61	8.77	
						11238145.57	3814238.45	18.61	8.78	
						11238151.09	3814238.63	18.61	8.78	
						11238151.37	3814235.03	18.61	8.75	
						11238154.39	3814235.19	18.61	8.75	
						11238153.66	3814241.91	18.61	8.80	
						11238151.03	3814241.70	18.61	8.80	
						11238150.79	3814244.75	18.61	8.82	
						11238152.42	3814244.85	18.61	8.82	
						11238152.29	3814247.48	18.61	8.84	
						11238154.60	3814247.79	18.61	8.84	
						11238153.93	3814254.00	18.61	8.77	
						11238151.03	3814253.68	18.61	8.77	
						11238151.24	3814250.00	18.61	8.81	
						11238146.30	3814249.58	18.61	8.80	
						11238146.24	3814250.82	18.61	8.79	
						11238142.93	3814250.81	18.61	8.78	
						11238143.05	3814248.84	18.61	8.80	
						11238138.53	3814248.42	18.61	8.80	
						11238138.53	3814249.37	18.61	8.79	
						11238131.60	3814248.74	18.61	8.78	
						11238131.49	3814247.79	18.61	8.79	
						11238122.57	3814247.06	18.61	8.78	
						11238122.57	3814247.79	18.61	8.78	
						11238119.62	3814247.69	18.61	8.81	
						11238119.83	3814246.43	18.61	8.80	
						11238111.96	3814245.80	18.61	8.85	
						11238111.75	3814248.53	18.61	8.86	
						11238110.17	3814248.63	18.61	8.85	
						11238109.75	3814253.57	18.61	8.86	
						11238107.44	3814253.47	18.61	8.85	
						11238107.23	3814254.94	18.61	8.85	
						11238109.65	3814255.15	18.61	8.86	
						11238109.44	3814257.67	18.61	8.87	
						11238108.17	3814257.77	18.61	8.86	
						11238108.17	3814260.61	18.61	8.86	
						11238106.70	3814260.61	18.61	8.85	

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
			x	0	4.60	r	11238097.36	3814231.78	13.44	8.84
							11238106.36	3814232.57	13.44	8.84
							11238107.15	3814224.83	13.44	8.84
							11238110.06	3814225.16	13.44	8.84
							11238110.59	3814216.69	13.44	8.84
							11238107.68	3814216.44	13.44	8.84
							11238108.21	3814210.54	13.44	8.84
							11238104.31	3814210.14	13.44	8.84
							11238104.24	3814211.66	13.44	8.84
							11238100.20	3814211.26	13.44	8.84
							11238099.94	3814213.25	13.44	8.84
							11238096.56	3814212.92	13.44	8.84
							11238097.03	3814209.74	13.44	8.84
							11238088.95	3814208.88	13.44	8.87
							11238088.23	3814214.70	13.44	8.86
							11238080.15	3814214.17	13.44	9.07
							11238079.56	3814222.05	13.44	8.98
							11238098.22	3814223.90	13.44	8.84
			x	0	6.70	r	11237905.46	3814205.38	18.34	11.64
							11237914.47	3814205.18	18.34	11.59
							11237914.43	3814204.36	18.34	11.58
							11237923.12	3814203.86	18.34	11.53
							11237923.13	3814204.51	18.34	11.54
							11237932.31	3814203.84	18.34	11.50
							11237932.04	3814199.06	18.34	11.50
							11237932.94	3814199.01	18.34	11.50
							11237932.73	3814195.02	18.34	11.50
							11237927.74	3814195.33	18.34	11.50
							11237927.74	3814193.13	18.34	11.50
							11237929.89	3814192.97	18.34	11.50
							11237929.06	3814180.72	18.34	11.50
							11237926.72	3814181.05	18.34	11.50
							11237926.64	3814176.71	18.34	11.50
							11237928.76	3814176.52	18.34	11.50
							11237927.92	3814163.93	18.34	11.50
							11237925.76	3814164.09	18.34	11.50
							11237925.76	3814160.17	18.34	11.50
							11237927.84	3814159.92	18.34	11.50
							11237927.34	3814148.00	18.34	11.50
							11237925.09	3814148.17	18.34	11.50
							11237924.92	3814146.00	18.34	11.50
							11237929.92	3814145.67	18.34	11.50
							11237929.63	3814141.37	18.34	11.50
							11237928.38	3814141.37	18.34	11.50
							11237928.34	3814137.33	18.34	11.50
							11237921.63	3814137.66	18.34	11.51
							11237921.59	3814136.87	18.34	11.52
							11237919.59	3814137.00	18.34	11.52
							11237919.59	3814137.96	18.34	11.52
							11237910.66	3814138.46	18.34	11.55
							11237910.54	3814137.66	18.34	11.55
							11237908.40	3814137.96	18.34	11.56
							11237908.44	3814138.69	18.34	11.55
							11237901.91	3814139.04	18.34	11.58
							11237902.12	3814143.33	18.34	11.55
							11237901.04	3814143.33	18.34	11.56
							11237901.24	3814147.42	18.34	11.53
							11237906.23	3814147.16	18.34	11.52
							11237906.41	3814149.29	18.34	11.50
							11237904.08	3814149.46	18.34	11.51
							11237904.83	3814161.72	18.34	11.50
							11237907.25	3814161.55	18.34	11.50
							11237907.41	3814165.64	18.34	11.50



Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237905.16	3814165.89	18.34	11.50
							11237906.00	3814177.97	18.34	11.50
							11237907.83	3814177.81	18.34	11.50
							11237908.08	3814182.06	18.34	11.50
							11237906.08	3814182.48	18.34	11.50
							11237906.87	3814194.52	18.34	11.52
							11237909.12	3814194.26	18.34	11.50
							11237909.19	3814196.57	18.34	11.53
							11237904.19	3814196.84	18.34	11.55
							11237904.45	3814201.12	18.34	11.60
							11237905.35	3814201.07	18.34	11.60
			x	0		9.75	r 11238039.03	3814154.34	18.89	9.14
							11238038.54	3814160.90	18.89	9.27
							11238040.69	3814161.10	18.89	9.28
							11238040.44	3814163.68	18.89	9.32
							11238039.44	3814163.68	18.89	9.31
							11238039.28	3814166.27	18.89	9.35
							11238037.86	3814166.27	18.89	9.34
							11238037.61	3814172.19	18.89	9.43
							11238040.94	3814172.44	18.89	9.45
							11238040.69	3814175.94	18.89	9.50
							11238047.20	3814176.27	18.89	9.55
							11238047.61	3814171.52	18.89	9.48
							11238052.53	3814171.94	18.89	9.48
							11238052.12	3814176.94	18.89	9.58
							11238057.20	3814177.35	18.89	9.59
							11238057.28	3814176.52	18.89	9.57
							11238063.29	3814176.94	18.89	9.55
							11238063.20	3814178.02	18.89	9.57
							11238067.87	3814178.52	18.89	9.55
							11238068.29	3814176.06	18.89	9.50
							11238073.42	3814176.44	18.89	9.48
							11238073.29	3814177.35	18.89	9.50
							11238077.13	3814177.77	18.89	9.45
							11238077.09	3814178.52	18.89	9.46
							11238080.05	3814178.77	18.89	9.42
							11238079.96	3814179.77	18.89	9.43
							11238089.63	3814180.36	18.89	9.31
							11238089.80	3814179.48	18.89	9.30
							11238092.47	3814179.69	18.89	9.27
							11238092.89	3814176.02	18.89	9.23
							11238098.22	3814176.52	18.89	9.16
							11238097.64	3814181.11	18.89	9.21
							11238104.47	3814181.69	18.89	9.13
							11238104.61	3814178.58	18.89	9.10
							11238108.51	3814178.91	18.89	9.06
							11238108.97	3814173.35	18.89	9.01
							11238107.44	3814173.24	18.89	9.01
							11238108.78	3814158.07	18.89	8.86
							11238042.87	3814151.71	18.89	9.08
							11238042.54	3814154.56	18.89	9.14
			x	0		9.75	r 11237904.07	3814078.49	17.44	7.69
							11237909.95	3814086.21	17.44	7.65
							11237912.05	3814084.16	17.44	7.65
							11237913.15	3814085.47	17.44	7.65
							11237912.42	3814086.21	17.44	7.67
							11237917.51	3814092.72	17.44	7.64
							11237924.66	3814086.79	17.44	7.57
							11237926.07	3814088.52	17.44	7.59
							11237928.99	3814085.74	17.44	7.58
							11237929.44	3814086.26	17.44	7.59
							11237937.05	3814079.91	17.44	7.58
							11237936.21	3814078.86	17.44	7.57

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
						11237938.31	3814077.12	17.44	7.57	
						11237938.68	3814077.60	17.44	7.58	
						11237942.20	3814074.81	17.44	7.57	
						11237941.25	3814073.66	17.44	7.56	
						11237946.14	3814069.72	17.44	7.56	
						11237946.77	3814070.35	17.44	7.57	
						11237948.66	3814068.56	17.44	7.56	
						11237949.60	3814069.46	17.44	7.57	
						11237957.06	3814063.26	17.44	7.58	
						11237956.22	3814062.21	17.44	7.58	
						11237958.47	3814060.48	17.44	7.58	
						11237955.38	3814056.64	17.44	7.55	
						11237956.54	3814055.59	17.44	7.55	
						11237958.64	3814057.90	17.44	7.57	
						11237965.99	3814052.23	17.44	7.57	
						11237964.24	3814049.73	17.44	7.54	
						11237965.57	3814048.56	17.44	7.53	
						11237920.72	3813989.94	17.44	6.81	
						11237912.53	3813997.09	17.44	6.88	
						11237914.31	3813999.19	17.44	6.88	
						11237913.05	3814000.03	17.44	6.90	
						11237911.37	3813997.82	17.44	6.90	
						11237903.81	3814004.23	17.44	7.02	
						11237905.59	3814006.44	17.44	7.02	
						11237904.33	3814007.17	17.44	7.04	
						11237907.69	3814011.16	17.44	7.03	
						11237909.27	3814009.80	17.44	7.01	
						11237910.95	3814012.00	17.44	7.01	
						11237910.00	3814012.74	17.44	7.03	
						11237911.90	3814014.94	17.44	7.03	
						11237910.85	3814015.89	17.44	7.04	
						11237917.15	3814023.66	17.44	7.06	
						11237918.30	3814022.82	17.44	7.04	
						11237921.67	3814027.13	17.44	7.09	
						11237920.51	3814028.08	17.44	7.10	
						11237926.39	3814036.27	17.44	7.22	
						11237927.55	3814035.32	17.44	7.21	
						11237930.70	3814039.32	17.44	7.27	
						11237929.33	3814040.58	17.44	7.28	
						11237932.51	3814044.55	17.44	7.34	
						11237933.24	3814044.08	17.44	7.34	
						11237935.69	3814047.39	17.44	7.39	
						11237937.14	3814045.67	17.44	7.37	
						11237938.00	3814046.60	17.44	7.39	
						11237938.67	3814046.10	17.44	7.38	
						11237941.09	3814049.27	17.44	7.43	
						11237942.17	3814049.35	17.44	7.44	
						11237941.92	3814050.18	17.44	7.44	
						11237942.09	3814051.85	17.44	7.46	
						11237939.17	3814053.60	17.44	7.46	
						11237938.42	3814053.18	17.44	7.46	
						11237935.42	3814055.77	17.44	7.45	
						11237934.75	3814055.02	17.44	7.44	
						11237934.08	3814055.52	17.44	7.44	
						11237932.58	3814053.52	17.44	7.43	
						11237929.00	3814056.35	17.44	7.42	
						11237929.75	3814057.27	17.44	7.43	
						11237927.91	3814058.69	17.44	7.43	
						11237927.16	3814057.35	17.44	7.42	
						11237919.33	3814063.94	17.44	7.42	
						11237920.08	3814064.77	17.44	7.43	
						11237916.03	3814068.10	17.44	7.43	
						11237915.17	3814067.34	17.44	7.44	

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x (m)	y (m)	z (m)	Ground (m)
							11237914.16	3814068.44	17.44	7.47
							11237915.82	3814070.11	17.44	7.45
							11237914.10	3814071.65	17.44	7.50
							11237913.49	3814070.86	17.44	7.50
							11237909.55	3814074.43	17.44	7.61
							11237909.97	3814074.85	17.44	7.60
							11237907.93	3814076.62	17.44	7.66
							11237906.24	3814074.64	17.44	7.67
							11237905.33	3814075.52	17.44	7.69
							11237906.14	3814076.48	17.44	7.69
			x	0		4.60 r	11237881.78	3814008.79	11.88	7.28
							11237891.07	3814025.96	11.88	7.31
							11237893.17	3814024.65	11.88	7.28
							11237893.49	3814025.39	11.88	7.28
							11237895.54	3814024.13	11.88	7.25
							11237895.22	3814023.60	11.88	7.25
							11237897.43	3814022.39	11.88	7.22
							11237899.74	3814021.08	11.88	7.19
							11237895.70	3814013.52	11.88	7.17
							11237898.69	3814011.78	11.88	7.13
							11237895.49	3814005.48	11.88	7.11
							11237897.74	3814004.22	11.88	7.08
							11237895.07	3813999.55	11.88	7.15
							11237893.17	3814000.70	11.88	7.17
							11237892.65	3813999.81	11.88	7.18
							11237891.39	3814000.91	11.88	7.19
							11237890.50	3813999.28	11.88	7.23
							11237887.71	3814001.23	11.88	7.25
							11237888.34	3814002.59	11.88	7.23
							11237886.92	3814003.38	11.88	7.24
							11237887.34	3814004.11	11.88	7.23
							11237883.93	3814006.11	11.88	7.27
							11237884.56	3814007.11	11.88	7.25
			x	0		9.75 r	11237824.66	3813980.79	17.23	7.48
							11237875.27	3813944.25	17.23	7.41
							11237897.74	3813973.02	17.23	7.33
							11237883.25	3813983.52	17.23	7.31
							11237871.49	3813968.61	17.23	7.42
							11237835.16	3813995.91	17.23	7.33

### Geometrie Höhenlinien

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11237871.28	3814268.78	13.40
						11237882.03	3814269.78	11.90
						11237895.54	3814270.95	11.60
						11237910.79	3814272.20	11.00
						11237946.38	3814275.70	11.00
						11237960.87	3814277.35	10.70
						11238006.05	3814281.45	10.50
						11238074.42	3814287.97	10.10
						11238128.34	3814292.90	9.15
						11238169.52	3814296.90	8.54
						11238187.85	3814298.40	9.15
						11238186.80	3814204.20	7.93
						11237865.11	3814280.70	12.20
						11237919.09	3814284.91	11.00
						11238073.25	3814299.82	11.00
						11238250.89	3814315.71	10.10
						11237881.92	3814269.56	11.90
						11237880.84	3814250.05	13.10

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						11237880.31	3814214.13	13.10
						11237879.47	3814200.69	13.40
						11237878.61	3814185.47	13.70
						11237876.44	3814158.13	12.80
						11237869.11	3814116.46	13.40
						11237862.61	3814092.28	14.90
						11237859.87	3814081.36	14.00
						11237854.83	3814065.92	13.70
						11237846.22	3814043.24	12.30
						11237832.15	3814014.88	11.90
						11237818.29	3813991.15	10.80
						11237902.99	3814212.44	11.60
						11237901.21	3814224.35	11.50
						11237900.28	3814243.40	11.50
						11237902.00	3814246.57	11.50
						11237950.17	3814249.75	11.00
						11237953.34	3814243.13	11.00
						11237958.77	3814244.06	11.00
						11237960.35	3814251.21	10.90
						11237989.86	3814253.46	10.90
						11238007.73	3814255.18	10.70
						11238009.71	3814251.60	10.70
						11238012.09	3814224.48	11.30
						11238004.75	3814221.37	11.30
						11237962.54	3814218.13	11.00
						11237942.76	3814216.34	11.00
						11237905.17	3814212.56	11.60
						11238034.49	3814231.70	10.40
						11238032.99	3814240.04	10.50
						11238032.90	3814255.29	10.40
						11238037.07	3814258.71	10.40
						11238071.50	3814261.46	9.76
						11238099.75	3814264.05	8.84
						11238103.51	3814259.21	8.84
						11238102.92	3814241.21	8.84
						11238097.59	3814236.29	8.84
						11238036.24	3814231.12	10.40
						11238112.56	3814239.62	8.84
						11238108.46	3814246.89	8.84
						11238105.41	3814257.35	8.84
						11238103.30	3814270.71	8.84
						11238114.15	3814274.15	8.93
						11238162.18	3814277.99	8.54
						11238169.19	3814272.83	8.54
						11238172.37	3814250.73	8.84
						11238172.50	3814218.98	8.84
						11238164.30	3814210.64	8.54
						11238121.56	3814208.39	8.84
						11238114.94	3814217.25	8.84
						11238112.16	3814239.35	8.84
						11238112.72	3814207.99	8.84
						11238091.71	3814201.80	8.84
						11238077.95	3814210.62	9.15
						11238074.07	3814220.91	8.99
						11238085.10	3814231.21	8.84
						11238099.06	3814234.46	8.84
						11238035.65	3814154.34	9.15
						11238032.74	3814175.25	9.45
						11238059.21	3814185.97	9.76
						11238107.77	3814188.61	9.15
						11238122.06	3814164.66	9.15
						11238120.07	3814155.53	9.15
						11237903.76	3814209.71	11.70

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11237902.44	3814191.06	11.50
						11237901.25	3814153.21	11.50
						11237899.92	3814136.14	11.60
						11237930.89	3814133.89	11.50
						11237935.25	3814206.67	11.50
						11237933.93	3814132.97	11.50
						11237963.18	3814143.95	11.00
						11237993.61	3814171.60	9.45
						11238023.78	3814173.72	9.76
						11237898.20	3814133.45	11.00
						11237897.36	3814121.11	8.54
						11237893.03	3814100.94	7.62
						11237880.03	3814067.93	7.62
						11237861.35	3814016.74	7.62
						11237844.60	3814008.66	7.32
						11237824.93	3813996.32	7.32
						11237916.25	3814099.08	7.93
						11237901.43	3814082.14	7.62
						11237900.90	3814072.35	7.74
						11237912.78	3814050.56	7.32
						11237892.08	3814029.08	7.32
						11237877.91	3814010.91	7.32
						11237871.24	3813998.24	7.26
						11237854.43	3813994.25	7.32
						11237831.96	3813999.08	7.30
						11237821.24	3813984.16	7.32
						11237825.75	3813978.00	7.56
						11237860.61	3813946.91	7.56
						11237881.20	3813937.25	7.32
						11237900.52	3813973.37	7.32
						11237925.85	3813991.70	6.71
						11237971.28	3814054.17	7.62
						11237957.78	3814072.04	7.62
						11237921.26	3814097.71	7.62
						11237984.06	3814104.64	11.30
						11238018.30	3814121.86	10.40
						11238056.65	3814140.87	8.84
						11238109.00	3814156.21	8.84

### Geometrie Bruchkanten

Name	M.	ID	Coordinates	
			x (m)	y (m)

# Bericht (Cumltv plus Prj First Floor Rcvrs.cna)

Gruppentabelle Tag und Nacht

Name	Expression	R 7-1A		R 7-2A		R 7-3A		R 7-4A		R 7-5A		R 7-6A		R 7-7A		R 7-8A		R 7-9A	
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night

Source		R 7-1A		R 7-2A		R 7-3A		R 7-4A		R 7-5A		R 7-6A		R 7-7A		R 7-8A		
Name	M. ID	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	
Los Carneros Road								46.7		50.6	-83.8	48.0	-86.7	44.2		18.5		36.1
US 101 SB Onramp																		20.0
US 101 SB Offramp																		-10.3
US 101 SB										36.5		36.7		22.2				11.9
US 101 SB		59.8	-84.5	59.8	-84.4	59.3	-84.7	58.5	-86.2	53.1		49.8		45.1				28.2
US 101 NB		53.9		52.5		52.5		51.6		49.7		47.2		43.0				26.3
US 101 NB										34.4		37.9		21.3				10.8
UPRR		49.5	49.5	49.9	49.9	50.3	50.3	50.8	50.8	51.1	51.1	31.8	31.8	32.7	32.7	31.0	31.0	31.0
UPRR		66.8	66.8	66.8	66.8	66.7	66.7	66.3	66.3	63.1	63.1	59.5	59.5	54.2	54.2	43.0	43.0	43.0

## Schallquellen

### Punktquellen

Name	M.	ID	Result. PWL			Lw / Li		Correction			Sound Reduction		Attenuation	Operating Time			K0
			Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)	Special (min)	

### Linienquellen

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Flächenquellen

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Flächenquellen vertikal

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Schienen

Name	M.	ID	Lm,E		Train Class	Add.Level				Vmax
			Day (dBA)	Night (dBA)		Dfb (dB)	Dbr (dB)	Dbü (dB)	Dra (dB)	
UPRR			85.0	85.0						
UPRR			78.0	78.0						

### Zugklassen

Name	M. ID	Lm,E		Train Class										Add.Level				Vmax	
		Day	Night	Type	p	Number of Trains			v	l	Dfz	Dae	Lm,E,i (dB)		Dfb	Dbr	Dbü		Dra
		(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night	(dB)	(dB)	(dB)		(dB)
UPRR		85.0	85.0																
UPRR		78.0	78.0																

Name	Lm,E		Train Class										
	Day	Night	Type	p	Number of Trains			v	l	Dfz	Dae	Lm,E,i (dB)	
	(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night

### Parkplätze

Name	M. ID	Type	Lwa			Event Data						Penalty Type		Penalty Surface		A
			Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ			Kpa	Type	Kstro	Surface	
			(dBA)	(dBA)	(dBA)				Day	Special	Night	(dB)		(dB)		

### Strassen

Name	M. ID	Lme			Count Data		exact Count Data						Speed Limit		SCS Dist.	Ds (c)
		Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto	Truck		
		(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(km/h)	(km/h)		
Los Carneros Road		70.2	0.0	0.0			3333.0	0.0	0.0	5.0	0.0	0.0	72		RQ 20	
US 101 SB Onramp		66.2	0.0	0.0			1339.0	0.0	0.0	5.0	0.0	0.0	72		RQ 12	
US 101 SB Offramp		61.8	0.0	0.0			190.0	0.0	0.0	5.0	0.0	0.0	100		RQ 12	
US 101 SB		77.0	0.0	0.0			4925.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 SB		77.0	0.0	0.0			4925.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 NB		76.2	0.0	0.0			4099.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 NB		76.2	0.0	0.0			4099.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	

### Ampeln

Name	M. ID	Active			Height	Coordinates		
		Day	Evening	Night	Begin	X	Y	Z
					(m)	(m)	(m)	(m)

### Immissionspunkte

Name	M. ID	Level Lr		Limit. Value		Land Use			Height (m)	Coordinates		
		Day	Night	Day	Night	Type	Auto	Noise Type		X	Y	Z
		(dBA)	(dBA)	(dBA)	(dBA)					(m)	(m)	(m)
R 7-1A		67.8	66.8	0.0	0.0	x	Total	1.50	r	11238158.88	3814274.45	10.07
R 7-2A		67.8	66.9	0.0	0.0	x	Total	1.50	r	11238145.19	3814273.08	10.17
R 7-3A		67.7	66.8	0.0	0.0	x	Total	1.50	r	11238128.68	3814272.48	10.30
R 7-4A		67.2	66.4	0.0	0.0	x	Total	1.50	r	11238111.97	3814270.98	10.41
R 7-5A		64.2	63.4	0.0	0.0	x	Total	1.50	r	11238105.86	3814263.69	10.35
R 7-6A		60.5	59.5	0.0	0.0	x	Total	1.50	r	11238107.53	3814258.72	10.36
R 7-7A		55.4	54.2	0.0	0.0	x	Total	1.50	r	11238109.36	3814250.46	10.35
R 7-8A		44.3	43.3	0.0	0.0	x	Total	1.50	r	11238117.34	3814245.69	10.32
R 7-9A		44.1	43.2	0.0	0.0	x	Total	1.50	r	11238129.68	3814247.19	10.29
R 7-10A		48.3	47.6	0.0	0.0	x	Total	1.50	r	11238139.98	3814238.42	10.29
R 7-11A		48.2	47.5	0.0	0.0	x	Total	1.50	r	11238132.71	3814238.00	10.30
R 7-12A		48.4	47.3	0.0	0.0	x	Total	1.50	r	11238122.29	3814237.03	10.31
R 7-13A		54.6	53.0	0.0	0.0	x	Total	1.50	r	11238115.68	3814231.37	10.33
R 7-14A		53.8	52.2	0.0	0.0	x	Total	1.50	r	11238117.37	3814222.06	10.32
R 7-15A		45.5	44.7	0.0	0.0	x	Total	1.50	r	11238124.18	3814211.84	10.30
R 7-16A		59.3	57.1	0.0	0.0	x	Total	1.50	r	11238167.78	3814224.98	10.17
R 7-17A		53.7	52.8	0.0	0.0	x	Total	1.50	r	11238165.37	3814240.73	10.27
R 7-18A		62.9	60.8	0.0	0.0	x	Total	1.50	r	11238167.76	3814253.05	10.31
R 7-19A		64.6	63.1	0.0	0.0	x	Total	1.50	r	11238163.26	3814267.75	10.15
R 8-1A		66.2	65.3	0.0	0.0	x	Total	1.50	r	11238095.94	3814262.98	10.46
R 8-2A		66.3	65.4	0.0	0.0	x	Total	1.50	r	11238091.05	3814262.56	10.62

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height (m)	Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type		X (m)	Y (m)	Z (m)
			(dBA)	(dBA)	(dBA)	(dBA)							
R 8-3A			66.3	65.4	0.0	0.0		x	Total	1.50	r11238082.91	3814260.93	10.88
R 8-4A			66.7	65.7	0.0	0.0		x	Total	1.50	r11238077.03	3814261.14	11.08
R 8-5A			66.7	65.7	0.0	0.0		x	Total	1.50	r11238070.78	3814259.57	11.26
R 8-6A			66.4	65.3	0.0	0.0		x	Total	1.50	r11238063.82	3814257.53	11.41
R 8-7A			66.9	65.9	0.0	0.0		x	Total	1.50	r11238058.76	3814259.29	11.50
R 8-8A			67.0	66.0	0.0	0.0		x	Total	1.50	r11238051.34	3814258.62	11.64
R 8-9A			67.2	66.1	0.0	0.0		x	Total	1.50	r11238044.92	3814258.04	11.76
R 8-10A			67.2	66.2	0.0	0.0		x	Total	1.50	r11238038.91	3814257.62	11.87
R 8-11A			65.5	64.4	0.0	0.0		x	Total	1.50	r11238035.70	3814252.75	11.93
R 8-12A			57.1	55.3	0.0	0.0		x	Total	1.50	r11238036.20	3814245.83	11.93
R 8-13A			63.0	61.7	0.0	0.0		x	Total	1.50	r11238034.70	3814242.25	11.97
R 8-14A			63.0	61.7	0.0	0.0		x	Total	1.50	r11238034.12	3814238.16	11.97
R 8-15A			46.5	45.5	0.0	0.0		x	Total	1.50	r11238037.20	3814235.58	11.90
R 8-16A			44.8	42.7	0.0	0.0		x	Total	1.50	r11238041.79	3814233.08	11.77
R 8-17A			44.7	42.8	0.0	0.0		x	Total	1.50	r11238050.79	3814234.66	11.55
R 8-18A			44.2	42.3	0.0	0.0		x	Total	1.50	r11238073.05	3814235.66	10.98
R 8-19A			44.5	42.3	0.0	0.0		x	Total	1.50	r11238092.32	3814237.58	10.49
R 8-20A			45.5	42.3	0.0	0.0		x	Total	1.50	r11238097.48	3814238.25	10.35
R 8-21A			45.2	44.4	0.0	0.0		x	Total	1.50	r11238099.57	3814242.92	10.34
R 8-22A			45.4	44.6	0.0	0.0		x	Total	1.50	r11238099.32	3814249.25	10.34
R 8-23A			44.6	44.1	0.0	0.0		x	Total	1.50	r11238100.15	3814252.50	10.34
R 8-24A			62.4	61.2	0.0	0.0		x	Total	1.50	r11238100.82	3814257.51	10.34
R 5-1A			67.1	66.1	0.0	0.0		x	Total	1.50	r11238006.18	3814253.15	12.23
R 5-2A			67.6	66.6	0.0	0.0		x	Total	1.50	r11238001.34	3814253.81	12.28
R 5-3A			67.2	66.1	0.0	0.0		x	Total	1.50	r11237996.01	3814250.31	12.38
R 5-4A			67.4	66.3	0.0	0.0		x	Total	1.50	r11237988.02	3814249.60	12.42
R 5-5A			66.1	64.9	0.0	0.0		x	Total	1.50	r11237984.83	3814247.14	12.42
R 5-6A			67.4	66.3	0.0	0.0		x	Total	1.50	r11237979.50	3814249.06	12.43
R 5-7A			67.1	65.9	0.0	0.0		x	Total	1.50	r11237972.41	3814248.34	12.45
R 5-8A			67.6	66.6	0.0	0.0		x	Total	1.50	r11237966.91	3814250.73	12.41
R 5-9A			67.4	66.4	0.0	0.0		x	Total	1.50	r11237962.02	3814249.08	12.43
R 5-10A			64.5	63.4	0.0	0.0		x	Total	1.50	r11237960.24	3814244.31	12.50
R 5-11A			61.6	60.3	0.0	0.0		x	Total	1.50	r11237961.24	3814232.50	12.50
R 5-12A			60.0	58.6	0.0	0.0		x	Total	1.50	r11237962.10	3814224.53	12.50
R 5-13A			49.0	45.2	0.0	0.0		x	Total	1.50	r11237965.48	3814220.85	12.50
R 5-14A			49.7	44.8	0.0	0.0		x	Total	1.50	r11237969.18	3814220.11	12.53
R 5-15A			46.3	45.3	0.0	0.0		x	Total	1.50	r11237984.40	3814224.30	12.62
R 5-16A			48.2	44.9	0.0	0.0		x	Total	1.50	r11238003.88	3814223.39	12.77
R 5-17A			46.7	45.5	0.0	0.0		x	Total	1.50	r11238008.63	3814224.56	12.77
R 5-18A			63.3	60.7	0.0	0.0		x	Total	1.50	r11238010.32	3814229.42	12.68
R 5-19A			64.0	61.7	0.0	0.0		x	Total	1.50	r11238009.29	3814238.06	12.49
R 5-20A			65.0	63.3	0.0	0.0		x	Total	1.50	r11238008.49	3814249.18	12.26
R4-1A			64.6	62.9	0.0	0.0		x	Total	1.50	r11237949.84	3814242.00	12.50
R4-2A			67.3	66.4	0.0	0.0		x	Total	1.50	r11237947.43	3814247.77	12.52
R4-3A			67.5	66.6	0.0	0.0		x	Total	1.50	r11237941.96	3814248.40	12.58
R4-4A			67.1	66.2	0.0	0.0		x	Total	1.50	r11237937.34	3814245.25	12.62
R4-5A			67.3	66.3	0.0	0.0		x	Total	1.50	r11237929.36	3814244.20	12.71
R4-6A			66.0	65.0	0.0	0.0		x	Total	1.50	r11237924.74	3814241.89	12.75
R4-7A			67.3	66.4	0.0	0.0		x	Total	1.50	r11237921.16	3814243.89	12.79
R4-8A			66.9	65.6	0.0	0.0		x	Total	1.50	r11237913.18	3814243.26	12.87
R4-9A			67.5	66.4	0.0	0.0		x	Total	1.50	r11237907.93	3814245.36	12.93
R4-10A			67.1	66.0	0.0	0.0		x	Total	1.50	r11237903.22	3814243.82	12.98
R4-11A			64.7	62.7	0.0	0.0		x	Total	1.50	r11237901.39	3814239.15	13.00
R4-12A			64.4	62.2	0.0	0.0		x	Total	1.50	r11237901.89	3814232.81	13.00
R4-13A			64.3	61.9	0.0	0.0		x	Total	1.50	r11237902.64	3814226.72	12.98
R4-14A			64.3	61.9	0.0	0.0		x	Total	1.50	r11237903.14	3814220.22	13.03
R4-15A			59.6	46.3	0.0	0.0		x	Total	1.50	r11237905.89	3814215.30	13.05
R4-16A			59.3	46.2	0.0	0.0		x	Total	1.50	r11237910.23	3814214.63	13.00
R4-17A			52.8	45.6	0.0	0.0		x	Total	1.50	r11237915.31	3814218.22	12.88
R4-18A			54.0	45.3	0.0	0.0		x	Total	1.50	r11237923.65	3814218.89	12.75
R4-19A			53.0	45.2	0.0	0.0		x	Total	1.50	r11237931.41	3814219.39	12.64
R4-20A			52.0	44.8	0.0	0.0		x	Total	1.50	r11237938.41	3814220.14	12.55
R4-21A			51.5	44.6	0.0	0.0		x	Total	1.50	r11237944.50	3814217.80	12.50



Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	X (m)	Y (m)	Z (m)	
			(dBA)	(dBA)	(dBA)	(dBA)								
R4-22A			46.6	44.8	0.0	0.0		x	Total	1.50	r11237949.25	3814219.14	12.50	
R4-23A			60.5	58.8	0.0	0.0		x	Total	1.50	r11237951.00	3814224.81	12.50	
R4-24A			62.8	61.0	0.0	0.0		x	Total	1.50	r11237950.00	3814235.23	12.50	
R3-1A			58.2	56.8	0.0	0.0		x	Total	1.50	r11237930.46	3814204.31	13.00	
R3-2A			59.2	57.7	0.0	0.0		x	Total	1.50	r11237924.19	3814204.84	13.04	
R3-3A			62.1	60.6	0.0	0.0		x	Total	1.50	r11237913.90	3814205.68	13.10	
R3-4A			64.0	61.8	0.0	0.0		x	Total	1.50	r11237906.25	3814205.88	13.14	
R3-5A			65.0	62.5	0.0	0.0		x	Total	1.50	r11237903.92	3814198.64	13.08	
R3-6A			64.7	62.1	0.0	0.0		x	Total	1.50	r11237906.41	3814190.27	13.00	
R3-7A			65.1	62.7	0.0	0.0		x	Total	1.50	r11237905.92	3814184.34	13.00	
R3-8A			65.3	63.1	0.0	0.0		x	Total	1.50	r11237905.28	3814175.17	13.00	
R3-9A			65.3	63.0	0.0	0.0		x	Total	1.50	r11237904.78	3814168.33	13.00	
R3-10A			65.2	62.9	0.0	0.0		x	Total	1.50	r11237904.36	3814159.15	13.00	
R3-11A			65.1	62.8	0.0	0.0		x	Total	1.50	r11237903.89	3814152.34	13.00	
R3-12A			65.2	62.9	0.0	0.0		x	Total	1.50	r11237900.93	3814146.17	13.04	
R3-13A			64.8	62.3	0.0	0.0		x	Total	1.50	r11237901.77	3814140.17	13.07	
R3-14A			57.7	43.8	0.0	0.0		x	Total	1.50	r11237904.96	3814138.70	13.07	
R3-15A			55.8	43.8	0.0	0.0		x	Total	1.50	r11237916.26	3814137.67	13.03	
R3-16A			54.4	43.3	0.0	0.0		x	Total	1.50	r11237926.46	3814137.10	13.00	
R3-17A			51.8	50.6	0.0	0.0		x	Total	1.50	r11237930.11	3814142.83	13.00	
R3-18A			51.1	50.4	0.0	0.0		x	Total	1.50	r11237928.78	3814169.17	13.00	
R3-19A			50.5	49.9	0.0	0.0		x	Total	1.50	r11237929.78	3814185.83	13.00	
R3-20A			51.0	50.2	0.0	0.0		x	Total	1.50	r11237932.95	3814200.50	13.00	
R2-1A			61.4	59.9	0.0	0.0		x	Total	1.50	r11237916.87	3814093.05	9.14	
R2-2A			61.2	59.8	0.0	0.0		x	Total	1.50	r11237911.83	3814086.96	9.16	
R2-3A			61.1	59.6	0.0	0.0		x	Total	1.50	r11237907.84	3814085.07	9.15	
R2-4A			60.9	59.5	0.0	0.0		x	Total	1.50	r11237903.85	3814080.45	9.17	
R2-5A			59.2	57.1	0.0	0.0		x	Total	1.50	r11237905.11	3814076.46	9.20	
R2-6A			52.5	43.7	0.0	0.0		x	Total	1.50	r11237911.41	3814071.62	9.05	
R2-7A			54.0	48.2	0.0	0.0		x	Total	1.50	r11237917.71	3814065.53	8.92	
R2-8A			55.1	51.6	0.0	0.0		x	Total	1.50	r11237924.85	3814058.18	8.91	
R2-9A			54.3	50.2	0.0	0.0		x	Total	1.50	r11237931.15	3814054.19	8.92	
R2-10A			51.4	40.5	0.0	0.0		x	Total	1.50	r11237936.41	3814052.93	8.94	
R2-11A			56.6	53.2	0.0	0.0		x	Total	1.50	r11237933.89	3814046.84	8.87	
R2-12A			58.0	55.9	0.0	0.0		x	Total	1.50	r11237929.05	3814041.59	8.79	
R2-13A			59.7	58.1	0.0	0.0		x	Total	1.50	r11237922.96	3814033.40	8.67	
R2-14A			59.9	58.6	0.0	0.0		x	Total	1.50	r11237915.40	3814023.32	8.57	
R2-15A			59.6	58.5	0.0	0.0		x	Total	1.50	r11237910.36	3814016.60	8.56	
R2-16A			56.6	55.6	0.0	0.0		x	Total	1.50	r11237904.69	3814008.41	8.54	
R2-17A			47.8	46.7	0.0	0.0		x	Total	1.50	r11237905.53	3814001.90	8.48	
R2-18A			48.3	45.7	0.0	0.0		x	Total	1.50	r11237908.89	3813998.96	8.43	
R2-19A			50.8	45.9	0.0	0.0		x	Total	1.50	r11237914.35	3813994.34	8.38	
R2-20A			50.0	45.0	0.0	0.0		x	Total	1.50	r11237917.92	3813991.82	8.34	
R2-21A			44.3	44.1	0.0	0.0		x	Total	1.50	r11237925.48	3813995.60	8.25	
R2-22A			44.4	44.2	0.0	0.0		x	Total	1.50	r11237935.78	3814009.04	8.45	
R2-23A			44.2	44.1	0.0	0.0		x	Total	1.50	r11237947.96	3814024.79	8.68	
R2-24A			44.5	44.3	0.0	0.0		x	Total	1.50	r11237960.56	3814040.96	8.92	
R2-25A			53.9	52.9	0.0	0.0		x	Total	1.50	r11237962.45	3814056.29	9.08	
R2-26A			58.2	57.1	0.0	0.0		x	Total	1.50	r11237951.11	3814068.68	9.07	
R2-27A			58.0	56.9	0.0	0.0		x	Total	1.50	r11237956.15	3814064.69	9.08	
R2-28A			58.2	57.2	0.0	0.0		x	Total	1.50	r11237941.24	3814076.04	9.08	
R2-29A			59.5	58.5	0.0	0.0		x	Total	1.50	r11237935.57	3814081.92	9.09	
R2-30A			60.8	59.7	0.0	0.0		x	Total	1.50	r11237927.16	3814088.22	9.09	
Pool Rec 1			59.9	57.8	0.0	0.0		x	Total	1.50	r11237890.45	3814025.86	8.81	
Pool Rec 2			60.2	58.4	0.0	0.0		x	Total	1.50	r11237882.51	3814010.85	8.77	
Pool Rec 3			57.4	56.3	0.0	0.0		x	Total	1.50	r11237901.70	3814017.46	8.64	
Pool Rec 4			60.1	58.3	0.0	0.0		x	Total	1.50	r11237900.64	3814035.98	8.80	
Pool Rec 5			60.3	58.8	0.0	0.0		x	Total	1.50	r11237904.48	3814052.79	8.88	
Pool Rec 6			56.6	52.2	0.0	0.0		x	Total	1.50	r11237887.02	3814002.60	8.75	
R6-1A			54.2	53.6	0.0	0.0		x	Total	1.50	r11238102.76	3814182.07	10.66	
R6-2A			54.8	54.0	0.0	0.0		x	Total	1.50	r11238087.19	3814180.63	10.85	
R6-3A			56.9	56.0	0.0	0.0		x	Total	1.50	r11238054.90	3814177.76	11.10	
R6-4A			57.4	56.2	0.0	0.0		x	Total	1.50	r11238037.24	3814169.05	10.88	

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	X	Y	Z	
			(dBA)	(dBA)	(dBA)	(dBA)								
R6-5A			56.9	55.7	0.0	0.0		x	Total	1.50	r	11238038.29	3814157.89	10.72
R6-6A			45.4	39.8	0.0	0.0		x	Total	1.50	r	11238050.67	3814151.80	10.57
Pool Rec 7			53.6	52.1	0.0	0.0		x	Total	1.50	r	11238056.23	3814218.08	11.20
Pool Rec 8			50.5	49.4	0.0	0.0		x	Total	1.50	r	11238090.15	3814224.92	10.34
Pool Rec 9			48.5	47.4	0.0	0.0		x	Total	1.50	r	11238095.64	3814229.01	10.34
Pool Rec 10			56.6	55.1	0.0	0.0		x	Total	1.50	r	11238104.64	3814233.36	10.34
Pool Rec 11			50.8	48.7	0.0	0.0		x	Total	1.50	r	11238098.44	3814232.67	10.34
Pool Rec 12			50.8	49.9	0.0	0.0		x	Total	1.50	r	11238079.26	3814220.55	10.50
Pool Rec 13			51.2	50.3	0.0	0.0		x	Total	1.50	r	11238079.65	3814215.96	10.57
Pool Rec 14			47.3	45.4	0.0	0.0		x	Total	1.50	r	11238085.08	3814213.94	10.44
Pool Rec 15			46.2	44.5	0.0	0.0		x	Total	1.50	r	11238091.30	3814208.91	10.34
Pool Rec 16			47.1	46.2	0.0	0.0		x	Total	1.50	r	11238105.19	3814209.84	10.34
Pool Rec 17			46.2	45.9	0.0	0.0		x	Total	1.50	r	11238108.37	3814214.20	10.34
Pool Rec 18			51.9	50.6	0.0	0.0		x	Total	1.50	r	11238110.80	3814220.79	10.34
Pool Rec 19			54.5	53.0	0.0	0.0		x	Total	1.50	r	11238106.91	3814228.75	10.34
Pool Rec 20			54.0	52.8	0.0	0.0		x	Total	1.50	r	11237986.96	3814210.37	12.32
Pool Rec 21			59.0	57.3	0.0	0.0		x	Total	1.50	r	11237957.55	3814208.80	12.47
Pool Rec 22			57.1	55.8	0.0	0.0		x	Total	1.50	r	11237953.26	3814188.06	12.45
Pool Rec 23			56.8	55.8	0.0	0.0		x	Total	1.50	r	11237995.10	3814185.06	11.44
Pool Rec 24			57.6	56.5	0.0	0.0		x	Total	1.50	r	11238006.27	3814175.23	11.18
Pool Rec 25			56.3	55.1	0.0	0.0		x	Total	1.50	r	11237988.46	3814166.84	11.21
Pool Rec 26			57.5	55.9	0.0	0.0		x	Total	1.50	r	11237973.91	3814133.63	12.49
Pool Rec 27			58.0	56.2	0.0	0.0		x	Total	1.50	r	11237992.23	3814117.48	12.44
R1-1A			60.2	55.8	0.0	0.0		x	Total	1.50	r	11237833.27	3813996.54	8.83
R1-2A			61.3	57.4	0.0	0.0		x	Total	1.50	r	11237824.45	3813983.73	8.91
R1-3A			58.1	40.2	0.0	0.0		x	Total	1.50	r	11237833.27	3813973.23	9.05
R1-4A			54.7	39.6	0.0	0.0		x	Total	1.50	r	11237867.71	3813948.03	9.00
R1-5A			43.1	42.8	0.0	0.0		x	Total	1.50	r	11237883.04	3813953.70	8.88
R1-6A			59.5	58.5	0.0	0.0		x	Total	1.50	r	11237889.97	3813979.95	8.81
R1-7A			60.3	59.1	0.0	0.0		x	Total	1.50	r	11237880.10	3813982.05	8.82
R1-8A			60.4	59.3	0.0	0.0		x	Total	1.50	r	11237872.75	3813973.02	8.89
R1-9A			60.5	59.5	0.0	0.0		x	Total	1.50	r	11237860.99	3813977.22	8.90
R1-10A			60.3	58.6	0.0	0.0		x	Total	1.50	r	11237843.77	3813990.45	8.88
Pool Rec 28			59.7	58.2	0.0	0.0		x	Total	1.50	r	11238038.23	3814220.11	11.73
Pool Rec 29			59.6	56.3	0.0	0.0		x	Total	1.50	r	11238004.69	3814209.22	12.37
ST_LT1			68.1	67.6	0.0	0.0		x	Total	1.50	r	11238077.99	3814278.44	11.32

### Gebietsausweisungen

Name	M.	ID	Type	Persons
				(1/km <sup>2</sup> )

### Hindernisse

#### Schirme

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height	
			left	right			horz.	vert.	Begin	End
					(m)	(m)	(m)	(m)	(m)	(m)

#### Häuser

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)
			x	0		3.65 r
			x	0		3.65 r
			x	0		6.70 r
			x	0		6.70 r
			x	0		9.75 r
			x	0		9.75 r

Name	M.	ID	RB	Residents	Absorption	Height
						Begin (m)
			x	0		4.60 r
			x	0		6.70 r
			x	0		9.75 r
			x	0		9.75 r
			x	0		4.60 r
			x	0		9.75 r

### Bewuchs

Name	M.	ID	Height
			(m)

### Bebauung

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

## Geometriedaten

### Geometrie Linienquellen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Flächenquellen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Parkplätze

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Straßen

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin	End	x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		
Los Carneros Road			11237697.29	3813908.86	7.62	7.60		
			11237759.07	3813961.83	10.67	10.70		
			11237782.99	3813989.66	10.67	11.00		
			11237808.40	3814029.18	12.50	12.50		
			11237829.81	3814079.44	12.80	14.00		
			11237845.52	3814131.11	14.33	16.00		
			11237849.30	3814230.44	14.94	18.50		
			11237851.61	3814289.45	16.76	21.30		
			11237854.07	3814329.87	18.29	21.50		
			11237857.43	3814385.23	18.29	18.29		
			11237861.66	3814452.97	16.46	16.46		
US 101 SB Onramp			11237862.91	3814329.11	14.33	21.50		
			11237917.30	3814334.68	14.63	19.00		
			11237998.36	3814343.08	14.63	15.80		
			11238188.34	3814363.72	10.36	12.20		
			11238396.35	3814383.05	9.75	10.40		
US 101 SB Offramp			11237577.38	3814297.86	12.19	12.19		
			11237682.81	3814309.20	14.33	14.33		
			11237760.93	3814317.60	14.33	18.00		
			11237844.93	3814327.68	14.00	21.50		
US 101 SB			11237580.17	3814319.88	12.80	12.80		

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin	End	x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		
			11237676.48	3814338.40	12.50	12.50		
			11237752.15	3814353.33	12.19	12.19		
			11237789.19	3814359.46	12.19	12.19		
			11237847.26	3814365.39	12.50	12.50		
US 101 SB			11237865.59	3814369.12	12.50	12.50		
			11237906.40	3814372.39	11.28	11.28		
			11237997.12	3814376.59	10.97	10.97		
			11238183.92	3814379.77	10.97	10.97		
			11238395.93	3814392.44	10.36	10.36		
US 101 NB			11238394.07	3814413.64	9.14	9.14		
			11238181.55	3814403.56	9.75	9.75		
			11237995.91	3814396.84	11.28	11.28		
			11237901.83	3814389.28	10.67	10.67		
			11237866.49	3814386.68	12.50	12.50		
US 101 NB			11237847.87	3814383.91	12.50	12.50		
			11237786.75	3814375.84	12.19	12.19		
			11237748.95	3814369.96	12.19	12.19		
			11237674.19	3814356.52	13.11	13.11		
			11237577.59	3814337.20	12.50	12.50		

### Geometrie Schienen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)
UPRR	12.50	a	11237570.03	3814262.43	12.50	1.88
			11237838.85	3814285.11	12.50	11.38
UPRR	12.50	a	11237861.86	3814287.47	12.50	11.58
			11238395.28	3814332.85	8.53	0.89

### Geometrie Schirme

Name	M.	ID	Absorption		Z-Ext. (m)	Cantilever		Height		Coordinates			
			left	right		horz. (m)	vert. (m)	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)
										11237880.37	3814214.17	14.90	13.10
										11237881.18	3814251.51	14.90	13.10
										11237882.02	3814269.67	13.70	11.90
										11237895.41	3814270.84	13.40	11.60
										11237911.06	3814272.16	12.80	11.00
										11237945.61	3814275.47	12.80	11.00
										11237961.46	3814277.18	12.50	10.70
										11238006.41	3814281.33	12.30	10.50
										11238074.37	3814287.71	11.90	10.10
										11238128.78	3814292.54	10.95	9.15
										11238169.64	3814296.43	10.34	8.54
										11238187.40	3814297.69	10.95	9.15

### Geometrie Häuser

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates				
							x	y	z	Ground	
							(m)	(m)	(m)	(m)	
						3.65	r	11238188.92	3814297.40	12.80	9.15
								11238194.21	3814297.14	12.80	9.21
								11238193.42	3814235.75	12.80	8.41
								11238220.94	3814234.69	12.80	8.50
								11238220.67	3814227.01	12.80	8.34
								11238187.86	3814229.66	12.80	8.27
								11238189.18	3814297.40	12.80	9.15
						3.65	r	11238198.18	3814176.74	11.11	7.46
								11238200.30	3814224.10	11.11	8.31
								11238237.34	3814223.31	11.11	8.24
								11238236.55	3814196.05	11.11	7.69

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238223.32	3814196.32	11.11	7.71
							11238222.79	3814175.68	11.11	7.29
			x	0		6.70	11237903.99	3814215.91	18.27	11.57
							11237901.32	3814243.25	18.27	11.50
							11237905.31	3814243.57	18.27	11.46
							11237905.26	3814244.72	18.27	11.46
							11237909.41	3814244.98	18.27	11.42
							11237909.83	3814239.79	18.27	11.40
							11237911.82	3814239.94	18.27	11.38
							11237911.77	3814242.25	18.27	11.39
							11237923.27	3814243.15	18.27	11.27
							11237923.43	3814240.99	18.27	11.26
							11237927.52	3814241.41	18.27	11.22
							11237927.31	3814243.51	18.27	11.23
							11237939.07	3814244.68	18.27	11.11
							11237939.22	3814242.53	18.27	11.10
							11237941.17	3814242.68	18.27	11.08
							11237940.69	3814247.83	18.27	11.10
							11237944.63	3814248.15	18.27	11.05
							11237944.74	3814246.83	18.27	11.05
							11237948.73	3814247.15	18.27	11.01
							11237951.25	3814219.58	18.27	11.00
							11237947.26	3814219.27	18.27	11.00
							11237947.34	3814218.14	18.27	11.00
							11237943.38	3814217.89	18.27	11.00
							11237942.88	3814222.85	18.27	11.01
							11237941.01	3814222.81	18.27	11.03
							11237941.13	3814220.39	18.27	11.03
							11237913.61	3814218.28	18.27	11.40
							11237913.48	3814220.39	18.27	11.37
							11237911.36	3814220.19	18.27	11.41
							11237911.89	3814215.23	18.27	11.47
							11237907.92	3814214.84	18.27	11.53
							11237907.79	3814215.89	18.27	11.52
							11237903.82	3814215.50	18.27	11.57
			x	0		6.70	11237960.36	3814248.60	17.64	10.94
							11237964.18	3814248.92	17.64	10.94
							11237964.17	3814249.98	17.64	10.92
							11237968.27	3814250.40	17.64	10.92
							11237968.69	3814245.25	17.64	10.97
							11237970.58	3814245.46	17.64	10.96
							11237970.37	3814247.66	17.64	10.96
							11237982.13	3814248.71	17.64	10.93
							11237982.45	3814246.30	17.64	10.93
							11237986.44	3814246.72	17.64	10.93
							11237986.23	3814249.03	17.64	10.91
							11237997.99	3814249.98	17.64	10.87
							11237998.10	3814247.77	17.64	10.91
							11237999.99	3814247.98	17.64	10.88
							11237999.57	3814253.13	17.64	10.80
							11238004.30	3814253.65	17.64	10.75
							11238004.33	3814252.58	17.64	10.75
							11238007.69	3814252.90	17.64	10.71
							11238010.07	3814225.08	17.64	11.27
							11238006.19	3814224.87	17.64	11.24
							11238006.29	3814223.72	17.64	11.26
							11238002.14	3814223.44	17.64	11.26
							11238001.77	3814228.23	17.64	11.21
							11237999.88	3814228.13	17.64	11.20
							11238000.02	3814226.06	17.64	11.22
							11237972.62	3814223.61	17.64	11.03
							11237972.36	3814225.92	17.64	11.01
							11237970.47	3814225.82	17.64	10.99

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237971.00	3814220.46	17.64	11.05
							11237967.11	3814219.93	17.64	11.02
							11237966.80	3814221.40	17.64	11.00
							11237962.80	3814220.88	17.64	11.00
			x	0		9.75	11238034.68	3814235.95	20.20	10.45
							11238034.15	3814241.31	20.20	10.48
							11238035.41	3814241.31	20.20	10.45
							11238034.89	3814244.67	20.20	10.46
							11238036.99	3814244.88	20.20	10.42
							11238036.78	3814247.40	20.20	10.42
							11238034.26	3814247.29	20.20	10.46
							11238034.26	3814248.66	20.20	10.45
							11238036.57	3814248.97	20.20	10.42
							11238036.04	3814253.91	20.20	10.43
							11238037.51	3814254.12	20.20	10.40
							11238037.30	3814256.75	20.20	10.40
							11238046.44	3814257.59	20.20	10.23
							11238046.65	3814255.28	20.20	10.23
							11238048.96	3814255.49	20.20	10.18
							11238048.86	3814257.80	20.20	10.18
							11238060.52	3814258.85	20.20	9.97
							11238060.83	3814256.64	20.20	9.96
							11238065.56	3814257.06	20.20	9.87
							11238065.45	3814257.80	20.20	9.88
							11238069.44	3814258.11	20.20	9.78
							11238069.23	3814258.85	20.20	9.79
							11238072.65	3814259.11	20.20	9.71
							11238072.49	3814260.21	20.20	9.72
							11238081.66	3814261.05	20.20	9.43
							11238081.66	3814260.05	20.20	9.42
							11238084.75	3814260.46	20.20	9.32
							11238085.16	3814256.30	20.20	9.30
							11238090.42	3814257.05	20.20	9.13
							11238089.92	3814261.88	20.20	9.16
							11238096.58	3814262.38	20.20	8.94
							11238096.75	3814259.05	20.20	8.93
							11238100.34	3814259.38	20.20	8.84
							11238101.09	3814253.71	20.20	8.84
							11238099.67	3814253.54	20.20	8.84
							11238099.92	3814250.54	20.20	8.84
							11238098.84	3814250.54	20.20	8.84
							11238099.00	3814247.71	20.20	8.84
							11238101.42	3814247.96	20.20	8.84
							11238101.25	3814246.21	20.20	8.84
							11238098.84	3814246.04	20.20	8.84
							11238099.25	3814241.12	20.20	8.84
							11238098.42	3814241.12	20.20	8.84
							11238098.50	3814238.70	20.20	8.84
							11238090.33	3814237.95	20.20	9.05
							11238090.33	3814238.70	20.20	9.05
							11238087.16	3814238.54	20.20	9.13
							11238087.33	3814237.37	20.20	9.12
							11238078.16	3814236.45	20.20	9.35
							11238077.99	3814237.37	20.20	9.36
							11238074.66	3814237.12	20.20	9.45
							11238074.74	3814236.04	20.20	9.44
							11238069.91	3814235.79	20.20	9.56
							11238069.82	3814236.79	20.20	9.57
							11238063.74	3814236.12	20.20	9.73
							11238063.74	3814235.16	20.20	9.72
							11238054.52	3814234.22	20.20	9.95
							11238054.48	3814235.37	20.20	9.96
							11238045.56	3814234.62	20.20	10.19

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238045.56	3814233.62	20.20	10.18
							11238038.48	3814233.12	20.20	10.36
							11238038.14	3814236.12	20.20	10.38
			x	0		9.75	11238106.23	3814266.67	18.61	8.86
							11238109.59	3814266.88	18.61	8.88
							11238109.38	3814269.82	18.61	8.89
							11238116.31	3814270.66	18.61	8.90
							11238117.26	3814265.51	18.61	8.88
							11238122.10	3814265.85	18.61	8.84
							11238121.84	3814270.15	18.61	8.85
							11238124.75	3814270.28	18.61	8.83
							11238124.82	3814271.34	18.61	8.83
							11238134.15	3814272.07	18.61	8.76
							11238134.21	3814270.94	18.61	8.75
							11238137.45	3814271.34	18.61	8.73
							11238137.19	3814272.40	18.61	8.73
							11238141.94	3814272.82	18.61	8.69
							11238141.94	3814271.82	18.61	8.69
							11238148.11	3814272.57	18.61	8.64
							11238148.28	3814273.48	18.61	8.64
							11238152.86	3814273.98	18.61	8.61
							11238152.95	3814273.07	18.61	8.60
							11238160.89	3814273.86	18.61	8.58
							11238161.15	3814270.95	18.61	8.61
							11238162.54	3814271.08	18.61	8.61
							11238162.81	3814266.25	18.61	8.66
							11238165.25	3814266.45	18.61	8.66
							11238165.32	3814264.80	18.61	8.68
							11238162.87	3814264.66	18.61	8.68
							11238163.14	3814262.15	18.61	8.70
							11238166.25	3814262.55	18.61	8.71
							11238166.31	3814260.89	18.61	8.72
							11238164.13	3814260.69	18.61	8.72
							11238164.33	3814258.31	18.61	8.75
							11238166.64	3814258.51	18.61	8.75
							11238167.64	3814247.33	18.61	8.82
							11238167.64	3814246.00	18.61	8.81
							11238163.72	3814245.67	18.61	8.81
							11238163.89	3814241.75	18.61	8.78
							11238164.78	3814241.78	18.61	8.78
							11238165.04	3814238.54	18.61	8.76
							11238166.23	3814238.71	18.61	8.76
							11238166.30	3814237.48	18.61	8.75
							11238163.76	3814237.28	18.61	8.75
							11238164.02	3814234.21	18.61	8.72
							11238166.47	3814234.47	18.61	8.72
							11238166.66	3814232.95	18.61	8.71
							11238163.36	3814232.75	18.61	8.71
							11238163.42	3814229.77	18.61	8.69
							11238164.61	3814229.77	18.61	8.69
							11238164.75	3814227.19	18.61	8.67
							11238167.00	3814227.39	18.61	8.67
							11238167.59	3814220.78	18.61	8.66
							11238163.95	3814220.38	18.61	8.62
							11238164.27	3814217.23	18.61	8.59
							11238156.28	3814216.81	18.61	8.60
							11238156.18	3814215.44	18.61	8.59
							11238151.56	3814214.92	18.61	8.62
							11238151.45	3814216.18	18.61	8.62
							11238145.15	3814215.65	18.61	8.65
							11238145.25	3814214.60	18.61	8.65
							11238136.01	3814213.87	18.61	8.71
							11238136.01	3814214.60	18.61	8.71

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
						11238132.86	3814214.50	18.61	8.73	
						11238132.54	3814218.38	18.61	8.73	
						11238126.87	3814218.07	18.61	8.77	
						11238127.40	3814213.03	18.61	8.78	
						11238120.78	3814212.50	18.61	8.82	
						11238120.58	3814215.48	18.61	8.81	
						11238117.10	3814215.13	18.61	8.84	
						11238116.49	3814220.84	18.61	8.83	
						11238117.73	3814220.90	18.61	8.82	
						11238117.52	3814223.95	18.61	8.82	
						11238118.78	3814224.05	18.61	8.81	
						11238118.50	3814226.50	18.61	8.81	
						11238116.47	3814226.37	18.61	8.82	
						11238116.05	3814232.93	18.61	8.82	
						11238119.15	3814233.30	18.61	8.80	
						11238118.89	3814236.34	18.61	8.81	
						11238126.87	3814236.97	18.61	8.80	
						11238127.06	3814235.74	18.61	8.79	
						11238130.34	3814236.03	18.61	8.79	
						11238130.23	3814237.29	18.61	8.80	
						11238135.07	3814237.81	18.61	8.79	
						11238135.16	3814236.77	18.61	8.79	
						11238137.87	3814236.95	18.61	8.78	
						11238137.94	3814238.01	18.61	8.79	
						11238142.84	3814238.34	18.61	8.79	
						11238142.93	3814236.78	18.61	8.77	
						11238145.70	3814237.04	18.61	8.77	
						11238145.57	3814238.45	18.61	8.78	
						11238151.09	3814238.63	18.61	8.78	
						11238151.37	3814235.03	18.61	8.75	
						11238154.39	3814235.19	18.61	8.75	
						11238153.66	3814241.91	18.61	8.80	
						11238151.03	3814241.70	18.61	8.80	
						11238150.79	3814244.75	18.61	8.82	
						11238152.42	3814244.85	18.61	8.82	
						11238152.29	3814247.48	18.61	8.84	
						11238154.60	3814247.79	18.61	8.84	
						11238153.93	3814254.00	18.61	8.77	
						11238151.03	3814253.68	18.61	8.77	
						11238151.24	3814250.00	18.61	8.81	
						11238146.30	3814249.58	18.61	8.80	
						11238146.24	3814250.82	18.61	8.79	
						11238142.93	3814250.81	18.61	8.78	
						11238143.05	3814248.84	18.61	8.80	
						11238138.53	3814248.42	18.61	8.80	
						11238138.53	3814249.37	18.61	8.79	
						11238131.60	3814248.74	18.61	8.78	
						11238131.49	3814247.79	18.61	8.79	
						11238122.57	3814247.06	18.61	8.78	
						11238122.57	3814247.79	18.61	8.78	
						11238119.62	3814247.69	18.61	8.81	
						11238119.83	3814246.43	18.61	8.80	
						11238111.96	3814245.80	18.61	8.85	
						11238111.75	3814248.53	18.61	8.86	
						11238110.17	3814248.63	18.61	8.85	
						11238109.75	3814253.57	18.61	8.86	
						11238107.44	3814253.47	18.61	8.85	
						11238107.23	3814254.94	18.61	8.85	
						11238109.65	3814255.15	18.61	8.86	
						11238109.44	3814257.67	18.61	8.87	
						11238108.17	3814257.77	18.61	8.86	
						11238108.17	3814260.61	18.61	8.86	
						11238106.70	3814260.61	18.61	8.85	



Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates				
							x	y	z	Ground	
							(m)	(m)	(m)	(m)	
			x	0		4.60	r	11238097.36	3814231.78	13.44	8.84
								11238106.36	3814232.57	13.44	8.84
								11238107.15	3814224.83	13.44	8.84
								11238110.06	3814225.16	13.44	8.84
								11238110.59	3814216.69	13.44	8.84
								11238107.68	3814216.44	13.44	8.84
								11238108.21	3814210.54	13.44	8.84
								11238104.31	3814210.14	13.44	8.84
								11238104.24	3814211.66	13.44	8.84
								11238100.20	3814211.26	13.44	8.84
								11238099.94	3814213.25	13.44	8.84
								11238096.56	3814212.92	13.44	8.84
								11238097.03	3814209.74	13.44	8.84
								11238088.95	3814208.88	13.44	8.87
								11238088.23	3814214.70	13.44	8.86
								11238080.15	3814214.17	13.44	9.07
								11238079.56	3814222.05	13.44	8.98
								11238098.22	3814223.90	13.44	8.84
			x	0		6.70	r	11237905.46	3814205.38	18.34	11.64
								11237914.47	3814205.18	18.34	11.59
								11237914.43	3814204.36	18.34	11.58
								11237923.12	3814203.86	18.34	11.53
								11237923.13	3814204.51	18.34	11.54
								11237932.31	3814203.84	18.34	11.50
								11237932.04	3814199.06	18.34	11.50
								11237932.94	3814199.01	18.34	11.50
								11237932.73	3814195.02	18.34	11.50
								11237927.74	3814195.33	18.34	11.50
								11237927.74	3814193.13	18.34	11.50
								11237929.89	3814192.97	18.34	11.50
								11237929.06	3814180.72	18.34	11.50
								11237926.72	3814181.05	18.34	11.50
								11237926.64	3814176.71	18.34	11.50
								11237928.76	3814176.52	18.34	11.50
								11237927.92	3814163.93	18.34	11.50
								11237925.76	3814164.09	18.34	11.50
								11237925.76	3814160.17	18.34	11.50
								11237927.84	3814159.92	18.34	11.50
								11237927.34	3814148.00	18.34	11.50
								11237925.09	3814148.17	18.34	11.50
								11237924.92	3814146.00	18.34	11.50
								11237929.92	3814145.67	18.34	11.50
								11237929.63	3814141.37	18.34	11.50
								11237928.38	3814141.37	18.34	11.50
								11237928.34	3814137.33	18.34	11.50
								11237921.63	3814137.66	18.34	11.51
								11237921.59	3814136.87	18.34	11.52
								11237919.59	3814137.00	18.34	11.52
								11237919.59	3814137.96	18.34	11.52
								11237910.66	3814138.46	18.34	11.55
								11237910.54	3814137.66	18.34	11.55
								11237908.40	3814137.96	18.34	11.56
								11237908.44	3814138.69	18.34	11.55
								11237901.91	3814139.04	18.34	11.58
								11237902.12	3814143.33	18.34	11.55
								11237901.04	3814143.33	18.34	11.56
								11237901.24	3814147.42	18.34	11.53
								11237906.23	3814147.16	18.34	11.52
								11237906.41	3814149.29	18.34	11.50
								11237904.08	3814149.46	18.34	11.51
								11237904.83	3814161.72	18.34	11.50
								11237907.25	3814161.55	18.34	11.50
								11237907.41	3814165.64	18.34	11.50

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237905.16	3814165.89	18.34	11.50
							11237906.00	3814177.97	18.34	11.50
							11237907.83	3814177.81	18.34	11.50
							11237908.08	3814182.06	18.34	11.50
							11237906.08	3814182.48	18.34	11.50
							11237906.87	3814194.52	18.34	11.52
							11237909.12	3814194.26	18.34	11.50
							11237909.19	3814196.57	18.34	11.53
							11237904.19	3814196.84	18.34	11.55
							11237904.45	3814201.12	18.34	11.60
							11237905.35	3814201.07	18.34	11.60
			x	0		9.75	r 11238039.03	3814154.34	18.89	9.14
							11238038.54	3814160.90	18.89	9.27
							11238040.69	3814161.10	18.89	9.28
							11238040.44	3814163.68	18.89	9.32
							11238039.44	3814163.68	18.89	9.31
							11238039.28	3814166.27	18.89	9.35
							11238037.86	3814166.27	18.89	9.34
							11238037.61	3814172.19	18.89	9.43
							11238040.94	3814172.44	18.89	9.45
							11238040.69	3814175.94	18.89	9.50
							11238047.20	3814176.27	18.89	9.55
							11238047.61	3814171.52	18.89	9.48
							11238052.53	3814171.94	18.89	9.48
							11238052.12	3814176.94	18.89	9.58
							11238057.20	3814177.35	18.89	9.59
							11238057.28	3814176.52	18.89	9.57
							11238063.29	3814176.94	18.89	9.55
							11238063.20	3814178.02	18.89	9.57
							11238067.87	3814178.52	18.89	9.55
							11238068.29	3814176.06	18.89	9.50
							11238073.42	3814176.44	18.89	9.48
							11238073.29	3814177.35	18.89	9.50
							11238077.13	3814177.77	18.89	9.45
							11238077.09	3814178.52	18.89	9.46
							11238080.05	3814178.77	18.89	9.42
							11238079.96	3814179.77	18.89	9.43
							11238089.63	3814180.36	18.89	9.31
							11238089.80	3814179.48	18.89	9.30
							11238092.47	3814179.69	18.89	9.27
							11238092.89	3814176.02	18.89	9.23
							11238098.22	3814176.52	18.89	9.16
							11238097.64	3814181.11	18.89	9.21
							11238104.47	3814181.69	18.89	9.13
							11238104.61	3814178.58	18.89	9.10
							11238108.51	3814178.91	18.89	9.06
							11238108.97	3814173.35	18.89	9.01
							11238107.44	3814173.24	18.89	9.01
							11238108.78	3814158.07	18.89	8.86
							11238042.87	3814151.71	18.89	9.08
							11238042.54	3814154.56	18.89	9.14
			x	0		9.75	r 11237904.07	3814078.49	17.44	7.69
							11237909.95	3814086.21	17.44	7.65
							11237912.05	3814084.16	17.44	7.65
							11237913.15	3814085.47	17.44	7.65
							11237912.42	3814086.21	17.44	7.67
							11237917.51	3814092.72	17.44	7.64
							11237924.66	3814086.79	17.44	7.57
							11237926.07	3814088.52	17.44	7.59
							11237928.99	3814085.74	17.44	7.58
							11237929.44	3814086.26	17.44	7.59
							11237937.05	3814079.91	17.44	7.58
							11237936.21	3814078.86	17.44	7.57

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
						11237938.31	3814077.12	17.44	7.57	
						11237938.68	3814077.60	17.44	7.58	
						11237942.20	3814074.81	17.44	7.57	
						11237941.25	3814073.66	17.44	7.56	
						11237946.14	3814069.72	17.44	7.56	
						11237946.77	3814070.35	17.44	7.57	
						11237948.66	3814068.56	17.44	7.56	
						11237949.60	3814069.46	17.44	7.57	
						11237957.06	3814063.26	17.44	7.58	
						11237956.22	3814062.21	17.44	7.58	
						11237958.47	3814060.48	17.44	7.58	
						11237955.38	3814056.64	17.44	7.55	
						11237956.54	3814055.59	17.44	7.55	
						11237958.64	3814057.90	17.44	7.57	
						11237965.99	3814052.23	17.44	7.57	
						11237964.24	3814049.73	17.44	7.54	
						11237965.57	3814048.56	17.44	7.53	
						11237920.72	3813989.94	17.44	6.81	
						11237912.53	3813997.09	17.44	6.88	
						11237914.31	3813999.19	17.44	6.88	
						11237913.05	3814000.03	17.44	6.90	
						11237911.37	3813997.82	17.44	6.90	
						11237903.81	3814004.23	17.44	7.02	
						11237905.59	3814006.44	17.44	7.02	
						11237904.33	3814007.17	17.44	7.04	
						11237907.69	3814011.16	17.44	7.03	
						11237909.27	3814009.80	17.44	7.01	
						11237910.95	3814012.00	17.44	7.01	
						11237910.00	3814012.74	17.44	7.03	
						11237911.90	3814014.94	17.44	7.03	
						11237910.85	3814015.89	17.44	7.04	
						11237917.15	3814023.66	17.44	7.06	
						11237918.30	3814022.82	17.44	7.04	
						11237921.67	3814027.13	17.44	7.09	
						11237920.51	3814028.08	17.44	7.10	
						11237926.39	3814036.27	17.44	7.22	
						11237927.55	3814035.32	17.44	7.21	
						11237930.70	3814039.32	17.44	7.27	
						11237929.33	3814040.58	17.44	7.28	
						11237932.51	3814044.55	17.44	7.34	
						11237933.24	3814044.08	17.44	7.34	
						11237935.69	3814047.39	17.44	7.39	
						11237937.14	3814045.67	17.44	7.37	
						11237938.00	3814046.60	17.44	7.39	
						11237938.67	3814046.10	17.44	7.38	
						11237941.09	3814049.27	17.44	7.43	
						11237942.17	3814049.35	17.44	7.44	
						11237941.92	3814050.18	17.44	7.44	
						11237942.09	3814051.85	17.44	7.46	
						11237939.17	3814053.60	17.44	7.46	
						11237938.42	3814053.18	17.44	7.46	
						11237935.42	3814055.77	17.44	7.45	
						11237934.75	3814055.02	17.44	7.44	
						11237934.08	3814055.52	17.44	7.44	
						11237932.58	3814053.52	17.44	7.43	
						11237929.00	3814056.35	17.44	7.42	
						11237929.75	3814057.27	17.44	7.43	
						11237927.91	3814058.69	17.44	7.43	
						11237927.16	3814057.35	17.44	7.42	
						11237919.33	3814063.94	17.44	7.42	
						11237920.08	3814064.77	17.44	7.43	
						11237916.03	3814068.10	17.44	7.43	
						11237915.17	3814067.34	17.44	7.44	

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x (m)	y (m)	z (m)	Ground (m)
							11237914.16	3814068.44	17.44	7.47
							11237915.82	3814070.11	17.44	7.45
							11237914.10	3814071.65	17.44	7.50
							11237913.49	3814070.86	17.44	7.50
							11237909.55	3814074.43	17.44	7.61
							11237909.97	3814074.85	17.44	7.60
							11237907.93	3814076.62	17.44	7.66
							11237906.24	3814074.64	17.44	7.67
							11237905.33	3814075.52	17.44	7.69
							11237906.14	3814076.48	17.44	7.69
			x	0		4.60 r	11237881.78	3814008.79	11.88	7.28
							11237891.07	3814025.96	11.88	7.31
							11237893.17	3814024.65	11.88	7.28
							11237893.49	3814025.39	11.88	7.28
							11237895.54	3814024.13	11.88	7.25
							11237895.22	3814023.60	11.88	7.25
							11237897.43	3814022.39	11.88	7.22
							11237899.74	3814021.08	11.88	7.19
							11237895.70	3814013.52	11.88	7.17
							11237898.69	3814011.78	11.88	7.13
							11237895.49	3814005.48	11.88	7.11
							11237897.74	3814004.22	11.88	7.08
							11237895.07	3813999.55	11.88	7.15
							11237893.17	3814000.70	11.88	7.17
							11237892.65	3813999.81	11.88	7.18
							11237891.39	3814000.91	11.88	7.19
							11237890.50	3813999.28	11.88	7.23
							11237887.71	3814001.23	11.88	7.25
							11237888.34	3814002.59	11.88	7.23
							11237886.92	3814003.38	11.88	7.24
							11237887.34	3814004.11	11.88	7.23
							11237883.93	3814006.11	11.88	7.27
							11237884.56	3814007.11	11.88	7.25
			x	0		9.75 r	11237824.66	3813980.79	17.23	7.48
							11237875.27	3813944.25	17.23	7.41
							11237897.74	3813973.02	17.23	7.33
							11237883.25	3813983.52	17.23	7.31
							11237871.49	3813968.61	17.23	7.42
							11237835.16	3813995.91	17.23	7.33

### Geometrie Höhenlinien

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11237871.28	3814268.78	13.40
						11237882.03	3814269.78	11.90
						11237895.54	3814270.95	11.60
						11237910.79	3814272.20	11.00
						11237946.38	3814275.70	11.00
						11237960.87	3814277.35	10.70
						11238006.05	3814281.45	10.50
						11238074.42	3814287.97	10.10
						11238128.34	3814292.90	9.15
						11238169.52	3814296.90	8.54
						11238187.85	3814298.40	9.15
						11238186.80	3814204.20	7.93
						11237865.11	3814280.70	12.20
						11237919.09	3814284.91	11.00
						11238073.25	3814299.82	11.00
						11238250.89	3814315.71	10.10
						11237881.92	3814269.56	11.90
						11237880.84	3814250.05	13.10

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11237880.31	3814214.13	13.10
						11237879.47	3814200.69	13.40
						11237878.61	3814185.47	13.70
						11237876.44	3814158.13	12.80
						11237869.11	3814116.46	13.40
						11237862.61	3814092.28	14.90
						11237859.87	3814081.36	14.00
						11237854.83	3814065.92	13.70
						11237846.22	3814043.24	12.30
						11237832.15	3814014.88	11.90
						11237818.29	3813991.15	10.80
						11237902.99	3814212.44	11.60
						11237901.21	3814224.35	11.50
						11237900.28	3814243.40	11.50
						11237902.00	3814246.57	11.50
						11237950.17	3814249.75	11.00
						11237953.34	3814243.13	11.00
						11237958.77	3814244.06	11.00
						11237960.35	3814251.21	10.90
						11237989.86	3814253.46	10.90
						11238007.73	3814255.18	10.70
						11238009.71	3814251.60	10.70
						11238012.09	3814224.48	11.30
						11238004.75	3814221.37	11.30
						11237962.54	3814218.13	11.00
						11237942.76	3814216.34	11.00
						11237905.17	3814212.56	11.60
						11238034.49	3814231.70	10.40
						11238032.99	3814240.04	10.50
						11238032.90	3814255.29	10.40
						11238037.07	3814258.71	10.40
						11238071.50	3814261.46	9.76
						11238099.75	3814264.05	8.84
						11238103.51	3814259.21	8.84
						11238102.92	3814241.21	8.84
						11238097.59	3814236.29	8.84
						11238036.24	3814231.12	10.40
						11238112.56	3814239.62	8.84
						11238108.46	3814246.89	8.84
						11238105.41	3814257.35	8.84
						11238103.30	3814270.71	8.84
						11238114.15	3814274.15	8.93
						11238162.18	3814277.99	8.54
						11238169.19	3814272.83	8.54
						11238172.37	3814250.73	8.84
						11238172.50	3814218.98	8.84
						11238164.30	3814210.64	8.54
						11238121.56	3814208.39	8.84
						11238114.94	3814217.25	8.84
						11238112.16	3814239.35	8.84
						11238112.72	3814207.99	8.84
						11238091.71	3814201.80	8.84
						11238077.95	3814210.62	9.15
						11238074.07	3814220.91	8.99
						11238085.10	3814231.21	8.84
						11238099.06	3814234.46	8.84
						11238035.65	3814154.34	9.15
						11238032.74	3814175.25	9.45
						11238059.21	3814185.97	9.76
						11238107.77	3814188.61	9.15
						11238122.06	3814164.66	9.15
						11238120.07	3814155.53	9.15
						11237903.76	3814209.71	11.70

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11237902.44	3814191.06	11.50
						11237901.25	3814153.21	11.50
						11237899.92	3814136.14	11.60
						11237930.89	3814133.89	11.50
						11237935.25	3814206.67	11.50
						11237933.93	3814132.97	11.50
						11237963.18	3814143.95	11.00
						11237993.61	3814171.60	9.45
						11238023.78	3814173.72	9.76
						11237898.20	3814133.45	11.00
						11237897.36	3814121.11	8.54
						11237893.03	3814100.94	7.62
						11237880.03	3814067.93	7.62
						11237861.35	3814016.74	7.62
						11237844.60	3814008.66	7.32
						11237824.93	3813996.32	7.32
						11237916.25	3814099.08	7.93
						11237901.43	3814082.14	7.62
						11237900.90	3814072.35	7.74
						11237912.78	3814050.56	7.32
						11237892.08	3814029.08	7.32
						11237877.91	3814010.91	7.32
						11237871.24	3813998.24	7.26
						11237854.43	3813994.25	7.32
						11237831.96	3813999.08	7.30
						11237821.24	3813984.16	7.32
						11237825.75	3813978.00	7.56
						11237860.61	3813946.91	7.56
						11237881.20	3813937.25	7.32
						11237900.52	3813973.37	7.32
						11237925.85	3813991.70	6.71
						11237971.28	3814054.17	7.62
						11237957.78	3814072.04	7.62
						11237921.26	3814097.71	7.62
						11237984.06	3814104.64	11.30
						11238018.30	3814121.86	10.40
						11238056.65	3814140.87	8.84
						11238109.00	3814156.21	8.84

### Geometrie Bruchkanten

Name	M.	ID	Coordinates	
			x (m)	y (m)

# Bericht (Cumltv plus Prj 2nd Floor Rcvrs.cna)

Gruppentabelle Tag und Nacht

Name	Expression	R 7-1B		R 7-2B		R 7-3B		R 7-4B		R 7-5B		R 7-6B		R 7-7B		R 7-8B		R 7-9B	
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night

Source		R 7-1B		R 7-2B		R 7-3B		R 7-4B		R 7-5B		R 7-6B		R 7-7B		R 7-8B	
Name	M. ID	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Los Carneros Road																17.1	34.8
US 101 SB Onramp								45.5		49.4	-83.8	46.8	-86.7	43.0			18.9
US 101 SB Offramp																	-11.3
US 101 SB												33.2		34.5		19.8	9.7
US 101 SB		57.7	-84.5	57.7	-84.4	57.2	-84.7	55.7	-87.5	50.7		47.7		43.0		26.1	
US 101 NB		53.9		54.2		53.8		54.0		50.2		47.3		43.0		26.3	
US 101 NB										36.1		38.4		21.3		10.8	
UPRR		49.5	49.5	49.9	49.9	50.3	50.3	50.8	50.8	51.1	51.1	31.8	31.8	32.7	32.7	31.0	31.0
UPRR		66.8	66.8	66.8	66.8	66.7	66.7	66.3	66.3	63.1	63.1	59.5	59.5	54.2	54.2	43.0	43.0

## Schallquellen

### Punktquellen

Name	M.	ID	Result. PWL			Lw / Li		Correction			Sound Reduction		Attenuation	Operating Time			K0
			Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)	Special (min)	

### Linienquellen

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Flächenquellen

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Flächenquellen vertikal

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Schienen

Name	M.	ID	Lm,E		Train Class	Add.Level				Vmax
			Day (dBA)	Night (dBA)		Dfb (dB)	Dbr (dB)	Dbü (dB)	Dra (dB)	
UPRR			85.0	85.0						
UPRR			78.0	78.0						

### Zugklassen

Name	M. ID	Lm,E		Train Class										Add.Level				Vmax	
		Day	Night	Type	p	Number of Trains			v	l	Dfz	Dae	Lm,E,i (dB)		Dfb	Dbr	Dbü		Dra
		(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night	(dB)	(dB)	(dB)		(dB)
UPRR		85.0	85.0																
UPRR		78.0	78.0																

Name	Lm,E		Train Class										
	Day	Night	Type	p	Number of Trains			v	l	Dfz	Dae	Lm,E,i (dB)	
	(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night

### Parkplätze

Name	M. ID	Type	Lwa			Event Data						Penalty Type		Penalty Surface		A
			Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ			Kpa	Type	Kstro	Surface	
			(dBA)	(dBA)	(dBA)				Day	Special	Night	(dB)		(dB)		

### Strassen

Name	M. ID	Lme			Count Data		exact Count Data						Speed Limit		SCS Dist.	Dse (c)
		Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto	Truck		
		(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(km/h)	(km/h)		
Los Carneros Road		70.2	0.0	0.0			3333.0	0.0	0.0	5.0	0.0	0.0	72		RQ 20	
US 101 SB Onramp		66.2	0.0	0.0			1339.0	0.0	0.0	5.0	0.0	0.0	72		RQ 12	
US 101 SB Offramp		61.8	0.0	0.0			190.0	0.0	0.0	5.0	0.0	0.0	100		RQ 12	
US 101 SB		77.0	0.0	0.0			4925.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 SB		77.0	0.0	0.0			4925.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 NB		76.2	0.0	0.0			4099.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 NB		76.2	0.0	0.0			4099.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	

### Ampeln

Name	M. ID	Active			Height	Coordinates		
		Day	Evening	Night	Begin	X	Y	Z
					(m)	(m)	(m)	(m)

### Immissionspunkte

Name	M. ID	Level Lr		Limit. Value		Land Use			Height	Coordinates		
		Day	Night	Day	Night	Type	Auto	Noise Type		X	Y	Z
		(dBA)	(dBA)	(dBA)	(dBA)					(m)	(m)	(m)
R 7-1B		67.5	66.8	0.0	0.0	x	Total	4.55	r	11238158.88	3814274.45	10.07
R 7-2B		67.6	66.9	0.0	0.0	x	Total	4.55	r	11238145.19	3814273.08	10.17
R 7-3B		67.5	66.8	0.0	0.0	x	Total	4.55	r	11238128.68	3814272.48	10.30
R 7-4B		67.0	66.4	0.0	0.0	x	Total	4.55	r	11238111.97	3814270.98	10.41
R 7-5B		64.0	63.4	0.0	0.0	x	Total	4.55	r	11238105.86	3814263.69	10.35
R 7-6B		60.2	59.5	0.0	0.0	x	Total	4.55	r	11238107.53	3814258.72	10.36
R 7-7B		55.1	54.2	0.0	0.0	x	Total	4.55	r	11238109.36	3814250.46	10.35
R 7-8B		44.0	43.3	0.0	0.0	x	Total	4.55	r	11238117.34	3814245.69	10.32
R 7-9B		43.9	43.2	0.0	0.0	x	Total	4.55	r	11238129.68	3814247.19	10.29
R 7-10B		48.1	47.6	0.0	0.0	x	Total	4.55	r	11238139.98	3814238.42	10.29
R 7-11B		48.1	47.5	0.0	0.0	x	Total	4.55	r	11238132.71	3814238.00	10.30
R 7-12B		48.2	47.3	0.0	0.0	x	Total	4.55	r	11238122.29	3814237.03	10.31
R 7-13B		54.3	53.0	0.0	0.0	x	Total	4.55	r	11238115.68	3814231.37	10.33
R 7-14B		53.5	52.2	0.0	0.0	x	Total	4.55	r	11238117.37	3814222.06	10.32
R 7-15B		45.3	44.7	0.0	0.0	x	Total	4.55	r	11238124.18	3814211.84	10.30
R 7-16B		58.8	57.1	0.0	0.0	x	Total	4.55	r	11238167.78	3814224.98	10.17
R 7-17B		53.5	52.8	0.0	0.0	x	Total	4.55	r	11238165.37	3814240.73	10.27
R 7-18B		62.4	60.8	0.0	0.0	x	Total	4.55	r	11238167.76	3814253.05	10.31
R 7-19B		64.3	63.1	0.0	0.0	x	Total	4.55	r	11238163.26	3814267.75	10.15
R 8-1B		66.0	65.3	0.0	0.0	x	Total	4.55	r	11238095.94	3814262.98	10.46
R 8-2B		66.1	65.4	0.0	0.0	x	Total	4.55	r	11238091.05	3814262.56	10.62



Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)		(m)	(m)	(m)
R 8-3B			66.1	65.4	0.0	0.0		x	Total	4.55	r	11238082.91	3814260.93	10.88
R 8-4B			66.4	65.7	0.0	0.0		x	Total	4.55	r	11238077.03	3814261.14	11.08
R 8-5B			66.5	65.7	0.0	0.0		x	Total	4.55	r	11238070.78	3814259.57	11.26
R 8-6B			66.1	65.3	0.0	0.0		x	Total	4.55	r	11238063.82	3814257.53	11.41
R 8-7B			66.7	65.9	0.0	0.0		x	Total	4.55	r	11238058.76	3814259.29	11.50
R 8-8B			66.8	66.0	0.0	0.0		x	Total	4.55	r	11238051.34	3814258.62	11.64
R 8-9B			66.9	66.1	0.0	0.0		x	Total	4.55	r	11238044.92	3814258.04	11.76
R 8-10B			67.0	66.2	0.0	0.0		x	Total	4.55	r	11238038.91	3814257.62	11.87
R 8-11B			65.3	64.4	0.0	0.0		x	Total	4.55	r	11238035.70	3814252.75	11.93
R 8-12B			56.8	55.3	0.0	0.0		x	Total	4.55	r	11238036.20	3814245.83	11.93
R 8-13B			62.7	61.7	0.0	0.0		x	Total	4.55	r	11238034.70	3814242.25	11.97
R 8-14B			62.7	61.7	0.0	0.0		x	Total	4.55	r	11238034.12	3814238.16	11.97
R 8-15B			46.2	45.5	0.0	0.0		x	Total	4.55	r	11238037.20	3814235.58	11.90
R 8-16B			44.3	42.7	0.0	0.0		x	Total	4.55	r	11238041.79	3814233.08	11.77
R 8-17B			44.3	42.8	0.0	0.0		x	Total	4.55	r	11238050.79	3814234.66	11.55
R 8-18B			43.8	42.3	0.0	0.0		x	Total	4.55	r	11238073.05	3814235.66	10.98
R 8-19B			44.0	42.3	0.0	0.0		x	Total	4.55	r	11238092.32	3814237.58	10.49
R 8-20B			45.0	42.3	0.0	0.0		x	Total	4.55	r	11238097.48	3814238.25	10.35
R 8-21B			45.0	44.4	0.0	0.0		x	Total	4.55	r	11238099.57	3814242.92	10.34
R 8-22B			45.2	44.6	0.0	0.0		x	Total	4.55	r	11238099.32	3814249.25	10.34
R 8-23B			44.5	44.1	0.0	0.0		x	Total	4.55	r	11238100.15	3814252.50	10.34
R 8-24B			62.1	61.2	0.0	0.0		x	Total	4.55	r	11238100.82	3814257.51	10.34
R 5-1B			66.9	66.1	0.0	0.0		x	Total	4.55	r	11238006.18	3814253.15	12.23
R 5-2B			67.3	66.6	0.0	0.0		x	Total	4.55	r	11238001.34	3814253.81	12.28
R 5-3B			66.9	66.1	0.0	0.0		x	Total	4.55	r	11237996.01	3814250.31	12.38
R 5-4B			67.3	66.3	0.0	0.0		x	Total	4.55	r	11237988.02	3814249.60	12.42
R 5-5B			65.8	64.9	0.0	0.0		x	Total	4.55	r	11237984.83	3814247.14	12.42
R 5-6B			67.2	66.3	0.0	0.0		x	Total	4.55	r	11237979.50	3814249.06	12.43
R 5-7B			66.8	65.9	0.0	0.0		x	Total	4.55	r	11237972.41	3814248.34	12.45
R 5-8B			67.4	66.6	0.0	0.0		x	Total	4.55	r	11237966.91	3814250.73	12.41
R 5-9B			67.1	66.4	0.0	0.0		x	Total	4.55	r	11237962.02	3814249.08	12.43
R 5-10B			64.2	63.4	0.0	0.0		x	Total	4.55	r	11237960.24	3814244.31	12.50
R 5-11B			61.3	60.3	0.0	0.0		x	Total	4.55	r	11237961.24	3814232.50	12.50
R 5-12B			59.7	58.6	0.0	0.0		x	Total	4.55	r	11237962.10	3814224.53	12.50
R 5-13B			48.3	45.2	0.0	0.0		x	Total	4.55	r	11237965.48	3814220.85	12.50
R 5-14B			48.9	44.8	0.0	0.0		x	Total	4.55	r	11237969.18	3814220.11	12.53
R 5-15B			46.1	45.3	0.0	0.0		x	Total	4.55	r	11237984.40	3814224.30	12.62
R 5-16B			47.5	44.9	0.0	0.0		x	Total	4.55	r	11238003.88	3814223.39	12.77
R 5-17B			46.4	45.5	0.0	0.0		x	Total	4.55	r	11238008.63	3814224.56	12.77
R 5-18B			62.8	60.7	0.0	0.0		x	Total	4.55	r	11238010.32	3814229.42	12.68
R 5-19B			63.5	61.7	0.0	0.0		x	Total	4.55	r	11238009.29	3814238.06	12.49
R 5-20B			64.6	63.3	0.0	0.0		x	Total	4.55	r	11238008.49	3814249.18	12.26
R4-1B			64.0	62.9	0.0	0.0		x	Total	4.55	r	11237949.84	3814242.00	12.50
R4-2B			67.1	66.4	0.0	0.0		x	Total	4.55	r	11237947.43	3814247.77	12.52
R4-3B			67.4	66.6	0.0	0.0		x	Total	4.55	r	11237941.96	3814248.40	12.58
R4-4B			66.9	66.2	0.0	0.0		x	Total	4.55	r	11237937.34	3814245.25	12.62
R4-5B			67.1	66.3	0.0	0.0		x	Total	4.55	r	11237929.36	3814244.20	12.71
R4-6B			65.9	65.0	0.0	0.0		x	Total	4.55	r	11237924.74	3814241.89	12.75
R4-7B			67.1	66.4	0.0	0.0		x	Total	4.55	r	11237921.16	3814243.89	12.79
R4-8B			66.5	65.6	0.0	0.0		x	Total	4.55	r	11237913.18	3814243.26	12.87
R4-9B			67.2	66.4	0.0	0.0		x	Total	4.55	r	11237907.93	3814245.36	12.93
R4-10B			66.9	66.0	0.0	0.0		x	Total	4.55	r	11237903.22	3814243.82	12.98
R4-11B			64.3	62.7	0.0	0.0		x	Total	4.55	r	11237901.39	3814239.15	13.00
R4-12B			64.0	62.2	0.0	0.0		x	Total	4.55	r	11237901.89	3814232.81	13.00
R4-13B			63.8	61.9	0.0	0.0		x	Total	4.55	r	11237902.64	3814226.72	12.98
R4-14B			63.8	61.9	0.0	0.0		x	Total	4.55	r	11237903.14	3814220.22	13.03
R4-15B			58.4	46.3	0.0	0.0		x	Total	4.55	r	11237905.89	3814215.30	13.05
R4-16B			58.0	46.2	0.0	0.0		x	Total	4.55	r	11237910.23	3814214.63	13.00
R4-17B			51.7	45.6	0.0	0.0		x	Total	4.55	r	11237915.31	3814218.22	12.88
R4-18B			52.8	45.3	0.0	0.0		x	Total	4.55	r	11237923.65	3814218.89	12.75
R4-19B			51.9	45.2	0.0	0.0		x	Total	4.55	r	11237931.41	3814219.39	12.64
R4-20B			50.9	44.8	0.0	0.0		x	Total	4.55	r	11237938.41	3814220.14	12.55
R4-21B			50.5	44.6	0.0	0.0		x	Total	4.55	r	11237944.50	3814217.80	12.50

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)		(m)	(m)	(m)
R4-22B			46.2	44.8	0.0	0.0		x	Total	4.55	r	11237949.25	3814219.14	12.50
R4-23B			60.2	58.8	0.0	0.0		x	Total	4.55	r	11237951.00	3814224.81	12.50
R4-24B			62.5	61.0	0.0	0.0		x	Total	4.55	r	11237950.00	3814235.23	12.50
R3-1B			57.9	56.8	0.0	0.0		x	Total	4.55	r	11237930.46	3814204.31	13.00
R3-2B			58.9	57.7	0.0	0.0		x	Total	4.55	r	11237924.19	3814204.84	13.04
R3-3B			61.7	60.6	0.0	0.0		x	Total	4.55	r	11237913.90	3814205.68	13.10
R3-4B			63.5	61.8	0.0	0.0		x	Total	4.55	r	11237906.25	3814205.88	13.14
R3-5B			64.5	62.5	0.0	0.0		x	Total	4.55	r	11237903.92	3814198.64	13.08
R3-6B			64.1	62.1	0.0	0.0		x	Total	4.55	r	11237906.41	3814190.27	13.00
R3-7B			64.6	62.7	0.0	0.0		x	Total	4.55	r	11237905.92	3814184.34	13.00
R3-8B			64.8	63.1	0.0	0.0		x	Total	4.55	r	11237905.28	3814175.17	13.00
R3-10B			64.7	62.9	0.0	0.0		x	Total	4.55	r	11237904.36	3814159.15	13.00
R3-11B			64.6	62.8	0.0	0.0		x	Total	4.55	r	11237903.89	3814152.34	13.00
R3-12B			64.7	62.9	0.0	0.0		x	Total	4.55	r	11237900.93	3814146.17	13.04
R3-13B			64.3	62.3	0.0	0.0		x	Total	4.55	r	11237901.77	3814140.17	13.07
R3-14B			56.4	43.8	0.0	0.0		x	Total	4.55	r	11237904.96	3814138.70	13.07
R3-15B			54.5	43.8	0.0	0.0		x	Total	4.55	r	11237916.26	3814137.67	13.03
R3-16B			53.2	43.3	0.0	0.0		x	Total	4.55	r	11237926.46	3814137.10	13.00
R3-17B			51.5	50.6	0.0	0.0		x	Total	4.55	r	11237930.11	3814142.83	13.00
R3-18B			51.0	50.4	0.0	0.0		x	Total	4.55	r	11237928.78	3814169.17	13.00
R3-19B			50.3	49.9	0.0	0.0		x	Total	4.55	r	11237929.78	3814185.83	13.00
R3-20B			50.8	50.2	0.0	0.0		x	Total	4.55	r	11237932.95	3814200.50	13.00
R2-1B			61.0	59.9	0.0	0.0		x	Total	4.55	r	11237916.87	3814093.05	9.14
R2-2B			60.9	59.8	0.0	0.0		x	Total	4.55	r	11237911.83	3814086.96	9.16
R2-3B			60.8	59.6	0.0	0.0		x	Total	4.55	r	11237907.84	3814085.07	9.15
R2-4B			60.6	59.5	0.0	0.0		x	Total	4.55	r	11237903.85	3814080.45	9.17
R2-5B			58.9	57.1	0.0	0.0		x	Total	4.55	r	11237905.11	3814076.46	9.20
R2-6B			51.3	43.7	0.0	0.0		x	Total	4.55	r	11237911.41	3814071.62	9.05
R2-7B			53.2	48.2	0.0	0.0		x	Total	4.55	r	11237917.71	3814065.53	8.92
R2-8B			54.4	51.6	0.0	0.0		x	Total	4.55	r	11237924.85	3814058.18	8.91
R2-9B			53.6	50.2	0.0	0.0		x	Total	4.55	r	11237931.15	3814054.19	8.92
R2-10B			50.2	40.5	0.0	0.0		x	Total	4.55	r	11237936.41	3814052.93	8.94
R2-11B			55.7	53.2	0.0	0.0		x	Total	4.55	r	11237933.89	3814046.84	8.87
R2-12B			57.6	55.9	0.0	0.0		x	Total	4.55	r	11237929.05	3814041.59	8.79
R2-13B			59.3	58.1	0.0	0.0		x	Total	4.55	r	11237922.96	3814033.40	8.67
R2-14B			59.6	58.6	0.0	0.0		x	Total	4.55	r	11237915.40	3814023.32	8.57
R2-15B			59.3	58.5	0.0	0.0		x	Total	4.55	r	11237910.36	3814016.60	8.56
R2-16B			56.3	55.6	0.0	0.0		x	Total	4.55	r	11237904.69	3814008.41	8.54
R2-17B			47.6	46.7	0.0	0.0		x	Total	4.55	r	11237905.53	3814001.90	8.48
R2-18B			47.7	45.7	0.0	0.0		x	Total	4.55	r	11237908.89	3813998.96	8.43
R2-19B			49.9	45.9	0.0	0.0		x	Total	4.55	r	11237914.35	3813994.34	8.38
R2-20B			49.1	45.0	0.0	0.0		x	Total	4.55	r	11237917.92	3813991.82	8.34
R2-21B			44.2	44.1	0.0	0.0		x	Total	4.55	r	11237925.48	3813995.60	8.25
R2-22B			44.4	44.2	0.0	0.0		x	Total	4.55	r	11237935.78	3814009.04	8.45
R2-23B			44.2	44.1	0.0	0.0		x	Total	4.55	r	11237947.96	3814024.79	8.68
R2-24B			44.5	44.3	0.0	0.0		x	Total	4.55	r	11237960.56	3814040.96	8.92
R2-25B			53.6	52.9	0.0	0.0		x	Total	4.55	r	11237962.45	3814056.29	9.08
R2-26B			58.0	57.1	0.0	0.0		x	Total	4.55	r	11237951.11	3814068.68	9.07
R2-27B			57.8	56.9	0.0	0.0		x	Total	4.55	r	11237956.15	3814064.69	9.08
R2-28B			58.0	57.2	0.0	0.0		x	Total	4.55	r	11237941.24	3814076.04	9.08
R2-29B			59.3	58.5	0.0	0.0		x	Total	4.55	r	11237935.57	3814081.92	9.09
R2-30B			60.6	59.7	0.0	0.0		x	Total	4.55	r	11237927.16	3814088.22	9.09
R6-1B			54.1	53.6	0.0	0.0		x	Total	4.55	r	11238102.76	3814182.07	10.66
R6-2B			54.6	54.0	0.0	0.0		x	Total	4.55	r	11238087.19	3814180.63	10.85
R6-3B			56.7	56.0	0.0	0.0		x	Total	4.55	r	11238054.90	3814177.76	11.10
R6-4B			57.1	56.2	0.0	0.0		x	Total	4.55	r	11238037.24	3814169.05	10.88
R6-5B			56.6	55.7	0.0	0.0		x	Total	4.55	r	11238038.29	3814157.89	10.72
R6-6B			44.4	39.8	0.0	0.0		x	Total	4.55	r	11238050.67	3814151.80	10.57
R1-1B			59.4	55.8	0.0	0.0		x	Total	4.55	r	11237833.27	3813996.54	8.83
R1-2B			60.9	57.4	0.0	0.0		x	Total	4.55	r	11237824.45	3813983.73	8.91
R1-3B			56.8	40.2	0.0	0.0		x	Total	4.55	r	11237833.27	3813973.23	9.05
R1-4B			53.4	39.6	0.0	0.0		x	Total	4.55	r	11237867.71	3813948.03	9.00
R1-5B			43.1	42.8	0.0	0.0		x	Total	4.55	r	11237883.04	3813953.70	8.88

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	X	Y	Z	
			(dBA)	(dBA)	(dBA)	(dBA)								
R1-6B			59.3	58.5	0.0	0.0		x	Total	4.55	r11237889.97	3813979.95	8.81	
R1-7B			60.0	59.1	0.0	0.0		x	Total	4.55	r11237880.10	3813982.05	8.82	
R1-8B			60.2	59.3	0.0	0.0		x	Total	4.55	r11237872.75	3813973.02	8.89	
R1-9B			60.3	59.5	0.0	0.0		x	Total	4.55	r11237860.99	3813977.22	8.90	
R1-10B			59.9	58.6	0.0	0.0		x	Total	4.55	r11237843.77	3813990.45	8.88	

### Gebietsausweisungen

Name	M.	ID	Type	Persons
				(1/km <sup>2</sup> )

### Hindernisse

#### Schirme

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height	
			left	right		horz.	vert.	Begin	End
					(m)	(m)	(m)	(m)	

#### Häuser

Name	M.	ID	RB	Residents	Absorption	Height
						Begin (m)
			x	0		3.65 r
			x	0		3.65 r
			x	0		6.70 r
			x	0		6.70 r
			x	0		9.75 r
			x	0		9.75 r
			x	0		4.60 r
			x	0		6.70 r
			x	0		9.75 r
			x	0		9.75 r
			x	0		4.60 r
			x	0		9.75 r

#### Bewuchs

Name	M.	ID	Height
			(m)

#### Bebauung

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

### Geometriedaten

#### Geometrie Linienquellen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

#### Geometrie Flächenquellen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Parkplätze

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Straßen

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)		
Los Carneros Road			11237697.29	3813908.86	7.62	7.60		
			11237759.07	3813961.83	10.67	10.70		
			11237782.99	3813989.66	10.67	11.00		
			11237808.40	3814029.18	12.50	12.50		
			11237829.81	3814079.44	12.80	14.00		
			11237845.52	3814131.11	14.33	16.00		
			11237849.30	3814230.44	14.94	18.50		
			11237851.61	3814289.45	16.76	21.30		
			11237854.07	3814329.87	18.29	21.50		
			11237857.43	3814385.23	18.29	18.29		
			11237861.66	3814452.97	16.46	16.46		
US 101 SB Onramp			11237862.91	3814329.11	14.33	21.50		
			11237917.30	3814334.68	14.63	19.00		
			11237998.36	3814343.08	14.63	15.80		
			11238188.34	3814363.72	10.36	12.20		
			11238396.35	3814383.05	9.75	10.40		
US 101 SB Offramp			11237577.38	3814297.86	12.19	12.19		
			11237682.81	3814309.20	14.33	14.33		
			11237760.93	3814317.60	14.33	18.00		
			11237844.93	3814327.68	14.00	21.50		
US 101 SB			11237580.17	3814319.88	12.80	12.80		
			11237676.48	3814338.40	12.50	12.50		
			11237752.15	3814353.33	12.19	12.19		
			11237789.19	3814359.46	12.19	12.19		
			11237847.26	3814365.39	12.50	12.50		
US 101 SB			11237865.59	3814369.12	12.50	12.50		
			11237906.40	3814372.39	11.28	11.28		
			11237997.12	3814376.59	10.97	10.97		
			11238183.92	3814379.77	10.97	10.97		
			11238395.93	3814392.44	10.36	10.36		
US 101 NB			11238394.07	3814413.64	9.14	9.14		
			11238181.55	3814403.56	9.75	9.75		
			11237995.91	3814396.84	11.28	11.28		
			11237901.83	3814389.28	10.67	10.67		
			11237866.49	3814386.68	12.50	12.50		
US 101 NB			11237847.87	3814383.91	12.50	12.50		
			11237786.75	3814375.84	12.19	12.19		
			11237748.95	3814369.96	12.19	12.19		
			11237674.19	3814356.52	13.11	13.11		
			11237577.59	3814337.20	12.50	12.50		

### Geometrie Schienen

Name	Height		Coordinates					
	Begin	End	x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		
UPRR	12.50	a	12.50	a	11237570.03	3814262.43	12.50	1.88
					11237838.85	3814285.11	12.50	11.38
UPRR	12.50	a	8.53	a	11237861.86	3814287.47	12.50	11.58
					11238395.28	3814332.85	8.53	0.89

### Geometrie Schirme

Name	M.	ID	Absorption		Z-Ext. (m)	Cantilever		Height		Coordinates			
			left	right		horz. (m)	vert. (m)	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)
										11237880.37	3814214.17	14.90	13.10
										11237881.18	3814251.51	14.90	13.10
										11237882.02	3814269.67	13.70	11.90
										11237895.41	3814270.84	13.40	11.60
										11237911.06	3814272.16	12.80	11.00
										11237945.61	3814275.47	12.80	11.00
										11237961.46	3814277.18	12.50	10.70
										11238006.41	3814281.33	12.30	10.50
										11238074.37	3814287.71	11.90	10.10
										11238128.78	3814292.54	10.95	9.15
										11238169.64	3814296.43	10.34	8.54
										11238187.40	3814297.69	10.95	9.15

### Geometrie Häuser

Name	M.	ID	RB	Residents	Absorption	Height (m)	r	Coordinates			
								x (m)	y (m)	z (m)	Ground (m)
				x	0	3.65	r	11238188.92	3814297.40	12.80	9.15
								11238194.21	3814297.14	12.80	9.21
								11238193.42	3814235.75	12.80	8.41
								11238220.94	3814234.69	12.80	8.50
								11238220.67	3814227.01	12.80	8.34
								11238187.86	3814229.66	12.80	8.27
								11238189.18	3814297.40	12.80	9.15
				x	0	3.65	r	11238198.18	3814176.74	11.11	7.46
								11238200.30	3814224.10	11.11	8.31
								11238237.34	3814223.31	11.11	8.24
								11238236.55	3814196.05	11.11	7.69
								11238223.32	3814196.32	11.11	7.71
								11238222.79	3814175.68	11.11	7.29
				x	0	6.70	r	11237903.99	3814215.91	18.27	11.57
								11237901.32	3814243.25	18.27	11.50
								11237905.31	3814243.57	18.27	11.46
								11237905.26	3814244.72	18.27	11.46
								11237909.41	3814244.98	18.27	11.42
								11237909.83	3814239.79	18.27	11.40
								11237911.82	3814239.94	18.27	11.38
								11237911.77	3814242.25	18.27	11.39
								11237923.27	3814243.15	18.27	11.27
								11237923.43	3814240.99	18.27	11.26
								11237927.52	3814241.41	18.27	11.22
								11237927.31	3814243.51	18.27	11.23
								11237939.07	3814244.68	18.27	11.11
								11237939.22	3814242.53	18.27	11.10
								11237941.17	3814242.68	18.27	11.08
								11237940.69	3814247.83	18.27	11.10
								11237944.63	3814248.15	18.27	11.05
								11237944.74	3814246.83	18.27	11.05
								11237948.73	3814247.15	18.27	11.01
								11237951.25	3814219.58	18.27	11.00
								11237947.26	3814219.27	18.27	11.00
								11237947.34	3814218.14	18.27	11.00
								11237943.38	3814217.89	18.27	11.00
								11237942.88	3814222.85	18.27	11.01
								11237941.01	3814222.81	18.27	11.03
								11237941.13	3814220.39	18.27	11.03
								11237913.61	3814218.28	18.27	11.40
								11237913.48	3814220.39	18.27	11.37
								11237911.36	3814220.19	18.27	11.41
								11237911.89	3814215.23	18.27	11.47
								11237907.92	3814214.84	18.27	11.53
								11237907.79	3814215.89	18.27	11.52

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237903.82	3814215.50	18.27	11.57
			x	0		6.70	11237960.36	3814248.60	17.64	10.94
							11237964.18	3814248.92	17.64	10.94
							11237964.17	3814249.98	17.64	10.92
							11237968.27	3814250.40	17.64	10.92
							11237968.69	3814245.25	17.64	10.97
							11237970.58	3814245.46	17.64	10.96
							11237970.37	3814247.66	17.64	10.96
							11237982.13	3814248.71	17.64	10.93
							11237982.45	3814246.30	17.64	10.93
							11237986.44	3814246.72	17.64	10.93
							11237986.23	3814249.03	17.64	10.91
							11237997.99	3814249.98	17.64	10.87
							11237998.10	3814247.77	17.64	10.91
							11237999.99	3814247.98	17.64	10.88
							11237999.57	3814253.13	17.64	10.80
							11238004.30	3814253.65	17.64	10.75
							11238004.33	3814252.58	17.64	10.75
							11238007.69	3814252.90	17.64	10.71
							11238010.07	3814225.08	17.64	11.27
							11238006.19	3814224.87	17.64	11.24
							11238006.29	3814223.72	17.64	11.26
							11238002.14	3814223.44	17.64	11.26
							11238001.77	3814228.23	17.64	11.21
							11237999.88	3814228.13	17.64	11.20
							11238000.02	3814226.06	17.64	11.22
							11237972.62	3814223.61	17.64	11.03
							11237972.36	3814225.92	17.64	11.01
							11237970.47	3814225.82	17.64	10.99
							11237971.00	3814220.46	17.64	11.05
							11237967.11	3814219.93	17.64	11.02
							11237966.80	3814221.40	17.64	11.00
							11237962.80	3814220.88	17.64	11.00
			x	0		9.75	11238034.68	3814235.95	20.20	10.45
							11238034.15	3814241.31	20.20	10.48
							11238035.41	3814241.31	20.20	10.45
							11238034.89	3814244.67	20.20	10.46
							11238036.99	3814244.88	20.20	10.42
							11238036.78	3814247.40	20.20	10.42
							11238034.26	3814247.29	20.20	10.46
							11238034.26	3814248.66	20.20	10.45
							11238036.57	3814248.97	20.20	10.42
							11238036.04	3814253.91	20.20	10.43
							11238037.51	3814254.12	20.20	10.40
							11238037.30	3814256.75	20.20	10.40
							11238046.44	3814257.59	20.20	10.23
							11238046.65	3814255.28	20.20	10.23
							11238048.96	3814255.49	20.20	10.18
							11238048.86	3814257.80	20.20	10.18
							11238060.52	3814258.85	20.20	9.97
							11238060.83	3814256.64	20.20	9.96
							11238065.56	3814257.06	20.20	9.87
							11238065.45	3814257.80	20.20	9.88
							11238069.44	3814258.11	20.20	9.78
							11238069.23	3814258.85	20.20	9.79
							11238072.65	3814259.11	20.20	9.71
							11238072.49	3814260.21	20.20	9.72
							11238081.66	3814261.05	20.20	9.43
							11238081.66	3814260.05	20.20	9.42
							11238084.75	3814260.46	20.20	9.32
							11238085.16	3814256.30	20.20	9.30
							11238090.42	3814257.05	20.20	9.13
							11238089.92	3814261.88	20.20	9.16

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238096.58	3814262.38	20.20	8.94
							11238096.75	3814259.05	20.20	8.93
							11238100.34	3814259.38	20.20	8.84
							11238101.09	3814253.71	20.20	8.84
							11238099.67	3814253.54	20.20	8.84
							11238099.92	3814250.54	20.20	8.84
							11238098.84	3814250.54	20.20	8.84
							11238099.00	3814247.71	20.20	8.84
							11238101.42	3814247.96	20.20	8.84
							11238101.25	3814246.21	20.20	8.84
							11238098.84	3814246.04	20.20	8.84
							11238099.25	3814241.12	20.20	8.84
							11238098.42	3814241.12	20.20	8.84
							11238098.50	3814238.70	20.20	8.84
							11238090.33	3814237.95	20.20	9.05
							11238090.33	3814238.70	20.20	9.05
							11238087.16	3814238.54	20.20	9.13
							11238087.33	3814237.37	20.20	9.12
							11238078.16	3814236.45	20.20	9.35
							11238077.99	3814237.37	20.20	9.36
							11238074.66	3814237.12	20.20	9.45
							11238074.74	3814236.04	20.20	9.44
							11238069.91	3814235.79	20.20	9.56
							11238069.82	3814236.79	20.20	9.57
							11238063.74	3814236.12	20.20	9.73
							11238063.74	3814235.16	20.20	9.72
							11238054.52	3814234.22	20.20	9.95
							11238054.48	3814235.37	20.20	9.96
							11238045.56	3814234.62	20.20	10.19
							11238045.56	3814233.62	20.20	10.18
							11238038.48	3814233.12	20.20	10.36
							11238038.14	3814236.12	20.20	10.38
			x	0		9.75 r	11238106.23	3814266.67	18.61	8.86
							11238109.59	3814266.88	18.61	8.88
							11238109.38	3814269.82	18.61	8.89
							11238116.31	3814270.66	18.61	8.90
							11238117.26	3814265.51	18.61	8.88
							11238122.10	3814265.85	18.61	8.84
							11238121.84	3814270.15	18.61	8.85
							11238124.75	3814270.28	18.61	8.83
							11238124.82	3814271.34	18.61	8.83
							11238134.15	3814272.07	18.61	8.76
							11238134.21	3814270.94	18.61	8.75
							11238137.45	3814271.34	18.61	8.73
							11238137.19	3814272.40	18.61	8.73
							11238141.94	3814272.82	18.61	8.69
							11238141.94	3814271.82	18.61	8.69
							11238148.11	3814272.57	18.61	8.64
							11238148.28	3814273.48	18.61	8.64
							11238152.86	3814273.98	18.61	8.61
							11238152.95	3814273.07	18.61	8.60
							11238160.89	3814273.86	18.61	8.58
							11238161.15	3814270.95	18.61	8.61
							11238162.54	3814271.08	18.61	8.61
							11238162.81	3814266.25	18.61	8.66
							11238165.25	3814266.45	18.61	8.66
							11238165.32	3814264.80	18.61	8.68
							11238162.87	3814264.66	18.61	8.68
							11238163.14	3814262.15	18.61	8.70
							11238166.25	3814262.55	18.61	8.71
							11238166.31	3814260.89	18.61	8.72
							11238164.13	3814260.69	18.61	8.72
							11238164.33	3814258.31	18.61	8.75

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
						11238166.64	3814258.51	18.61	8.75	
						11238167.64	3814247.33	18.61	8.82	
						11238167.64	3814246.00	18.61	8.81	
						11238163.72	3814245.67	18.61	8.81	
						11238163.89	3814241.75	18.61	8.78	
						11238164.78	3814241.78	18.61	8.78	
						11238165.04	3814238.54	18.61	8.76	
						11238166.23	3814238.71	18.61	8.76	
						11238166.30	3814237.48	18.61	8.75	
						11238163.76	3814237.28	18.61	8.75	
						11238164.02	3814234.21	18.61	8.72	
						11238166.47	3814234.47	18.61	8.72	
						11238166.66	3814232.95	18.61	8.71	
						11238163.36	3814232.75	18.61	8.71	
						11238163.42	3814229.77	18.61	8.69	
						11238164.61	3814229.77	18.61	8.69	
						11238164.75	3814227.19	18.61	8.67	
						11238167.00	3814227.39	18.61	8.67	
						11238167.59	3814220.78	18.61	8.66	
						11238163.95	3814220.38	18.61	8.62	
						11238164.27	3814217.23	18.61	8.59	
						11238156.28	3814216.81	18.61	8.60	
						11238156.18	3814215.44	18.61	8.59	
						11238151.56	3814214.92	18.61	8.62	
						11238151.45	3814216.18	18.61	8.62	
						11238145.15	3814215.65	18.61	8.65	
						11238145.25	3814214.60	18.61	8.65	
						11238136.01	3814213.87	18.61	8.71	
						11238136.01	3814214.60	18.61	8.71	
						11238132.86	3814214.50	18.61	8.73	
						11238132.54	3814218.38	18.61	8.73	
						11238126.87	3814218.07	18.61	8.77	
						11238127.40	3814213.03	18.61	8.78	
						11238120.78	3814212.50	18.61	8.82	
						11238120.58	3814215.48	18.61	8.81	
						11238117.10	3814215.13	18.61	8.84	
						11238116.49	3814220.84	18.61	8.83	
						11238117.73	3814220.90	18.61	8.82	
						11238117.52	3814223.95	18.61	8.82	
						11238118.78	3814224.05	18.61	8.81	
						11238118.50	3814226.50	18.61	8.81	
						11238116.47	3814226.37	18.61	8.82	
						11238116.05	3814232.93	18.61	8.82	
						11238119.15	3814233.30	18.61	8.80	
						11238118.89	3814236.34	18.61	8.81	
						11238126.87	3814236.97	18.61	8.80	
						11238127.06	3814235.74	18.61	8.79	
						11238130.34	3814236.03	18.61	8.79	
						11238130.23	3814237.29	18.61	8.80	
						11238135.07	3814237.81	18.61	8.79	
						11238135.16	3814236.77	18.61	8.79	
						11238137.87	3814236.95	18.61	8.78	
						11238137.94	3814238.01	18.61	8.79	
						11238142.84	3814238.34	18.61	8.79	
						11238142.93	3814236.78	18.61	8.77	
						11238145.70	3814237.04	18.61	8.77	
						11238145.57	3814238.45	18.61	8.78	
						11238151.09	3814238.63	18.61	8.78	
						11238151.37	3814235.03	18.61	8.75	
						11238154.39	3814235.19	18.61	8.75	
						11238153.66	3814241.91	18.61	8.80	
						11238151.03	3814241.70	18.61	8.80	
						11238150.79	3814244.75	18.61	8.82	



Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238152.42	3814244.85	18.61	8.82
							11238152.29	3814247.48	18.61	8.84
							11238154.60	3814247.79	18.61	8.84
							11238153.93	3814254.00	18.61	8.77
							11238151.03	3814253.68	18.61	8.77
							11238151.24	3814250.00	18.61	8.81
							11238146.30	3814249.58	18.61	8.80
							11238146.24	3814250.82	18.61	8.79
							11238142.93	3814250.81	18.61	8.78
							11238143.05	3814248.84	18.61	8.80
							11238138.53	3814248.42	18.61	8.80
							11238138.53	3814249.37	18.61	8.79
							11238131.60	3814248.74	18.61	8.78
							11238131.49	3814247.79	18.61	8.79
							11238122.57	3814247.06	18.61	8.78
							11238122.57	3814247.79	18.61	8.78
							11238119.62	3814247.69	18.61	8.81
							11238119.83	3814246.43	18.61	8.80
							11238111.96	3814245.80	18.61	8.85
							11238111.75	3814248.53	18.61	8.86
							11238110.17	3814248.63	18.61	8.85
							11238109.75	3814253.57	18.61	8.86
							11238107.44	3814253.47	18.61	8.85
							11238107.23	3814254.94	18.61	8.85
							11238109.65	3814255.15	18.61	8.86
							11238109.44	3814257.67	18.61	8.87
							11238108.17	3814257.77	18.61	8.86
							11238108.17	3814260.61	18.61	8.86
							11238106.70	3814260.61	18.61	8.85
			x	0		4.60	r 11238097.36	3814231.78	13.44	8.84
							11238106.36	3814232.57	13.44	8.84
							11238107.15	3814224.83	13.44	8.84
							11238110.06	3814225.16	13.44	8.84
							11238110.59	3814216.69	13.44	8.84
							11238107.68	3814216.44	13.44	8.84
							11238108.21	3814210.54	13.44	8.84
							11238104.31	3814210.14	13.44	8.84
							11238104.24	3814211.66	13.44	8.84
							11238100.20	3814211.26	13.44	8.84
							11238099.94	3814213.25	13.44	8.84
							11238096.56	3814212.92	13.44	8.84
							11238097.03	3814209.74	13.44	8.84
							11238088.95	3814208.88	13.44	8.87
							11238088.23	3814214.70	13.44	8.86
							11238080.15	3814214.17	13.44	9.07
							11238079.56	3814222.05	13.44	8.98
							11238098.22	3814223.90	13.44	8.84
			x	0		6.70	r 11237905.46	3814205.38	18.34	11.64
							11237914.47	3814205.18	18.34	11.59
							11237914.43	3814204.36	18.34	11.58
							11237923.12	3814203.86	18.34	11.53
							11237923.13	3814204.51	18.34	11.54
							11237932.31	3814203.84	18.34	11.50
							11237932.04	3814199.06	18.34	11.50
							11237932.94	3814199.01	18.34	11.50
							11237932.73	3814195.02	18.34	11.50
							11237927.74	3814195.33	18.34	11.50
							11237927.74	3814193.13	18.34	11.50
							11237929.89	3814192.97	18.34	11.50
							11237929.06	3814180.72	18.34	11.50
							11237926.72	3814181.05	18.34	11.50
							11237926.64	3814176.71	18.34	11.50
							11237928.76	3814176.52	18.34	11.50

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237927.92	3814163.93	18.34	11.50
							11237925.76	3814164.09	18.34	11.50
							11237925.76	3814160.17	18.34	11.50
							11237927.84	3814159.92	18.34	11.50
							11237927.34	3814148.00	18.34	11.50
							11237925.09	3814148.17	18.34	11.50
							11237924.92	3814146.00	18.34	11.50
							11237929.92	3814145.67	18.34	11.50
							11237929.63	3814141.37	18.34	11.50
							11237928.38	3814141.37	18.34	11.50
							11237928.34	3814137.33	18.34	11.50
							11237921.63	3814137.66	18.34	11.51
							11237921.59	3814136.87	18.34	11.52
							11237919.59	3814137.00	18.34	11.52
							11237919.59	3814137.96	18.34	11.52
							11237910.66	3814138.46	18.34	11.55
							11237910.54	3814137.66	18.34	11.55
							11237908.40	3814137.96	18.34	11.56
							11237908.44	3814138.69	18.34	11.55
							11237901.91	3814139.04	18.34	11.58
							11237902.12	3814143.33	18.34	11.55
							11237901.04	3814143.33	18.34	11.56
							11237901.24	3814147.42	18.34	11.53
							11237906.23	3814147.16	18.34	11.52
							11237906.41	3814149.29	18.34	11.50
							11237904.08	3814149.46	18.34	11.51
							11237904.83	3814161.72	18.34	11.50
							11237907.25	3814161.55	18.34	11.50
							11237907.41	3814165.64	18.34	11.50
							11237905.16	3814165.89	18.34	11.50
							11237906.00	3814177.97	18.34	11.50
							11237907.83	3814177.81	18.34	11.50
							11237908.08	3814182.06	18.34	11.50
							11237906.08	3814182.48	18.34	11.50
							11237906.87	3814194.52	18.34	11.52
							11237909.12	3814194.26	18.34	11.50
							11237909.19	3814196.57	18.34	11.53
							11237904.19	3814196.84	18.34	11.55
							11237904.45	3814201.12	18.34	11.60
							11237905.35	3814201.07	18.34	11.60
		x		0		9.75 r	11238039.03	3814154.34	18.89	9.14
							11238038.54	3814160.90	18.89	9.27
							11238040.69	3814161.10	18.89	9.28
							11238040.44	3814163.68	18.89	9.32
							11238039.44	3814163.68	18.89	9.31
							11238039.28	3814166.27	18.89	9.35
							11238037.86	3814166.27	18.89	9.34
							11238037.61	3814172.19	18.89	9.43
							11238040.94	3814172.44	18.89	9.45
							11238040.69	3814175.94	18.89	9.50
							11238047.20	3814176.27	18.89	9.55
							11238047.61	3814171.52	18.89	9.48
							11238052.53	3814171.94	18.89	9.48
							11238052.12	3814176.94	18.89	9.58
							11238057.20	3814177.35	18.89	9.59
							11238057.28	3814176.52	18.89	9.57
							11238063.29	3814176.94	18.89	9.55
							11238063.20	3814178.02	18.89	9.57
							11238067.87	3814178.52	18.89	9.55
							11238068.29	3814176.06	18.89	9.50
							11238073.42	3814176.44	18.89	9.48
							11238073.29	3814177.35	18.89	9.50
							11238077.13	3814177.77	18.89	9.45

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238077.09	3814178.52	18.89	9.46
							11238080.05	3814178.77	18.89	9.42
							11238079.96	3814179.77	18.89	9.43
							11238089.63	3814180.36	18.89	9.31
							11238089.80	3814179.48	18.89	9.30
							11238092.47	3814179.69	18.89	9.27
							11238092.89	3814176.02	18.89	9.23
							11238098.22	3814176.52	18.89	9.16
							11238097.64	3814181.11	18.89	9.21
							11238104.47	3814181.69	18.89	9.13
							11238104.61	3814178.58	18.89	9.10
							11238108.51	3814178.91	18.89	9.06
							11238108.97	3814173.35	18.89	9.01
							11238107.44	3814173.24	18.89	9.01
							11238108.78	3814158.07	18.89	8.86
							11238042.87	3814151.71	18.89	9.08
							11238042.54	3814154.56	18.89	9.14
			x	0		9.75	11237904.07	3814078.49	17.44	7.69
							11237909.95	3814086.21	17.44	7.65
							11237912.05	3814084.16	17.44	7.65
							11237913.15	3814085.47	17.44	7.65
							11237912.42	3814086.21	17.44	7.67
							11237917.51	3814092.72	17.44	7.64
							11237924.66	3814086.79	17.44	7.57
							11237926.07	3814088.52	17.44	7.59
							11237928.99	3814085.74	17.44	7.58
							11237929.44	3814086.26	17.44	7.59
							11237937.05	3814079.91	17.44	7.58
							11237936.21	3814078.86	17.44	7.57
							11237938.31	3814077.12	17.44	7.57
							11237938.68	3814077.60	17.44	7.58
							11237942.20	3814074.81	17.44	7.57
							11237941.25	3814073.66	17.44	7.56
							11237946.14	3814069.72	17.44	7.56
							11237946.77	3814070.35	17.44	7.57
							11237948.66	3814068.56	17.44	7.56
							11237949.60	3814069.46	17.44	7.57
							11237957.06	3814063.26	17.44	7.58
							11237956.22	3814062.21	17.44	7.58
							11237958.47	3814060.48	17.44	7.58
							11237955.38	3814056.64	17.44	7.55
							11237956.54	3814055.59	17.44	7.55
							11237958.64	3814057.90	17.44	7.57
							11237965.99	3814052.23	17.44	7.57
							11237964.24	3814049.73	17.44	7.54
							11237965.57	3814048.56	17.44	7.53
							11237920.72	3813989.94	17.44	6.81
							11237912.53	3813997.09	17.44	6.88
							11237914.31	3813999.19	17.44	6.88
							11237913.05	3814000.03	17.44	6.90
							11237911.37	3813997.82	17.44	6.90
							11237903.81	3814004.23	17.44	7.02
							11237905.59	3814006.44	17.44	7.02
							11237904.33	3814007.17	17.44	7.04
							11237907.69	3814011.16	17.44	7.03
							11237909.27	3814009.80	17.44	7.01
							11237910.95	3814012.00	17.44	7.01
							11237910.00	3814012.74	17.44	7.03
							11237911.90	3814014.94	17.44	7.03
							11237910.85	3814015.89	17.44	7.04
							11237917.15	3814023.66	17.44	7.06
							11237918.30	3814022.82	17.44	7.04
							11237921.67	3814027.13	17.44	7.09

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237920.51	3814028.08	17.44	7.10
							11237926.39	3814036.27	17.44	7.22
							11237927.55	3814035.32	17.44	7.21
							11237930.70	3814039.32	17.44	7.27
							11237929.33	3814040.58	17.44	7.28
							11237932.51	3814044.55	17.44	7.34
							11237933.24	3814044.08	17.44	7.34
							11237935.69	3814047.39	17.44	7.39
							11237937.14	3814045.67	17.44	7.37
							11237938.00	3814046.60	17.44	7.39
							11237938.67	3814046.10	17.44	7.38
							11237941.09	3814049.27	17.44	7.43
							11237942.17	3814049.35	17.44	7.44
							11237941.92	3814050.18	17.44	7.44
							11237942.09	3814051.85	17.44	7.46
							11237939.17	3814053.60	17.44	7.46
							11237938.42	3814053.18	17.44	7.46
							11237935.42	3814055.77	17.44	7.45
							11237934.75	3814055.02	17.44	7.44
							11237934.08	3814055.52	17.44	7.44
							11237932.58	3814053.52	17.44	7.43
							11237929.00	3814056.35	17.44	7.42
							11237929.75	3814057.27	17.44	7.43
							11237927.91	3814058.69	17.44	7.43
							11237927.16	3814057.35	17.44	7.42
							11237919.33	3814063.94	17.44	7.42
							11237920.08	3814064.77	17.44	7.43
							11237916.03	3814068.10	17.44	7.43
							11237915.17	3814067.34	17.44	7.44
							11237914.16	3814068.44	17.44	7.47
							11237915.82	3814070.11	17.44	7.45
							11237914.10	3814071.65	17.44	7.50
							11237913.49	3814070.86	17.44	7.50
							11237909.55	3814074.43	17.44	7.61
							11237909.97	3814074.85	17.44	7.60
							11237907.93	3814076.62	17.44	7.66
							11237906.24	3814074.64	17.44	7.67
							11237905.33	3814075.52	17.44	7.69
							11237906.14	3814076.48	17.44	7.69
		x		0		4.60 r	11237881.78	3814008.79	11.88	7.28
							11237891.07	3814025.96	11.88	7.31
							11237893.17	3814024.65	11.88	7.28
							11237893.49	3814025.39	11.88	7.28
							11237895.54	3814024.13	11.88	7.25
							11237895.22	3814023.60	11.88	7.25
							11237897.43	3814022.39	11.88	7.22
							11237899.74	3814021.08	11.88	7.19
							11237895.70	3814013.52	11.88	7.17
							11237898.69	3814011.78	11.88	7.13
							11237895.49	3814005.48	11.88	7.11
							11237897.74	3814004.22	11.88	7.08
							11237895.07	3813999.55	11.88	7.15
							11237893.17	3814000.70	11.88	7.17
							11237892.65	3813999.81	11.88	7.18
							11237891.39	3814000.91	11.88	7.19
							11237890.50	3813999.28	11.88	7.23
							11237887.71	3814001.23	11.88	7.25
							11237888.34	3814002.59	11.88	7.23
							11237886.92	3814003.38	11.88	7.24
							11237887.34	3814004.11	11.88	7.23
							11237883.93	3814006.11	11.88	7.27
							11237884.56	3814007.11	11.88	7.25
		x		0		9.75 r	11237824.66	3813980.79	17.23	7.48

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x (m)	y (m)	z (m)	Ground (m)
							11237875.27	3813944.25	17.23	7.41
							11237897.74	3813973.02	17.23	7.33
							11237883.25	3813983.52	17.23	7.31
							11237871.49	3813968.61	17.23	7.42
							11237835.16	3813995.91	17.23	7.33

### Geometrie Höhenlinien

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11237871.28	3814268.78	13.40
						11237882.03	3814269.78	11.90
						11237895.54	3814270.95	11.60
						11237910.79	3814272.20	11.00
						11237946.38	3814275.70	11.00
						11237960.87	3814277.35	10.70
						11238006.05	3814281.45	10.50
						11238074.42	3814287.97	10.10
						11238128.34	3814292.90	9.15
						11238169.52	3814296.90	8.54
						11238187.85	3814298.40	9.15
						11238186.80	3814204.20	7.93
						11237865.11	3814280.70	12.20
						11237919.09	3814284.91	11.00
						11238073.25	3814299.82	11.00
						11238250.89	3814315.71	10.10
						11237881.92	3814269.56	11.90
						11237880.84	3814250.05	13.10
						11237880.31	3814214.13	13.10
						11237879.47	3814200.69	13.40
						11237878.61	3814185.47	13.70
						11237876.44	3814158.13	12.80
						11237869.11	3814116.46	13.40
						11237862.61	3814092.28	14.90
						11237859.87	3814081.36	14.00
						11237854.83	3814065.92	13.70
						11237846.22	3814043.24	12.30
						11237832.15	3814014.88	11.90
						11237818.29	3813991.15	10.80
						11237902.99	3814212.44	11.60
						11237901.21	3814224.35	11.50
						11237900.28	3814243.40	11.50
						11237902.00	3814246.57	11.50
						11237950.17	3814249.75	11.00
						11237953.34	3814243.13	11.00
						11237958.77	3814244.06	11.00
						11237960.35	3814251.21	10.90
						11237989.86	3814253.46	10.90
						11238007.73	3814255.18	10.70
						11238009.71	3814251.60	10.70
						11238012.09	3814224.48	11.30
						11238004.75	3814221.37	11.30
						11237962.54	3814218.13	11.00
						11237942.76	3814216.34	11.00
						11237905.17	3814212.56	11.60
						11238034.49	3814231.70	10.40
						11238032.99	3814240.04	10.50
						11238032.90	3814255.29	10.40
						11238037.07	3814258.71	10.40
						11238071.50	3814261.46	9.76
						11238099.75	3814264.05	8.84
						11238103.51	3814259.21	8.84

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11238102.92	3814241.21	8.84
						11238097.59	3814236.29	8.84
						11238036.24	3814231.12	10.40
						11238112.56	3814239.62	8.84
						11238108.46	3814246.89	8.84
						11238105.41	3814257.35	8.84
						11238103.30	3814270.71	8.84
						11238114.15	3814274.15	8.93
						11238162.18	3814277.99	8.54
						11238169.19	3814272.83	8.54
						11238172.37	3814250.73	8.84
						11238172.50	3814218.98	8.84
						11238164.30	3814210.64	8.54
						11238121.56	3814208.39	8.84
						11238114.94	3814217.25	8.84
						11238112.16	3814239.35	8.84
						11238112.72	3814207.99	8.84
						11238091.71	3814201.80	8.84
						11238077.95	3814210.62	9.15
						11238074.07	3814220.91	8.99
						11238085.10	3814231.21	8.84
						11238099.06	3814234.46	8.84
						11238035.65	3814154.34	9.15
						11238032.74	3814175.25	9.45
						11238059.21	3814185.97	9.76
						11238107.77	3814188.61	9.15
						11238122.06	3814164.66	9.15
						11238120.07	3814155.53	9.15
						11237903.76	3814209.71	11.70
						11237902.44	3814191.06	11.50
						11237901.25	3814153.21	11.50
						11237899.92	3814136.14	11.60
						11237930.89	3814133.89	11.50
						11237935.25	3814206.67	11.50
						11237933.93	3814132.97	11.50
						11237963.18	3814143.95	11.00
						11237993.61	3814171.60	9.45
						11238023.78	3814173.72	9.76
						11237898.20	3814133.45	11.00
						11237897.36	3814121.11	8.54
						11237893.03	3814100.94	7.62
						11237880.03	3814067.93	7.62
						11237861.35	3814016.74	7.62
						11237844.60	3814008.66	7.32
						11237824.93	3813996.32	7.32
						11237916.25	3814099.08	7.93
						11237901.43	3814082.14	7.62
						11237900.90	3814072.35	7.74
						11237912.78	3814050.56	7.32
						11237892.08	3814029.08	7.32
						11237877.91	3814010.91	7.32
						11237871.24	3813998.24	7.26
						11237854.43	3813994.25	7.32
						11237831.96	3813999.08	7.30
						11237821.24	3813984.16	7.32
						11237825.75	3813978.00	7.56
						11237860.61	3813946.91	7.56
						11237881.20	3813937.25	7.32
						11237900.52	3813973.37	7.32
						11237925.85	3813991.70	6.71
						11237971.28	3814054.17	7.62
						11237957.78	3814072.04	7.62
						11237921.26	3814097.71	7.62

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11237984.06	3814104.64	11.30
						11238018.30	3814121.86	10.40
						11238056.65	3814140.87	8.84
						11238109.00	3814156.21	8.84

### Geometrie Bruchkanten

Name	M.	ID	Coordinates	
			x (m)	y (m)

# Bericht (Cumltv plus Prj 3rd Floor Rcvrs.cna)

Gruppentabelle Tag und Nacht

Name	Expression	R 7-1C		R 7-2C		R 7-3C		R 7-4C		R 7-5C		R 7-6C		R 7-7C		R 7-8C		R 7-9C	
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night

Source		R 7-1C		R 7-2C		R 7-3C		R 7-4C		R 7-5C		R 7-6C		R 7-7C		R 7-8C	
Name	M. ID	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Los Carneros Road																	38.3
US 101 SB Onramp												46.9		44.4			28.7
US 101 SB Offramp														23.3			22.8
US 101 SB		64.1	-83.4	63.9	-83.6	62.6	-85.2	62.4	-85.3	59.5		57.3		53.0			37.5
US 101 NB		52.0		51.2		55.6		55.3		56.8		53.3		51.1			35.7
US 101 NB														21.2			21.9
UPRR		49.8	49.8	50.2	50.2	50.7	50.7	51.2	51.2	51.4	51.4	39.4	39.4	40.7	40.7	39.7	39.7
UPRR		71.0	71.0	71.2	71.2	71.6	71.6	71.6	71.6	68.5	68.5	63.8	63.8	58.6	58.6	49.1	49.1

## Schallquellen

### Punktquellen

Name	M.	ID	Result. PWL			Lw / Li		Correction			Sound Reduction		Attenuation	Operating Time			K0
			Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)	Special (min)	

### Linienquellen

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Flächenquellen

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Flächenquellen vertikal

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Schienen

Name	M.	ID	Lm,E		Train Class	Add.Level				Vmax
			Day (dBA)	Night (dBA)		Dfb (dB)	Dbr (dB)	Dbü (dB)	Dra (dB)	
UPRR			85.0	85.0						
UPRR			78.0	78.0						



### Zugklassen

Name	M. ID	Lm,E		Train Class										Add.Level				Vmax	
		Day	Night	Type	p	Number of Trains			v	l	Dfz	Dae	Lm,E,i (dB)		Dfb	Dbr	Dbü		Dra
		(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night	(dB)	(dB)	(dB)		(dB)
UPRR		85.0	85.0																
UPRR		78.0	78.0																

Name	Lm,E		Train Class										
	Day	Night	Type	p	Number of Trains			v	l	Dfz	Dae	Lm,E,i (dB)	
	(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night

### Parkplätze

Name	M. ID	Type	Lwa			Event Data						Penalty Type		Penalty Surface		A
			Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ			Kpa	Type	Kstro	Surface	
			(dBA)	(dBA)	(dBA)				Day	Special	Night					

### Strassen

Name	M. ID	Lme			Count Data		exact Count Data						Speed Limit		SCS Dist.	Ds (c)
		Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto (km/h)	Truck (km/h)		
		(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night				
Los Carneros Road		70.2	0.0	0.0			3333.0	0.0	0.0	5.0	0.0	0.0	72		RQ 20	
US 101 SB Onramp		66.2	0.0	0.0			1339.0	0.0	0.0	5.0	0.0	0.0	72		RQ 12	
US 101 SB Offramp		61.8	0.0	0.0			190.0	0.0	0.0	5.0	0.0	0.0	100		RQ 12	
US 101 SB		77.0	0.0	0.0			4925.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 SB		77.0	0.0	0.0			4925.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 NB		76.2	0.0	0.0			4099.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 NB		76.2	0.0	0.0			4099.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	

### Ampeln

Name	M. ID	Active			Height	Coordinates		
		Day	Evening	Night	Begin	X	Y	Z
					(m)	(m)	(m)	(m)

### Immissionspunkte

Name	M. ID	Level Lr		Limit. Value		Land Use		Height (m)	Coordinates			
		Day	Night	Day	Night	Type	Auto		Noise Type	X	Y	Z
		(dBA)	(dBA)	(dBA)	(dBA)					(m)	(m)	(m)
R 7-1C		71.8	71.0	0.0	0.0	x	Total	7.60	r11238158.88	3814274.45	16.17	
R 7-2C		72.0	71.2	0.0	0.0	x	Total	7.60	r11238145.19	3814273.08	16.27	
R 7-3C		72.2	71.6	0.0	0.0	x	Total	7.60	r11238128.68	3814272.48	16.40	
R 7-4C		72.2	71.6	0.0	0.0	x	Total	7.60	r11238111.97	3814270.98	16.51	
R 7-5C		69.3	68.5	0.0	0.0	x	Total	7.60	r11238105.86	3814263.69	16.45	
R 7-6C		65.0	63.8	0.0	0.0	x	Total	7.60	r11238107.53	3814258.72	16.46	
R 7-7C		60.4	58.6	0.0	0.0	x	Total	7.60	r11238109.36	3814250.46	16.45	
R 7-8C		50.3	49.6	0.0	0.0	x	Total	7.60	r11238117.34	3814245.69	16.42	
R 7-9C		50.2	49.3	0.0	0.0	x	Total	7.60	r11238129.68	3814247.19	16.39	
R 7-10C		55.3	54.7	0.0	0.0	x	Total	7.60	r11238139.98	3814238.42	16.39	
R 7-11C		55.2	54.6	0.0	0.0	x	Total	7.60	r11238132.71	3814238.00	16.40	
R 7-12C		55.0	54.4	0.0	0.0	x	Total	7.60	r11238122.29	3814237.03	16.41	
R 7-13C		58.3	56.5	0.0	0.0	x	Total	7.60	r11238115.68	3814231.37	16.43	
R 7-14C		57.6	55.9	0.0	0.0	x	Total	7.60	r11238117.37	3814222.06	16.42	
R 7-15C		51.8	51.1	0.0	0.0	x	Total	7.60	r11238124.18	3814211.84	16.40	
R 7-16C		63.3	60.0	0.0	0.0	x	Total	7.60	r11238167.78	3814224.98	16.27	
R 7-17C		61.6	58.5	0.0	0.0	x	Total	7.60	r11238165.37	3814240.73	16.37	
R 7-18C		65.7	63.0	0.0	0.0	x	Total	7.60	r11238167.76	3814253.05	16.41	
R 7-19C		67.4	65.7	0.0	0.0	x	Total	7.60	r11238163.26	3814267.75	16.25	
R 8-1C		70.9	70.1	0.0	0.0	x	Total	7.60	r11238095.94	3814262.98	16.56	
R 8-2C		71.0	70.3	0.0	0.0	x	Total	7.60	r11238091.05	3814262.56	16.72	

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)	(m)
R 8-3C			70.8	70.1	0.0	0.0		x	Total	7.60	r	11238082.91	3814260.93	16.98
R 8-4C			71.0	70.2	0.0	0.0		x	Total	7.60	r	11238077.03	3814261.14	17.18
R 8-5C			70.9	70.0	0.0	0.0		x	Total	7.60	r	11238070.78	3814259.57	17.36
R 8-6C			70.5	69.6	0.0	0.0		x	Total	7.60	r	11238063.82	3814257.53	17.51
R 8-7C			71.0	70.2	0.0	0.0		x	Total	7.60	r	11238058.76	3814259.29	17.60
R 8-8C			71.1	70.3	0.0	0.0		x	Total	7.60	r	11238051.34	3814258.62	17.74
R 8-9C			71.0	70.3	0.0	0.0		x	Total	7.60	r	11238044.92	3814258.04	17.86
R 8-10C			71.1	70.3	0.0	0.0		x	Total	7.60	r	11238038.91	3814257.62	17.97
R 8-11C			69.2	68.3	0.0	0.0		x	Total	7.60	r	11238035.70	3814252.75	18.03
R 8-12C			60.4	58.9	0.0	0.0		x	Total	7.60	r	11238036.20	3814245.83	18.03
R 8-13C			66.4	65.2	0.0	0.0		x	Total	7.60	r	11238034.70	3814242.25	18.07
R 8-14C			66.4	65.2	0.0	0.0		x	Total	7.60	r	11238034.12	3814238.16	18.07
R 8-15C			53.6	52.7	0.0	0.0		x	Total	7.60	r	11238037.20	3814235.58	18.00
R 8-16C			50.1	48.5	0.0	0.0		x	Total	7.60	r	11238041.79	3814233.08	17.87
R 8-17C			49.5	48.3	0.0	0.0		x	Total	7.60	r	11238050.79	3814234.66	17.65
R 8-18C			48.5	47.0	0.0	0.0		x	Total	7.60	r	11238073.05	3814235.66	17.08
R 8-19C			49.0	47.1	0.0	0.0		x	Total	7.60	r	11238092.32	3814237.58	16.59
R 8-20C			49.4	47.2	0.0	0.0		x	Total	7.60	r	11238097.48	3814238.25	16.45
R 8-21C			51.5	50.6	0.0	0.0		x	Total	7.60	r	11238099.57	3814242.92	16.44
R 8-22C			51.7	50.8	0.0	0.0		x	Total	7.60	r	11238099.32	3814249.25	16.44
R 8-23C			50.7	50.0	0.0	0.0		x	Total	7.60	r	11238100.15	3814252.50	16.44
R 8-24C			66.5	65.2	0.0	0.0		x	Total	7.60	r	11238100.82	3814257.51	16.44
R2-1C			63.4	61.6	0.0	0.0		x	Total	7.60	r	11237916.87	3814093.05	15.24
R2-2C			63.4	61.6	0.0	0.0		x	Total	7.60	r	11237911.83	3814086.96	15.26
R2-3C			63.8	61.8	0.0	0.0		x	Total	7.60	r	11237907.84	3814085.07	15.25
R2-4C			63.8	61.8	0.0	0.0		x	Total	7.60	r	11237903.85	3814080.45	15.27
R2-5C			62.4	59.8	0.0	0.0		x	Total	7.60	r	11237905.11	3814076.46	15.30
R2-6C			57.5	51.4	0.0	0.0		x	Total	7.60	r	11237911.41	3814071.62	15.15
R2-7C			57.3	52.0	0.0	0.0		x	Total	7.60	r	11237917.71	3814065.53	15.02
R2-8C			57.9	54.5	0.0	0.0		x	Total	7.60	r	11237924.85	3814058.18	15.01
R2-9C			56.8	52.4	0.0	0.0		x	Total	7.60	r	11237931.15	3814054.19	15.02
R2-10C			54.9	48.7	0.0	0.0		x	Total	7.60	r	11237936.41	3814052.93	15.04
R2-11C			58.9	56.7	0.0	0.0		x	Total	7.60	r	11237933.89	3814046.84	14.97
R2-12C			60.4	58.7	0.0	0.0		x	Total	7.60	r	11237929.05	3814041.59	14.89
R2-13C			61.1	59.6	0.0	0.0		x	Total	7.60	r	11237922.96	3814033.40	14.77
R2-14C			61.5	59.8	0.0	0.0		x	Total	7.60	r	11237915.40	3814023.32	14.67
R2-15C			61.5	59.9	0.0	0.0		x	Total	7.60	r	11237910.36	3814016.60	14.66
R2-16C			61.6	60.0	0.0	0.0		x	Total	7.60	r	11237904.69	3814008.41	14.64
R2-17C			58.4	54.9	0.0	0.0		x	Total	7.60	r	11237905.53	3814001.90	14.58
R2-18C			56.9	52.2	0.0	0.0		x	Total	7.60	r	11237908.89	3813998.96	14.53
R2-19C			56.0	51.0	0.0	0.0		x	Total	7.60	r	11237914.35	3813994.34	14.48
R2-20C			55.2	49.3	0.0	0.0		x	Total	7.60	r	11237917.92	3813991.82	14.44
R2-21C			46.7	46.4	0.0	0.0		x	Total	7.60	r	11237925.48	3813995.60	14.35
R2-22C			47.1	46.7	0.0	0.0		x	Total	7.60	r	11237935.78	3814009.04	14.55
R2-23C			47.4	47.2	0.0	0.0		x	Total	7.60	r	11237947.96	3814024.79	14.78
R2-24C			48.2	47.8	0.0	0.0		x	Total	7.60	r	11237960.56	3814040.96	15.02
R2-25C			57.6	56.4	0.0	0.0		x	Total	7.60	r	11237962.45	3814056.29	15.18
R2-26C			60.3	59.0	0.0	0.0		x	Total	7.60	r	11237951.11	3814068.68	15.17
R2-27C			60.1	58.8	0.0	0.0		x	Total	7.60	r	11237956.15	3814064.69	15.18
R2-28C			59.9	58.8	0.0	0.0		x	Total	7.60	r	11237941.24	3814076.04	15.18
R2-29C			61.1	59.9	0.0	0.0		x	Total	7.60	r	11237935.57	3814081.92	15.19
R2-30C			62.3	61.0	0.0	0.0		x	Total	7.60	r	11237927.16	3814088.22	15.19
R6-1C			57.5	56.5	0.0	0.0		x	Total	7.60	r	11238102.76	3814182.07	16.76
R6-2C			57.6	56.5	0.0	0.0		x	Total	7.60	r	11238087.19	3814180.63	16.95
R6-3C			59.7	58.2	0.0	0.0		x	Total	7.60	r	11238054.90	3814177.76	17.20
R6-4C			60.1	58.5	0.0	0.0		x	Total	7.60	r	11238037.24	3814169.05	16.98
R6-5C			59.5	58.1	0.0	0.0		x	Total	7.60	r	11238038.29	3814157.89	16.82
R6-6C			49.2	46.3	0.0	0.0		x	Total	7.60	r	11238050.67	3814151.80	16.67
R1-1C			64.5	61.4	0.0	0.0		x	Total	7.60	r	11237833.27	3813996.54	14.93
R1-2C			64.4	61.2	0.0	0.0		x	Total	7.60	r	11237824.45	3813983.73	15.01
R1-3C			60.4	48.8	0.0	0.0		x	Total	7.60	r	11237833.27	3813973.23	15.15
R1-4C			56.8	48.8	0.0	0.0		x	Total	7.60	r	11237867.71	3813948.03	15.10
R1-5C			47.2	46.4	0.0	0.0		x	Total	7.60	r	11237883.04	3813953.70	14.98

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	X	Y	Z	
			(dBA)	(dBA)	(dBA)	(dBA)								
R1-6C			61.4	59.9	0.0	0.0		x	Total	7.60	r11237889.97	3813979.95	14.91	
R1-7C			61.8	60.1	0.0	0.0		x	Total	7.60	r11237880.10	3813982.05	14.92	
R1-8C			61.5	60.1	0.0	0.0		x	Total	7.60	r11237872.75	3813973.02	14.99	
R1-9C			62.2	60.4	0.0	0.0		x	Total	7.60	r11237860.99	3813977.22	15.00	
R1-10C			63.5	61.1	0.0	0.0		x	Total	7.60	r11237843.77	3813990.45	14.98	

### Gebietsausweisungen

Name	M.	ID	Type	Persons
				(1/km <sup>2</sup> )

### Hindernisse

#### Schirme

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height	
			left	right		horz.	vert.	Begin	End
					(m)	(m)	(m)	(m)	

#### Häuser

Name	M.	ID	RB	Residents	Absorption	Height
						Begin (m)
			x	0		3.65 r
			x	0		3.65 r
			x	0		6.70 r
			x	0		6.70 r
			x	0		9.75 r
			x	0		9.75 r
			x	0		4.60 r
			x	0		6.70 r
			x	0		9.75 r
			x	0		9.75 r
			x	0		4.60 r
			x	0		9.75 r

#### Bewuchs

Name	M.	ID	Height
			(m)

#### Bebauung

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

### Geometriedaten

#### Geometrie Linienquellen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

#### Geometrie Flächenquellen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Parkplätze

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Straßen

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)		
Los Carneros Road			11237697.29	3813908.86	7.62	7.60		
			11237759.07	3813961.83	10.67	10.70		
			11237782.99	3813989.66	10.67	11.00		
			11237808.40	3814029.18	12.50	12.50		
			11237829.81	3814079.44	12.80	14.00		
			11237845.52	3814131.11	14.33	16.00		
			11237849.30	3814230.44	14.94	18.50		
			11237851.61	3814289.45	16.76	21.30		
			11237854.07	3814329.87	18.29	21.50		
			11237857.43	3814385.23	18.29	18.29		
			11237861.66	3814452.97	16.46	16.46		
US 101 SB Onramp			11237862.91	3814329.11	14.33	21.50		
			11237917.30	3814334.68	14.63	19.00		
			11237998.36	3814343.08	14.63	15.80		
			11238188.34	3814363.72	10.36	12.20		
			11238396.35	3814383.05	9.75	10.40		
US 101 SB Offramp			11237577.38	3814297.86	12.19	12.19		
			11237682.81	3814309.20	14.33	14.33		
			11237760.93	3814317.60	14.33	18.00		
			11237844.93	3814327.68	14.00	21.50		
US 101 SB			11237580.17	3814319.88	12.80	12.80		
			11237676.48	3814338.40	12.50	12.50		
			11237752.15	3814353.33	12.19	12.19		
			11237789.19	3814359.46	12.19	12.19		
			11237847.26	3814365.39	12.50	12.50		
US 101 SB			11237865.59	3814369.12	12.50	12.50		
			11237906.40	3814372.39	11.28	11.28		
			11237997.12	3814376.59	10.97	10.97		
			11238183.92	3814379.77	10.97	10.97		
			11238395.93	3814392.44	10.36	10.36		
US 101 NB			11238394.07	3814413.64	9.14	9.14		
			11238181.55	3814403.56	9.75	9.75		
			11237995.91	3814396.84	11.28	11.28		
			11237901.83	3814389.28	10.67	10.67		
			11237866.49	3814386.68	12.50	12.50		
US 101 NB			11237847.87	3814383.91	12.50	12.50		
			11237786.75	3814375.84	12.19	12.19		
			11237748.95	3814369.96	12.19	12.19		
			11237674.19	3814356.52	13.11	13.11		
			11237577.59	3814337.20	12.50	12.50		

### Geometrie Schienen

Name	Height		Coordinates					
	Begin	End	x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		
UPRR	12.50	a	12.50	a	11237570.03	3814262.43	12.50	1.88
					11237838.85	3814285.11	12.50	11.38
UPRR	12.50	a	8.53	a	11237861.86	3814287.47	12.50	11.58
					11238395.28	3814332.85	8.53	0.89

### Geometrie Schirme

Name	M.	ID	Absorption		Z-Ext. (m)	Cantilever		Height		Coordinates			
			left	right		horz. (m)	vert. (m)	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)
										11237880.37	3814214.17	14.90	13.10
										11237881.18	3814251.51	14.90	13.10
										11237882.02	3814269.67	13.70	11.90
										11237895.41	3814270.84	13.40	11.60
										11237911.06	3814272.16	12.80	11.00
										11237945.61	3814275.47	12.80	11.00
										11237961.46	3814277.18	12.50	10.70
										11238006.41	3814281.33	12.30	10.50
										11238074.37	3814287.71	11.90	10.10
										11238128.78	3814292.54	10.95	9.15
										11238169.64	3814296.43	10.34	8.54
										11238187.40	3814297.69	10.95	9.15

### Geometrie Häuser

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x (m)	y (m)	z (m)	Ground (m)
				x	0	3.65 r	11238188.92	3814297.40	12.80	9.15
							11238194.21	3814297.14	12.80	9.21
							11238193.42	3814235.75	12.80	8.41
							11238220.94	3814234.69	12.80	8.50
							11238220.67	3814227.01	12.80	8.34
							11238187.86	3814229.66	12.80	8.27
							11238189.18	3814297.40	12.80	9.15
				x	0	3.65 r	11238198.18	3814176.74	11.11	7.46
							11238200.30	3814224.10	11.11	8.31
							11238237.34	3814223.31	11.11	8.24
							11238236.55	3814196.05	11.11	7.69
							11238223.32	3814196.32	11.11	7.71
							11238222.79	3814175.68	11.11	7.29
				x	0	6.70 r	11237903.99	3814215.91	18.27	11.57
							11237901.32	3814243.25	18.27	11.50
							11237905.31	3814243.57	18.27	11.46
							11237905.26	3814244.72	18.27	11.46
							11237909.41	3814244.98	18.27	11.42
							11237909.83	3814239.79	18.27	11.40
							11237911.82	3814239.94	18.27	11.38
							11237911.77	3814242.25	18.27	11.39
							11237923.27	3814243.15	18.27	11.27
							11237923.43	3814240.99	18.27	11.26
							11237927.52	3814241.41	18.27	11.22
							11237927.31	3814243.51	18.27	11.23
							11237939.07	3814244.68	18.27	11.11
							11237939.22	3814242.53	18.27	11.10
							11237941.17	3814242.68	18.27	11.08
							11237940.69	3814247.83	18.27	11.10
							11237944.63	3814248.15	18.27	11.05
							11237944.74	3814246.83	18.27	11.05
							11237948.73	3814247.15	18.27	11.01
							11237951.25	3814219.58	18.27	11.00
							11237947.26	3814219.27	18.27	11.00
							11237947.34	3814218.14	18.27	11.00
							11237943.38	3814217.89	18.27	11.00
							11237942.88	3814222.85	18.27	11.01
							11237941.01	3814222.81	18.27	11.03
							11237941.13	3814220.39	18.27	11.03
							11237913.61	3814218.28	18.27	11.40
							11237913.48	3814220.39	18.27	11.37
							11237911.36	3814220.19	18.27	11.41
							11237911.89	3814215.23	18.27	11.47
							11237907.92	3814214.84	18.27	11.53
							11237907.79	3814215.89	18.27	11.52

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237903.82	3814215.50	18.27	11.57
			x	0		6.70	11237960.36	3814248.60	17.64	10.94
							11237964.18	3814248.92	17.64	10.94
							11237964.17	3814249.98	17.64	10.92
							11237968.27	3814250.40	17.64	10.92
							11237968.69	3814245.25	17.64	10.97
							11237970.58	3814245.46	17.64	10.96
							11237970.37	3814247.66	17.64	10.96
							11237982.13	3814248.71	17.64	10.93
							11237982.45	3814246.30	17.64	10.93
							11237986.44	3814246.72	17.64	10.93
							11237986.23	3814249.03	17.64	10.91
							11237997.99	3814249.98	17.64	10.87
							11237998.10	3814247.77	17.64	10.91
							11237999.99	3814247.98	17.64	10.88
							11237999.57	3814253.13	17.64	10.80
							11238004.30	3814253.65	17.64	10.75
							11238004.33	3814252.58	17.64	10.75
							11238007.69	3814252.90	17.64	10.71
							11238010.07	3814225.08	17.64	11.27
							11238006.19	3814224.87	17.64	11.24
							11238006.29	3814223.72	17.64	11.26
							11238002.14	3814223.44	17.64	11.26
							11238001.77	3814228.23	17.64	11.21
							11237999.88	3814228.13	17.64	11.20
							11238000.02	3814226.06	17.64	11.22
							11237972.62	3814223.61	17.64	11.03
							11237972.36	3814225.92	17.64	11.01
							11237970.47	3814225.82	17.64	10.99
							11237971.00	3814220.46	17.64	11.05
							11237967.11	3814219.93	17.64	11.02
							11237966.80	3814221.40	17.64	11.00
							11237962.80	3814220.88	17.64	11.00
			x	0		9.75	11238034.68	3814235.95	20.20	10.45
							11238034.15	3814241.31	20.20	10.48
							11238035.41	3814241.31	20.20	10.45
							11238034.89	3814244.67	20.20	10.46
							11238036.99	3814244.88	20.20	10.42
							11238036.78	3814247.40	20.20	10.42
							11238034.26	3814247.29	20.20	10.46
							11238034.26	3814248.66	20.20	10.45
							11238036.57	3814248.97	20.20	10.42
							11238036.04	3814253.91	20.20	10.43
							11238037.51	3814254.12	20.20	10.40
							11238037.30	3814256.75	20.20	10.40
							11238046.44	3814257.59	20.20	10.23
							11238046.65	3814255.28	20.20	10.23
							11238048.96	3814255.49	20.20	10.18
							11238048.86	3814257.80	20.20	10.18
							11238060.52	3814258.85	20.20	9.97
							11238060.83	3814256.64	20.20	9.96
							11238065.56	3814257.06	20.20	9.87
							11238065.45	3814257.80	20.20	9.88
							11238069.44	3814258.11	20.20	9.78
							11238069.23	3814258.85	20.20	9.79
							11238072.65	3814259.11	20.20	9.71
							11238072.49	3814260.21	20.20	9.72
							11238081.66	3814261.05	20.20	9.43
							11238081.66	3814260.05	20.20	9.42
							11238084.75	3814260.46	20.20	9.32
							11238085.16	3814256.30	20.20	9.30
							11238090.42	3814257.05	20.20	9.13
							11238089.92	3814261.88	20.20	9.16

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238096.58	3814262.38	20.20	8.94
							11238096.75	3814259.05	20.20	8.93
							11238100.34	3814259.38	20.20	8.84
							11238101.09	3814253.71	20.20	8.84
							11238099.67	3814253.54	20.20	8.84
							11238099.92	3814250.54	20.20	8.84
							11238098.84	3814250.54	20.20	8.84
							11238099.00	3814247.71	20.20	8.84
							11238101.42	3814247.96	20.20	8.84
							11238101.25	3814246.21	20.20	8.84
							11238098.84	3814246.04	20.20	8.84
							11238099.25	3814241.12	20.20	8.84
							11238098.42	3814241.12	20.20	8.84
							11238098.50	3814238.70	20.20	8.84
							11238090.33	3814237.95	20.20	9.05
							11238090.33	3814238.70	20.20	9.05
							11238087.16	3814238.54	20.20	9.13
							11238087.33	3814237.37	20.20	9.12
							11238078.16	3814236.45	20.20	9.35
							11238077.99	3814237.37	20.20	9.36
							11238074.66	3814237.12	20.20	9.45
							11238074.74	3814236.04	20.20	9.44
							11238069.91	3814235.79	20.20	9.56
							11238069.82	3814236.79	20.20	9.57
							11238063.74	3814236.12	20.20	9.73
							11238063.74	3814235.16	20.20	9.72
							11238054.52	3814234.22	20.20	9.95
							11238054.48	3814235.37	20.20	9.96
							11238045.56	3814234.62	20.20	10.19
							11238045.56	3814233.62	20.20	10.18
							11238038.48	3814233.12	20.20	10.36
							11238038.14	3814236.12	20.20	10.38
			x	0		9.75 r	11238106.23	3814266.67	18.61	8.86
							11238109.59	3814266.88	18.61	8.88
							11238109.38	3814269.82	18.61	8.89
							11238116.31	3814270.66	18.61	8.90
							11238117.26	3814265.51	18.61	8.88
							11238122.10	3814265.85	18.61	8.84
							11238121.84	3814270.15	18.61	8.85
							11238124.75	3814270.28	18.61	8.83
							11238124.82	3814271.34	18.61	8.83
							11238134.15	3814272.07	18.61	8.76
							11238134.21	3814270.94	18.61	8.75
							11238137.45	3814271.34	18.61	8.73
							11238137.19	3814272.40	18.61	8.73
							11238141.94	3814272.82	18.61	8.69
							11238141.94	3814271.82	18.61	8.69
							11238148.11	3814272.57	18.61	8.64
							11238148.28	3814273.48	18.61	8.64
							11238152.86	3814273.98	18.61	8.61
							11238152.95	3814273.07	18.61	8.60
							11238160.89	3814273.86	18.61	8.58
							11238161.15	3814270.95	18.61	8.61
							11238162.54	3814271.08	18.61	8.61
							11238162.81	3814266.25	18.61	8.66
							11238165.25	3814266.45	18.61	8.66
							11238165.32	3814264.80	18.61	8.68
							11238162.87	3814264.66	18.61	8.68
							11238163.14	3814262.15	18.61	8.70
							11238166.25	3814262.55	18.61	8.71
							11238166.31	3814260.89	18.61	8.72
							11238164.13	3814260.69	18.61	8.72
							11238164.33	3814258.31	18.61	8.75

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
						11238166.64	3814258.51	18.61	8.75	
						11238167.64	3814247.33	18.61	8.82	
						11238167.64	3814246.00	18.61	8.81	
						11238163.72	3814245.67	18.61	8.81	
						11238163.89	3814241.75	18.61	8.78	
						11238164.78	3814241.78	18.61	8.78	
						11238165.04	3814238.54	18.61	8.76	
						11238166.23	3814238.71	18.61	8.76	
						11238166.30	3814237.48	18.61	8.75	
						11238163.76	3814237.28	18.61	8.75	
						11238164.02	3814234.21	18.61	8.72	
						11238166.47	3814234.47	18.61	8.72	
						11238166.66	3814232.95	18.61	8.71	
						11238163.36	3814232.75	18.61	8.71	
						11238163.42	3814229.77	18.61	8.69	
						11238164.61	3814229.77	18.61	8.69	
						11238164.75	3814227.19	18.61	8.67	
						11238167.00	3814227.39	18.61	8.67	
						11238167.59	3814220.78	18.61	8.66	
						11238163.95	3814220.38	18.61	8.62	
						11238164.27	3814217.23	18.61	8.59	
						11238156.28	3814216.81	18.61	8.60	
						11238156.18	3814215.44	18.61	8.59	
						11238151.56	3814214.92	18.61	8.62	
						11238151.45	3814216.18	18.61	8.62	
						11238145.15	3814215.65	18.61	8.65	
						11238145.25	3814214.60	18.61	8.65	
						11238136.01	3814213.87	18.61	8.71	
						11238136.01	3814214.60	18.61	8.71	
						11238132.86	3814214.50	18.61	8.73	
						11238132.54	3814218.38	18.61	8.73	
						11238126.87	3814218.07	18.61	8.77	
						11238127.40	3814213.03	18.61	8.78	
						11238120.78	3814212.50	18.61	8.82	
						11238120.58	3814215.48	18.61	8.81	
						11238117.10	3814215.13	18.61	8.84	
						11238116.49	3814220.84	18.61	8.83	
						11238117.73	3814220.90	18.61	8.82	
						11238117.52	3814223.95	18.61	8.82	
						11238118.78	3814224.05	18.61	8.81	
						11238118.50	3814226.50	18.61	8.81	
						11238116.47	3814226.37	18.61	8.82	
						11238116.05	3814232.93	18.61	8.82	
						11238119.15	3814233.30	18.61	8.80	
						11238118.89	3814236.34	18.61	8.81	
						11238126.87	3814236.97	18.61	8.80	
						11238127.06	3814235.74	18.61	8.79	
						11238130.34	3814236.03	18.61	8.79	
						11238130.23	3814237.29	18.61	8.80	
						11238135.07	3814237.81	18.61	8.79	
						11238135.16	3814236.77	18.61	8.79	
						11238137.87	3814236.95	18.61	8.78	
						11238137.94	3814238.01	18.61	8.79	
						11238142.84	3814238.34	18.61	8.79	
						11238142.93	3814236.78	18.61	8.77	
						11238145.70	3814237.04	18.61	8.77	
						11238145.57	3814238.45	18.61	8.78	
						11238151.09	3814238.63	18.61	8.78	
						11238151.37	3814235.03	18.61	8.75	
						11238154.39	3814235.19	18.61	8.75	
						11238153.66	3814241.91	18.61	8.80	
						11238151.03	3814241.70	18.61	8.80	
						11238150.79	3814244.75	18.61	8.82	



Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238152.42	3814244.85	18.61	8.82
							11238152.29	3814247.48	18.61	8.84
							11238154.60	3814247.79	18.61	8.84
							11238153.93	3814254.00	18.61	8.77
							11238151.03	3814253.68	18.61	8.77
							11238151.24	3814250.00	18.61	8.81
							11238146.30	3814249.58	18.61	8.80
							11238146.24	3814250.82	18.61	8.79
							11238142.93	3814250.81	18.61	8.78
							11238143.05	3814248.84	18.61	8.80
							11238138.53	3814248.42	18.61	8.80
							11238138.53	3814249.37	18.61	8.79
							11238131.60	3814248.74	18.61	8.78
							11238131.49	3814247.79	18.61	8.79
							11238122.57	3814247.06	18.61	8.78
							11238122.57	3814247.79	18.61	8.78
							11238119.62	3814247.69	18.61	8.81
							11238119.83	3814246.43	18.61	8.80
							11238111.96	3814245.80	18.61	8.85
							11238111.75	3814248.53	18.61	8.86
							11238110.17	3814248.63	18.61	8.85
							11238109.75	3814253.57	18.61	8.86
							11238107.44	3814253.47	18.61	8.85
							11238107.23	3814254.94	18.61	8.85
							11238109.65	3814255.15	18.61	8.86
							11238109.44	3814257.67	18.61	8.87
							11238108.17	3814257.77	18.61	8.86
							11238108.17	3814260.61	18.61	8.86
							11238106.70	3814260.61	18.61	8.85
			x	0		4.60	r 11238097.36	3814231.78	13.44	8.84
							11238106.36	3814232.57	13.44	8.84
							11238107.15	3814224.83	13.44	8.84
							11238110.06	3814225.16	13.44	8.84
							11238110.59	3814216.69	13.44	8.84
							11238107.68	3814216.44	13.44	8.84
							11238108.21	3814210.54	13.44	8.84
							11238104.31	3814210.14	13.44	8.84
							11238104.24	3814211.66	13.44	8.84
							11238100.20	3814211.26	13.44	8.84
							11238099.94	3814213.25	13.44	8.84
							11238096.56	3814212.92	13.44	8.84
							11238097.03	3814209.74	13.44	8.84
							11238088.95	3814208.88	13.44	8.87
							11238088.23	3814214.70	13.44	8.86
							11238080.15	3814214.17	13.44	9.07
							11238079.56	3814222.05	13.44	8.98
							11238098.22	3814223.90	13.44	8.84
			x	0		6.70	r 11237905.46	3814205.38	18.34	11.64
							11237914.47	3814205.18	18.34	11.59
							11237914.43	3814204.36	18.34	11.58
							11237923.12	3814203.86	18.34	11.53
							11237923.13	3814204.51	18.34	11.54
							11237932.31	3814203.84	18.34	11.50
							11237932.04	3814199.06	18.34	11.50
							11237932.94	3814199.01	18.34	11.50
							11237932.73	3814195.02	18.34	11.50
							11237927.74	3814195.33	18.34	11.50
							11237927.74	3814193.13	18.34	11.50
							11237929.89	3814192.97	18.34	11.50
							11237929.06	3814180.72	18.34	11.50
							11237926.72	3814181.05	18.34	11.50
							11237926.64	3814176.71	18.34	11.50
							11237928.76	3814176.52	18.34	11.50

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237927.92	3814163.93	18.34	11.50
							11237925.76	3814164.09	18.34	11.50
							11237925.76	3814160.17	18.34	11.50
							11237927.84	3814159.92	18.34	11.50
							11237927.34	3814148.00	18.34	11.50
							11237925.09	3814148.17	18.34	11.50
							11237924.92	3814146.00	18.34	11.50
							11237929.92	3814145.67	18.34	11.50
							11237929.63	3814141.37	18.34	11.50
							11237928.38	3814141.37	18.34	11.50
							11237928.34	3814137.33	18.34	11.50
							11237921.63	3814137.66	18.34	11.51
							11237921.59	3814136.87	18.34	11.52
							11237919.59	3814137.00	18.34	11.52
							11237919.59	3814137.96	18.34	11.52
							11237910.66	3814138.46	18.34	11.55
							11237910.54	3814137.66	18.34	11.55
							11237908.40	3814137.96	18.34	11.56
							11237908.44	3814138.69	18.34	11.55
							11237901.91	3814139.04	18.34	11.58
							11237902.12	3814143.33	18.34	11.55
							11237901.04	3814143.33	18.34	11.56
							11237901.24	3814147.42	18.34	11.53
							11237906.23	3814147.16	18.34	11.52
							11237906.41	3814149.29	18.34	11.50
							11237904.08	3814149.46	18.34	11.51
							11237904.83	3814161.72	18.34	11.50
							11237907.25	3814161.55	18.34	11.50
							11237907.41	3814165.64	18.34	11.50
							11237905.16	3814165.89	18.34	11.50
							11237906.00	3814177.97	18.34	11.50
							11237907.83	3814177.81	18.34	11.50
							11237908.08	3814182.06	18.34	11.50
							11237906.08	3814182.48	18.34	11.50
							11237906.87	3814194.52	18.34	11.52
							11237909.12	3814194.26	18.34	11.50
							11237909.19	3814196.57	18.34	11.53
							11237904.19	3814196.84	18.34	11.55
							11237904.45	3814201.12	18.34	11.60
							11237905.35	3814201.07	18.34	11.60
		x		0		9.75 r	11238039.03	3814154.34	18.89	9.14
							11238038.54	3814160.90	18.89	9.27
							11238040.69	3814161.10	18.89	9.28
							11238040.44	3814163.68	18.89	9.32
							11238039.44	3814163.68	18.89	9.31
							11238039.28	3814166.27	18.89	9.35
							11238037.86	3814166.27	18.89	9.34
							11238037.61	3814172.19	18.89	9.43
							11238040.94	3814172.44	18.89	9.45
							11238040.69	3814175.94	18.89	9.50
							11238047.20	3814176.27	18.89	9.55
							11238047.61	3814171.52	18.89	9.48
							11238052.53	3814171.94	18.89	9.48
							11238052.12	3814176.94	18.89	9.58
							11238057.20	3814177.35	18.89	9.59
							11238057.28	3814176.52	18.89	9.57
							11238063.29	3814176.94	18.89	9.55
							11238063.20	3814178.02	18.89	9.57
							11238067.87	3814178.52	18.89	9.55
							11238068.29	3814176.06	18.89	9.50
							11238073.42	3814176.44	18.89	9.48
							11238073.29	3814177.35	18.89	9.50
							11238077.13	3814177.77	18.89	9.45

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238077.09	3814178.52	18.89	9.46
							11238080.05	3814178.77	18.89	9.42
							11238079.96	3814179.77	18.89	9.43
							11238089.63	3814180.36	18.89	9.31
							11238089.80	3814179.48	18.89	9.30
							11238092.47	3814179.69	18.89	9.27
							11238092.89	3814176.02	18.89	9.23
							11238098.22	3814176.52	18.89	9.16
							11238097.64	3814181.11	18.89	9.21
							11238104.47	3814181.69	18.89	9.13
							11238104.61	3814178.58	18.89	9.10
							11238108.51	3814178.91	18.89	9.06
							11238108.97	3814173.35	18.89	9.01
							11238107.44	3814173.24	18.89	9.01
							11238108.78	3814158.07	18.89	8.86
							11238042.87	3814151.71	18.89	9.08
							11238042.54	3814154.56	18.89	9.14
			x	0		9.75	11237904.07	3814078.49	17.44	7.69
							11237909.95	3814086.21	17.44	7.65
							11237912.05	3814084.16	17.44	7.65
							11237913.15	3814085.47	17.44	7.65
							11237912.42	3814086.21	17.44	7.67
							11237917.51	3814092.72	17.44	7.64
							11237924.66	3814086.79	17.44	7.57
							11237926.07	3814088.52	17.44	7.59
							11237928.99	3814085.74	17.44	7.58
							11237929.44	3814086.26	17.44	7.59
							11237937.05	3814079.91	17.44	7.58
							11237936.21	3814078.86	17.44	7.57
							11237938.31	3814077.12	17.44	7.57
							11237938.68	3814077.60	17.44	7.58
							11237942.20	3814074.81	17.44	7.57
							11237941.25	3814073.66	17.44	7.56
							11237946.14	3814069.72	17.44	7.56
							11237946.77	3814070.35	17.44	7.57
							11237948.66	3814068.56	17.44	7.56
							11237949.60	3814069.46	17.44	7.57
							11237957.06	3814063.26	17.44	7.58
							11237956.22	3814062.21	17.44	7.58
							11237958.47	3814060.48	17.44	7.58
							11237955.38	3814056.64	17.44	7.55
							11237956.54	3814055.59	17.44	7.55
							11237958.64	3814057.90	17.44	7.57
							11237965.99	3814052.23	17.44	7.57
							11237964.24	3814049.73	17.44	7.54
							11237965.57	3814048.56	17.44	7.53
							11237920.72	3813989.94	17.44	6.81
							11237912.53	3813997.09	17.44	6.88
							11237914.31	3813999.19	17.44	6.88
							11237913.05	3814000.03	17.44	6.90
							11237911.37	3813997.82	17.44	6.90
							11237903.81	3814004.23	17.44	7.02
							11237905.59	3814006.44	17.44	7.02
							11237904.33	3814007.17	17.44	7.04
							11237907.69	3814011.16	17.44	7.03
							11237909.27	3814009.80	17.44	7.01
							11237910.95	3814012.00	17.44	7.01
							11237910.00	3814012.74	17.44	7.03
							11237911.90	3814014.94	17.44	7.03
							11237910.85	3814015.89	17.44	7.04
							11237917.15	3814023.66	17.44	7.06
							11237918.30	3814022.82	17.44	7.04
							11237921.67	3814027.13	17.44	7.09

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237920.51	3814028.08	17.44	7.10
							11237926.39	3814036.27	17.44	7.22
							11237927.55	3814035.32	17.44	7.21
							11237930.70	3814039.32	17.44	7.27
							11237929.33	3814040.58	17.44	7.28
							11237932.51	3814044.55	17.44	7.34
							11237933.24	3814044.08	17.44	7.34
							11237935.69	3814047.39	17.44	7.39
							11237937.14	3814045.67	17.44	7.37
							11237938.00	3814046.60	17.44	7.39
							11237938.67	3814046.10	17.44	7.38
							11237941.09	3814049.27	17.44	7.43
							11237942.17	3814049.35	17.44	7.44
							11237941.92	3814050.18	17.44	7.44
							11237942.09	3814051.85	17.44	7.46
							11237939.17	3814053.60	17.44	7.46
							11237938.42	3814053.18	17.44	7.46
							11237935.42	3814055.77	17.44	7.45
							11237934.75	3814055.02	17.44	7.44
							11237934.08	3814055.52	17.44	7.44
							11237932.58	3814053.52	17.44	7.43
							11237929.00	3814056.35	17.44	7.42
							11237929.75	3814057.27	17.44	7.43
							11237927.91	3814058.69	17.44	7.43
							11237927.16	3814057.35	17.44	7.42
							11237919.33	3814063.94	17.44	7.42
							11237920.08	3814064.77	17.44	7.43
							11237916.03	3814068.10	17.44	7.43
							11237915.17	3814067.34	17.44	7.44
							11237914.16	3814068.44	17.44	7.47
							11237915.82	3814070.11	17.44	7.45
							11237914.10	3814071.65	17.44	7.50
							11237913.49	3814070.86	17.44	7.50
							11237909.55	3814074.43	17.44	7.61
							11237909.97	3814074.85	17.44	7.60
							11237907.93	3814076.62	17.44	7.66
							11237906.24	3814074.64	17.44	7.67
							11237905.33	3814075.52	17.44	7.69
							11237906.14	3814076.48	17.44	7.69
		x		0		4.60 r	11237881.78	3814008.79	11.88	7.28
							11237891.07	3814025.96	11.88	7.31
							11237893.17	3814024.65	11.88	7.28
							11237893.49	3814025.39	11.88	7.28
							11237895.54	3814024.13	11.88	7.25
							11237895.22	3814023.60	11.88	7.25
							11237897.43	3814022.39	11.88	7.22
							11237899.74	3814021.08	11.88	7.19
							11237895.70	3814013.52	11.88	7.17
							11237898.69	3814011.78	11.88	7.13
							11237895.49	3814005.48	11.88	7.11
							11237897.74	3814004.22	11.88	7.08
							11237895.07	3813999.55	11.88	7.15
							11237893.17	3814000.70	11.88	7.17
							11237892.65	3813999.81	11.88	7.18
							11237891.39	3814000.91	11.88	7.19
							11237890.50	3813999.28	11.88	7.23
							11237887.71	3814001.23	11.88	7.25
							11237888.34	3814002.59	11.88	7.23
							11237886.92	3814003.38	11.88	7.24
							11237887.34	3814004.11	11.88	7.23
							11237883.93	3814006.11	11.88	7.27
							11237884.56	3814007.11	11.88	7.25
		x		0		9.75 r	11237824.66	3813980.79	17.23	7.48

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x (m)	y (m)	z (m)	Ground (m)
							11237875.27	3813944.25	17.23	7.41
							11237897.74	3813973.02	17.23	7.33
							11237883.25	3813983.52	17.23	7.31
							11237871.49	3813968.61	17.23	7.42
							11237835.16	3813995.91	17.23	7.33

### Geometrie Höhenlinien

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11237871.28	3814268.78	13.40
						11237882.03	3814269.78	11.90
						11237895.54	3814270.95	11.60
						11237910.79	3814272.20	11.00
						11237946.38	3814275.70	11.00
						11237960.87	3814277.35	10.70
						11238006.05	3814281.45	10.50
						11238074.42	3814287.97	10.10
						11238128.34	3814292.90	9.15
						11238169.52	3814296.90	8.54
						11238187.85	3814298.40	9.15
						11238186.80	3814204.20	7.93
						11237865.11	3814280.70	12.20
						11237919.09	3814284.91	11.00
						11238073.25	3814299.82	11.00
						11238250.89	3814315.71	10.10
						11237881.92	3814269.56	11.90
						11237880.84	3814250.05	13.10
						11237880.31	3814214.13	13.10
						11237879.47	3814200.69	13.40
						11237878.61	3814185.47	13.70
						11237876.44	3814158.13	12.80
						11237869.11	3814116.46	13.40
						11237862.61	3814092.28	14.90
						11237859.87	3814081.36	14.00
						11237854.83	3814065.92	13.70
						11237846.22	3814043.24	12.30
						11237832.15	3814014.88	11.90
						11237818.29	3813991.15	10.80
						11237902.99	3814212.44	11.60
						11237901.21	3814224.35	11.50
						11237900.28	3814243.40	11.50
						11237902.00	3814246.57	11.50
						11237950.17	3814249.75	11.00
						11237953.34	3814243.13	11.00
						11237958.77	3814244.06	11.00
						11237960.35	3814251.21	10.90
						11237989.86	3814253.46	10.90
						11238007.73	3814255.18	10.70
						11238009.71	3814251.60	10.70
						11238012.09	3814224.48	11.30
						11238004.75	3814221.37	11.30
						11237962.54	3814218.13	11.00
						11237942.76	3814216.34	11.00
						11237905.17	3814212.56	11.60
						11238034.49	3814231.70	10.40
						11238032.99	3814240.04	10.50
						11238032.90	3814255.29	10.40
						11238037.07	3814258.71	10.40
						11238071.50	3814261.46	9.76
						11238099.75	3814264.05	8.84
						11238103.51	3814259.21	8.84

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11238102.92	3814241.21	8.84
						11238097.59	3814236.29	8.84
						11238036.24	3814231.12	10.40
						11238112.56	3814239.62	8.84
						11238108.46	3814246.89	8.84
						11238105.41	3814257.35	8.84
						11238103.30	3814270.71	8.84
						11238114.15	3814274.15	8.93
						11238162.18	3814277.99	8.54
						11238169.19	3814272.83	8.54
						11238172.37	3814250.73	8.84
						11238172.50	3814218.98	8.84
						11238164.30	3814210.64	8.54
						11238121.56	3814208.39	8.84
						11238114.94	3814217.25	8.84
						11238112.16	3814239.35	8.84
						11238112.72	3814207.99	8.84
						11238091.71	3814201.80	8.84
						11238077.95	3814210.62	9.15
						11238074.07	3814220.91	8.99
						11238085.10	3814231.21	8.84
						11238099.06	3814234.46	8.84
						11238035.65	3814154.34	9.15
						11238032.74	3814175.25	9.45
						11238059.21	3814185.97	9.76
						11238107.77	3814188.61	9.15
						11238122.06	3814164.66	9.15
						11238120.07	3814155.53	9.15
						11237903.76	3814209.71	11.70
						11237902.44	3814191.06	11.50
						11237901.25	3814153.21	11.50
						11237899.92	3814136.14	11.60
						11237930.89	3814133.89	11.50
						11237935.25	3814206.67	11.50
						11237933.93	3814132.97	11.50
						11237963.18	3814143.95	11.00
						11237993.61	3814171.60	9.45
						11238023.78	3814173.72	9.76
						11237898.20	3814133.45	11.00
						11237897.36	3814121.11	8.54
						11237893.03	3814100.94	7.62
						11237880.03	3814067.93	7.62
						11237861.35	3814016.74	7.62
						11237844.60	3814008.66	7.32
						11237824.93	3813996.32	7.32
						11237916.25	3814099.08	7.93
						11237901.43	3814082.14	7.62
						11237900.90	3814072.35	7.74
						11237912.78	3814050.56	7.32
						11237892.08	3814029.08	7.32
						11237877.91	3814010.91	7.32
						11237871.24	3813998.24	7.26
						11237854.43	3813994.25	7.32
						11237831.96	3813999.08	7.30
						11237821.24	3813984.16	7.32
						11237825.75	3813978.00	7.56
						11237860.61	3813946.91	7.56
						11237881.20	3813937.25	7.32
						11237900.52	3813973.37	7.32
						11237925.85	3813991.70	6.71
						11237971.28	3814054.17	7.62
						11237957.78	3814072.04	7.62
						11237921.26	3814097.71	7.62

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11237984.06	3814104.64	11.30
						11238018.30	3814121.86	10.40
						11238056.65	3814140.87	8.84
						11238109.00	3814156.21	8.84

### Geometrie Bruchkanten

Name	M.	ID	Coordinates	
			x (m)	y (m)

# Bericht (Cumltv plus Prj First Floor Rcvrs\_051514.cna)

Gruppentabelle Tag und Nacht

Name	Expression	R 7-1A		R 7-2A		R 7-3A		R 7-4A		R 7-5A		R 7-6A		R 7-7A		R 7-8A		R 7-9A	
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night

Source		R 7-1A		R 7-2A		R 7-3A		R 7-4A		R 7-5A		R 7-6A		R 7-7A		R 7-8A	
Name	M. ID	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Los Carneros Road												4.6		18.8		33.2	
US 101 SB Onramp		44.3		44.6		44.6		47.0		49.3	-84.7	47.0	-87.2	42.6		20.1	
US 101 SB Offramp																-8.0	
US 101 SB										38.7		36.4		22.1		11.6	
US 101 SB		57.2	-87.4	57.0	-87.6	56.7		55.9		51.7		49.0		44.5		28.3	
US 101 NB		53.0		53.3		53.0		52.4		49.2		46.6		42.3		26.3	
US 101 NB										36.3		37.7		21.1		10.6	
UPRR		49.5	49.5	49.9	49.9	50.3	50.3	50.8	50.8	51.1	51.1	31.8	31.8	32.7	32.7	31.0	31.0
UPRR		65.2	65.2	65.0	65.0	64.8	64.8	64.2	64.2	61.0	61.0	57.5	57.5	52.3	52.3	43.0	43.0

## Schallquellen

### Punktquellen

Name	M.	ID	Result. PWL			Lw / Li		Correction			Sound Reduction		Attenuation	Operating Time			K0
			Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)	Special (min)	

### Linienquellen

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Flächenquellen

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Flächenquellen vertikal

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Schienen

Name	M.	ID	Lm,E		Train Class	Add.Level				Vmax
			Day (dBA)	Night (dBA)		Dfb (dB)	Dbr (dB)	Dbü (dB)	Dra (dB)	
UPRR			85.0	85.0						
UPRR			78.0	78.0						



### Zugklassen

Name	M. ID	Lm,E		Train Class										Add.Level				Vmax	
		Day	Night	Type	p	Number of Trains			v	l	Dfz	Dae	Lm,E,i (dB)		Dfb	Dbr	Dbü		Dra
		(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night	(dB)	(dB)	(dB)		(dB)
UPRR		85.0	85.0																
UPRR		78.0	78.0																

Name	Lm,E		Train Class											
	Day	Night	Type	p	Number of Trains			v	l	Dfz	Dae	Lm,E,i (dB)		
	(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night	(dB)

### Parkplätze

Name	M. ID	Type	Lwa			Event Data						Penalty Type		Penalty Surface		A
			Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ			Kpa	Type	Kstro	Surface	
			(dBA)	(dBA)	(dBA)				Day	Special	Night	(dB)		(dB)		

### Strassen

Name	M. ID	Lme			Count Data		exact Count Data						Speed Limit		SCS Dist.	Dsc (c)
		Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto	Truck		
		(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(km/h)	(km/h)		
Los Carneros Road		70.2	0.0	0.0			3333.0	0.0	0.0	5.0	0.0	0.0	72		RQ 20	
US 101 SB Onramp		66.2	0.0	0.0			1339.0	0.0	0.0	5.0	0.0	0.0	72		RQ 12	
US 101 SB Offramp		61.8	0.0	0.0			190.0	0.0	0.0	5.0	0.0	0.0	100		RQ 12	
US 101 SB		77.0	0.0	0.0			4925.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 SB		77.0	0.0	0.0			4925.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 NB		76.2	0.0	0.0			4099.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 NB		76.2	0.0	0.0			4099.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	

### Ampeln

Name	M. ID	Active			Height	Coordinates		
		Day	Evening	Night	Begin	X	Y	Z
					(m)	(m)	(m)	(m)

### Immissionspunkte

Name	M. ID	Level Lr		Limit. Value		Land Use			Height (m)	Coordinates		
		Day	Night	Day	Night	Type	Auto	Noise Type		X	Y	Z
		(dBA)	(dBA)	(dBA)	(dBA)					(m)	(m)	(m)
R 7-1A		66.2	65.3	0.0	0.0	x	Total	1.50	r	11238158.88	3814274.45	10.07
R 7-2A		66.0	65.1	0.0	0.0	x	Total	1.50	r	11238145.19	3814273.08	10.17
R 7-3A		65.8	64.9	0.0	0.0	x	Total	1.50	r	11238128.68	3814272.48	10.30
R 7-4A		65.3	64.4	0.0	0.0	x	Total	1.50	r	11238111.97	3814270.98	10.41
R 7-5A		62.3	61.4	0.0	0.0	x	Total	1.50	r	11238105.86	3814263.69	10.35
R 7-6A		58.8	57.6	0.0	0.0	x	Total	1.50	r	11238107.53	3814258.72	10.36
R 7-7A		53.7	52.4	0.0	0.0	x	Total	1.50	r	11238109.36	3814250.46	10.35
R 7-8A		43.9	43.3	0.0	0.0	x	Total	1.50	r	11238117.34	3814245.69	10.32
R 7-9A		43.9	43.2	0.0	0.0	x	Total	1.50	r	11238129.68	3814247.19	10.29
R 7-10A		48.2	47.6	0.0	0.0	x	Total	1.50	r	11238139.98	3814238.42	10.29
R 7-11A		48.2	47.5	0.0	0.0	x	Total	1.50	r	11238132.71	3814238.00	10.30
R 7-12A		48.2	47.3	0.0	0.0	x	Total	1.50	r	11238122.29	3814237.03	10.31
R 7-13A		53.0	51.5	0.0	0.0	x	Total	1.50	r	11238115.68	3814231.37	10.33
R 7-14A		52.4	50.8	0.0	0.0	x	Total	1.50	r	11238117.37	3814222.06	10.32
R 7-15A		45.3	44.8	0.0	0.0	x	Total	1.50	r	11238124.18	3814211.84	10.30
R 7-16A		58.4	56.4	0.0	0.0	x	Total	1.50	r	11238167.78	3814224.98	10.17
R 7-17A		53.7	52.8	0.0	0.0	x	Total	1.50	r	11238165.37	3814240.73	10.27
R 7-18A		62.1	59.8	0.0	0.0	x	Total	1.50	r	11238167.76	3814253.05	10.31
R 7-19A		63.3	61.8	0.0	0.0	x	Total	1.50	r	11238163.26	3814267.75	10.15
R 8-1A		64.4	63.4	0.0	0.0	x	Total	1.50	r	11238095.94	3814262.98	10.46
R 8-2A		64.6	63.6	0.0	0.0	x	Total	1.50	r	11238091.05	3814262.56	10.62

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height (m)	Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type		X (m)	Y (m)	Z (m)
			(dBA)	(dBA)	(dBA)	(dBA)							
R 8-3A			64.5	63.4	0.0	0.0	x	Total	1.50	r11238082.91	3814260.93	10.88	
R 8-4A			64.9	63.9	0.0	0.0	x	Total	1.50	r11238077.03	3814261.14	11.08	
R 8-5A			64.9	63.8	0.0	0.0	x	Total	1.50	r11238070.78	3814259.57	11.26	
R 8-6A			64.6	63.3	0.0	0.0	x	Total	1.50	r11238063.82	3814257.53	11.41	
R 8-7A			65.2	64.1	0.0	0.0	x	Total	1.50	r11238058.76	3814259.29	11.50	
R 8-8A			65.3	64.2	0.0	0.0	x	Total	1.50	r11238051.34	3814258.62	11.64	
R 8-9A			65.5	64.4	0.0	0.0	x	Total	1.50	r11238044.92	3814258.04	11.76	
R 8-10A			65.6	64.5	0.0	0.0	x	Total	1.50	r11238038.91	3814257.62	11.87	
R 8-11A			63.8	62.7	0.0	0.0	x	Total	1.50	r11238035.70	3814252.75	11.93	
R 8-12A			56.4	54.7	0.0	0.0	x	Total	1.50	r11238036.20	3814245.83	11.93	
R 8-13A			61.5	60.1	0.0	0.0	x	Total	1.50	r11238034.70	3814242.25	11.97	
R 8-14A			61.7	60.0	0.0	0.0	x	Total	1.50	r11238034.12	3814238.16	11.97	
R 8-15A			46.3	45.5	0.0	0.0	x	Total	1.50	r11238037.20	3814235.58	11.90	
R 8-16A			44.2	42.7	0.0	0.0	x	Total	1.50	r11238041.79	3814233.08	11.77	
R 8-17A			44.2	42.8	0.0	0.0	x	Total	1.50	r11238050.79	3814234.66	11.55	
R 8-18A			43.9	42.3	0.0	0.0	x	Total	1.50	r11238073.05	3814235.66	10.98	
R 8-19A			44.1	42.3	0.0	0.0	x	Total	1.50	r11238092.32	3814237.58	10.49	
R 8-20A			45.2	42.3	0.0	0.0	x	Total	1.50	r11238097.48	3814238.25	10.35	
R 8-21A			45.1	44.3	0.0	0.0	x	Total	1.50	r11238099.57	3814242.92	10.34	
R 8-22A			45.3	44.5	0.0	0.0	x	Total	1.50	r11238099.32	3814249.25	10.34	
R 8-23A			44.6	44.1	0.0	0.0	x	Total	1.50	r11238100.15	3814252.50	10.34	
R 8-24A			60.2	59.0	0.0	0.0	x	Total	1.50	r11238100.82	3814257.51	10.34	
R 5-1A			65.5	64.3	0.0	0.0	x	Total	1.50	r11238006.18	3814253.15	12.23	
R 5-2A			66.0	64.9	0.0	0.0	x	Total	1.50	r11238001.34	3814253.81	12.28	
R 5-3A			65.6	64.5	0.0	0.0	x	Total	1.50	r11237996.01	3814250.31	12.38	
R 5-4A			66.0	64.8	0.0	0.0	x	Total	1.50	r11237988.02	3814249.60	12.42	
R 5-5A			64.4	63.0	0.0	0.0	x	Total	1.50	r11237984.83	3814247.14	12.42	
R 5-6A			65.9	64.7	0.0	0.0	x	Total	1.50	r11237979.50	3814249.06	12.43	
R 5-7A			65.3	64.1	0.0	0.0	x	Total	1.50	r11237972.41	3814248.34	12.45	
R 5-8A			66.0	65.0	0.0	0.0	x	Total	1.50	r11237966.91	3814250.73	12.41	
R 5-9A			65.8	64.8	0.0	0.0	x	Total	1.50	r11237962.02	3814249.08	12.43	
R 5-10A			63.1	61.7	0.0	0.0	x	Total	1.50	r11237960.24	3814244.31	12.50	
R 5-11A			59.9	58.5	0.0	0.0	x	Total	1.50	r11237961.24	3814232.50	12.50	
R 5-12A			58.5	56.8	0.0	0.0	x	Total	1.50	r11237962.10	3814224.53	12.50	
R 5-13A			47.6	45.2	0.0	0.0	x	Total	1.50	r11237965.48	3814220.85	12.50	
R 5-14A			48.2	44.8	0.0	0.0	x	Total	1.50	r11237969.18	3814220.11	12.53	
R 5-15A			46.3	45.3	0.0	0.0	x	Total	1.50	r11237984.40	3814224.30	12.62	
R 5-16A			47.3	44.9	0.0	0.0	x	Total	1.50	r11238003.88	3814223.39	12.77	
R 5-17A			46.4	45.4	0.0	0.0	x	Total	1.50	r11238008.63	3814224.56	12.77	
R 5-18A			62.3	59.2	0.0	0.0	x	Total	1.50	r11238010.32	3814229.42	12.68	
R 5-19A			62.8	60.1	0.0	0.0	x	Total	1.50	r11238009.29	3814238.06	12.49	
R 5-20A			63.6	61.6	0.0	0.0	x	Total	1.50	r11238008.49	3814249.18	12.26	
R4-1A			62.6	61.1	0.0	0.0	x	Total	1.50	r11237949.84	3814242.00	12.50	
R4-2A			65.7	64.7	0.0	0.0	x	Total	1.50	r11237947.43	3814247.77	12.52	
R4-3A			66.0	65.0	0.0	0.0	x	Total	1.50	r11237941.96	3814248.40	12.58	
R4-4A			65.7	64.5	0.0	0.0	x	Total	1.50	r11237937.34	3814245.25	12.62	
R4-5A			66.0	64.7	0.0	0.0	x	Total	1.50	r11237929.36	3814244.20	12.71	
R4-6A			64.6	63.2	0.0	0.0	x	Total	1.50	r11237924.74	3814241.89	12.75	
R4-7A			66.0	64.7	0.0	0.0	x	Total	1.50	r11237921.16	3814243.89	12.79	
R4-8A			65.3	63.9	0.0	0.0	x	Total	1.50	r11237913.18	3814243.26	12.87	
R4-9A			66.0	64.7	0.0	0.0	x	Total	1.50	r11237907.93	3814245.36	12.93	
R4-10A			65.8	64.4	0.0	0.0	x	Total	1.50	r11237903.22	3814243.82	12.98	
R4-11A			63.7	61.4	0.0	0.0	x	Total	1.50	r11237901.39	3814239.15	13.00	
R4-12A			63.4	61.3	0.0	0.0	x	Total	1.50	r11237901.89	3814232.81	13.00	
R4-13A			63.3	61.2	0.0	0.0	x	Total	1.50	r11237902.64	3814226.72	12.98	
R4-14A			63.3	61.3	0.0	0.0	x	Total	1.50	r11237903.14	3814220.22	13.03	
R4-15A			55.0	46.3	0.0	0.0	x	Total	1.50	r11237905.89	3814215.30	13.05	
R4-16A			54.7	46.1	0.0	0.0	x	Total	1.50	r11237910.23	3814214.63	13.00	
R4-17A			49.6	45.6	0.0	0.0	x	Total	1.50	r11237915.31	3814218.22	12.88	
R4-18A			50.3	45.3	0.0	0.0	x	Total	1.50	r11237923.65	3814218.89	12.75	
R4-19A			49.7	45.2	0.0	0.0	x	Total	1.50	r11237931.41	3814219.39	12.64	
R4-20A			49.2	44.8	0.0	0.0	x	Total	1.50	r11237938.41	3814220.14	12.55	
R4-21A			49.1	44.6	0.0	0.0	x	Total	1.50	r11237944.50	3814217.80	12.50	

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	X (m)	Y (m)	Z (m)	
			(dBA)	(dBA)	(dBA)	(dBA)								
R4-22A			46.4	44.8	0.0	0.0		x	Total	1.50	r11237949.25	3814219.14	12.50	
R4-23A			59.1	57.2	0.0	0.0		x	Total	1.50	r11237951.00	3814224.81	12.50	
R4-24A			61.2	59.2	0.0	0.0		x	Total	1.50	r11237950.00	3814235.23	12.50	
R3-1A			57.9	56.7	0.0	0.0		x	Total	1.50	r11237930.46	3814204.31	13.00	
R3-2A			58.8	57.7	0.0	0.0		x	Total	1.50	r11237924.19	3814204.84	13.04	
R3-3A			61.6	60.5	0.0	0.0		x	Total	1.50	r11237913.90	3814205.68	13.10	
R3-4A			63.1	61.4	0.0	0.0		x	Total	1.50	r11237906.25	3814205.88	13.14	
R3-5A			63.1	61.4	0.0	0.0		x	Total	1.50	r11237903.92	3814198.64	13.08	
R3-6A			62.6	60.7	0.0	0.0		x	Total	1.50	r11237906.41	3814190.27	13.00	
R3-7A			62.6	60.9	0.0	0.0		x	Total	1.50	r11237905.92	3814184.34	13.00	
R3-8A			62.5	60.9	0.0	0.0		x	Total	1.50	r11237905.28	3814175.17	13.00	
R3-9A			62.5	60.8	0.0	0.0		x	Total	1.50	r11237904.78	3814168.33	13.00	
R3-10A			62.6	60.7	0.0	0.0		x	Total	1.50	r11237904.36	3814159.15	13.00	
R3-11A			62.6	60.8	0.0	0.0		x	Total	1.50	r11237903.89	3814152.34	13.00	
R3-12A			62.8	61.3	0.0	0.0		x	Total	1.50	r11237900.93	3814146.17	13.04	
R3-13A			62.6	61.1	0.0	0.0		x	Total	1.50	r11237901.77	3814140.17	13.07	
R3-14A			53.9	43.8	0.0	0.0		x	Total	1.50	r11237904.96	3814138.70	13.07	
R3-15A			52.3	43.9	0.0	0.0		x	Total	1.50	r11237916.26	3814137.67	13.03	
R3-16A			51.2	43.3	0.0	0.0		x	Total	1.50	r11237926.46	3814137.10	13.00	
R3-17A			51.7	50.5	0.0	0.0		x	Total	1.50	r11237930.11	3814142.83	13.00	
R3-18A			51.1	50.4	0.0	0.0		x	Total	1.50	r11237928.78	3814169.17	13.00	
R3-19A			50.5	49.9	0.0	0.0		x	Total	1.50	r11237929.78	3814185.83	13.00	
R3-20A			51.0	50.2	0.0	0.0		x	Total	1.50	r11237932.95	3814200.50	13.00	
R2-1A			58.7	57.5	0.0	0.0		x	Total	1.50	r11237916.87	3814093.05	9.14	
R2-2A			58.2	57.3	0.0	0.0		x	Total	1.50	r11237911.83	3814086.96	9.16	
R2-3A			58.1	57.0	0.0	0.0		x	Total	1.50	r11237907.84	3814085.07	9.15	
R2-4A			57.8	56.7	0.0	0.0		x	Total	1.50	r11237903.85	3814080.45	9.17	
R2-5A			55.3	53.7	0.0	0.0		x	Total	1.50	r11237905.11	3814076.46	9.20	
R2-6A			48.5	42.9	0.0	0.0		x	Total	1.50	r11237911.41	3814071.62	9.05	
R2-7A			49.7	46.0	0.0	0.0		x	Total	1.50	r11237917.71	3814065.53	8.92	
R2-8A			51.8	49.3	0.0	0.0		x	Total	1.50	r11237924.85	3814058.18	8.91	
R2-9A			51.0	48.2	0.0	0.0		x	Total	1.50	r11237931.15	3814054.19	8.92	
R2-10A			47.4	40.5	0.0	0.0		x	Total	1.50	r11237936.41	3814052.93	8.94	
R2-11A			53.1	51.4	0.0	0.0		x	Total	1.50	r11237933.89	3814046.84	8.87	
R2-12A			55.2	53.9	0.0	0.0		x	Total	1.50	r11237929.05	3814041.59	8.79	
R2-13A			57.1	56.0	0.0	0.0		x	Total	1.50	r11237922.96	3814033.40	8.67	
R2-14A			57.3	56.4	0.0	0.0		x	Total	1.50	r11237915.40	3814023.32	8.57	
R2-15A			56.9	56.2	0.0	0.0		x	Total	1.50	r11237910.36	3814016.60	8.56	
R2-16A			55.0	54.3	0.0	0.0		x	Total	1.50	r11237904.69	3814008.41	8.54	
R2-17A			47.0	46.2	0.0	0.0		x	Total	1.50	r11237905.53	3814001.90	8.48	
R2-18A			46.7	45.2	0.0	0.0		x	Total	1.50	r11237908.89	3813998.96	8.43	
R2-19A			47.6	45.3	0.0	0.0		x	Total	1.50	r11237914.35	3813994.34	8.38	
R2-20A			47.2	44.4	0.0	0.0		x	Total	1.50	r11237917.92	3813991.82	8.34	
R2-21A			44.2	44.1	0.0	0.0		x	Total	1.50	r11237925.48	3813995.60	8.25	
R2-22A			44.4	44.2	0.0	0.0		x	Total	1.50	r11237935.78	3814009.04	8.45	
R2-23A			44.2	44.1	0.0	0.0		x	Total	1.50	r11237947.96	3814024.79	8.68	
R2-24A			44.5	44.3	0.0	0.0		x	Total	1.50	r11237960.56	3814040.96	8.92	
R2-25A			53.2	52.5	0.0	0.0		x	Total	1.50	r11237962.45	3814056.29	9.08	
R2-26A			57.1	56.3	0.0	0.0		x	Total	1.50	r11237951.11	3814068.68	9.07	
R2-27A			57.0	56.2	0.0	0.0		x	Total	1.50	r11237956.15	3814064.69	9.08	
R2-28A			56.6	56.0	0.0	0.0		x	Total	1.50	r11237941.24	3814076.04	9.08	
R2-29A			57.8	57.0	0.0	0.0		x	Total	1.50	r11237935.57	3814081.92	9.09	
R2-30A			58.6	57.7	0.0	0.0		x	Total	1.50	r11237927.16	3814088.22	9.09	
Pool Rec 1			56.7	55.3	0.0	0.0		x	Total	1.50	r11237890.45	3814025.86	8.81	
Pool Rec 2			57.3	56.2	0.0	0.0		x	Total	1.50	r11237882.51	3814010.85	8.77	
Pool Rec 3			55.0	54.2	0.0	0.0		x	Total	1.50	r11237901.70	3814017.46	8.64	
Pool Rec 4			57.0	55.6	0.0	0.0		x	Total	1.50	r11237900.64	3814035.98	8.80	
Pool Rec 5			57.3	56.2	0.0	0.0		x	Total	1.50	r11237904.48	3814052.79	8.88	
Pool Rec 6			53.5	51.0	0.0	0.0		x	Total	1.50	r11237887.02	3814002.60	8.75	
R6-1A			54.2	53.6	0.0	0.0		x	Total	1.50	r11238102.76	3814182.07	10.66	
R6-2A			54.6	53.9	0.0	0.0		x	Total	1.50	r11238087.19	3814180.63	10.85	
R6-3A			56.3	55.3	0.0	0.0		x	Total	1.50	r11238054.90	3814177.76	11.10	
R6-4A			56.5	55.3	0.0	0.0		x	Total	1.50	r11238037.24	3814169.05	10.88	

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	X	Y	Z	
			(dBA)	(dBA)	(dBA)	(dBA)			(m)					(m)
R6-5A			56.1	55.0	0.0	0.0		x	Total	1.50	r	11238038.29	3814157.89	10.72
R6-6A			43.1	39.8	0.0	0.0		x	Total	1.50	r	11238050.67	3814151.80	10.57
Pool Rec 7			53.1	51.8	0.0	0.0		x	Total	1.50	r	11238056.23	3814218.08	11.20
Pool Rec 8			50.2	49.3	0.0	0.0		x	Total	1.50	r	11238090.15	3814224.92	10.34
Pool Rec 9			48.1	47.3	0.0	0.0		x	Total	1.50	r	11238095.64	3814229.01	10.34
Pool Rec 10			55.0	53.4	0.0	0.0		x	Total	1.50	r	11238104.64	3814233.36	10.34
Pool Rec 11			49.4	48.1	0.0	0.0		x	Total	1.50	r	11238098.44	3814232.67	10.34
Pool Rec 12			50.5	49.9	0.0	0.0		x	Total	1.50	r	11238079.26	3814220.55	10.50
Pool Rec 13			51.0	50.3	0.0	0.0		x	Total	1.50	r	11238079.65	3814215.96	10.57
Pool Rec 14			46.6	45.4	0.0	0.0		x	Total	1.50	r	11238085.08	3814213.94	10.44
Pool Rec 15			45.6	44.5	0.0	0.0		x	Total	1.50	r	11238091.30	3814208.91	10.34
Pool Rec 16			46.7	46.2	0.0	0.0		x	Total	1.50	r	11238105.19	3814209.84	10.34
Pool Rec 17			46.2	45.9	0.0	0.0		x	Total	1.50	r	11238108.37	3814214.20	10.34
Pool Rec 18			50.8	49.5	0.0	0.0		x	Total	1.50	r	11238110.80	3814220.79	10.34
Pool Rec 19			53.1	51.6	0.0	0.0		x	Total	1.50	r	11238106.91	3814228.75	10.34
Pool Rec 20			53.7	52.7	0.0	0.0		x	Total	1.50	r	11237986.96	3814210.37	12.32
Pool Rec 21			57.9	56.2	0.0	0.0		x	Total	1.50	r	11237957.55	3814208.80	12.47
Pool Rec 22			56.4	55.1	0.0	0.0		x	Total	1.50	r	11237953.26	3814188.06	12.45
Pool Rec 23			56.3	55.4	0.0	0.0		x	Total	1.50	r	11237995.10	3814185.06	11.44
Pool Rec 24			56.9	55.7	0.0	0.0		x	Total	1.50	r	11238006.27	3814175.23	11.18
Pool Rec 25			55.8	54.7	0.0	0.0		x	Total	1.50	r	11237988.46	3814166.84	11.21
Pool Rec 26			56.9	55.6	0.0	0.0		x	Total	1.50	r	11237973.91	3814133.63	12.49
Pool Rec 27			57.2	55.9	0.0	0.0		x	Total	1.50	r	11237992.23	3814117.48	12.44
R1-1A			54.6	51.9	0.0	0.0		x	Total	1.50	r	11237833.27	3813996.54	8.83
R1-2A			56.8	52.3	0.0	0.0		x	Total	1.50	r	11237824.45	3813983.73	8.91
R1-3A			58.1	40.2	0.0	0.0		x	Total	1.50	r	11237833.27	3813973.23	9.05
R1-4A			54.3	39.6	0.0	0.0		x	Total	1.50	r	11237867.71	3813948.03	9.00
R1-5A			43.1	42.8	0.0	0.0		x	Total	1.50	r	11237883.04	3813953.70	8.88
R1-6A			57.8	57.2	0.0	0.0		x	Total	1.50	r	11237889.97	3813979.95	8.81
R1-7A			58.5	57.6	0.0	0.0		x	Total	1.50	r	11237880.10	3813982.05	8.82
R1-8A			58.8	58.1	0.0	0.0		x	Total	1.50	r	11237872.75	3813973.02	8.89
R1-9A			58.4	57.7	0.0	0.0		x	Total	1.50	r	11237860.99	3813977.22	8.90
R1-10A			56.2	55.1	0.0	0.0		x	Total	1.50	r	11237843.77	3813990.45	8.88
Pool Rec 28			58.4	56.8	0.0	0.0		x	Total	1.50	r	11238038.23	3814220.11	11.73
Pool Rec 29			57.1	55.6	0.0	0.0		x	Total	1.50	r	11238004.69	3814209.22	12.37
ST_LT1			65.7	65.0	0.0	0.0		x	Total	1.50	r	11238077.99	3814278.44	11.32

### Gebietsausweisungen

Name	M.	ID	Type	Persons
				(1/km <sup>2</sup> )

### Hindernisse

#### Schirme

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height	
			left	right		horz.	vert.	Begin	End
					(m)	(m)	(m)	(m)	

#### Häuser

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)
			x	0		3.65 r
			x	0		3.65 r
			x	0		6.70 r
			x	0		6.70 r
			x	0		9.75 r

Name	M.	ID	RB	Residents	Absorption	Height
						Begin (m)
			x	0		9.75 r
			x	0		4.60 r
			x	0		6.70 r
			x	0		9.75 r
			x	0		9.75 r
			x	0		4.60 r
			x	0		9.75 r

### Bewuchs

Name	M.	ID	Height
			(m)

### Bebauung

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

## Geometriedaten

### Geometrie Linienquellen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Flächenquellen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Parkplätze

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Straßen

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)		
Los Carneros Road			11237697.29	3813908.86	7.62	7.60		
			11237759.07	3813961.83	10.67	10.70		
			11237782.99	3813989.66	10.67	11.00		
			11237808.40	3814029.18	12.50	12.50		
			11237829.81	3814079.44	12.80	14.00		
			11237845.52	3814131.11	14.33	16.00		
			11237849.30	3814230.44	14.94	18.50		
			11237851.61	3814289.45	16.76	21.30		
			11237854.07	3814329.87	18.29	21.50		
			11237857.43	3814385.23	18.29	18.29		
			11237861.66	3814452.97	16.46	16.46		
US 101 SB Onramp			11237862.91	3814329.11	14.33	21.50		
			11237917.30	3814334.68	14.63	19.00		
			11237998.36	3814343.08	14.63	15.80		
			11238188.34	3814363.72	10.36	12.20		
			11238396.35	3814383.05	9.75	10.40		
US 101 SB Offramp			11237577.38	3814297.86	12.19	12.19		
			11237682.81	3814309.20	14.33	14.33		
			11237760.93	3814317.60	14.33	18.00		
			11237844.93	3814327.68	14.00	21.50		

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin	End	x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		
US 101 SB			11237580.17	3814319.88	12.80	12.80		
			11237676.48	3814338.40	12.50	12.50		
			11237752.15	3814353.33	12.19	12.19		
			11237789.19	3814359.46	12.19	12.19		
			11237847.26	3814365.39	12.50	12.50		
US 101 SB			11237865.59	3814369.12	12.50	12.50		
			11237906.40	3814372.39	11.28	11.28		
			11237997.12	3814376.59	10.97	10.97		
			11238183.92	3814379.77	10.97	10.97		
			11238395.93	3814392.44	10.36	10.36		
US 101 NB			11238394.07	3814413.64	9.14	9.14		
			11238181.55	3814403.56	9.75	9.75		
			11237995.91	3814396.84	11.28	11.28		
			11237901.83	3814389.28	10.67	10.67		
			11237866.49	3814386.68	12.50	12.50		
US 101 NB			11237847.87	3814383.91	12.50	12.50		
			11237786.75	3814375.84	12.19	12.19		
			11237748.95	3814369.96	12.19	12.19		
			11237674.19	3814356.52	13.11	13.11		
			11237577.59	3814337.20	12.50	12.50		

### Geometrie Schienen

Name	Height		Coordinates					
	Begin	End	x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		
UPRR	12.50	a	12.50	a	11237570.03	3814262.43	12.50	1.25
					11237838.85	3814285.11	12.50	11.18
UPRR	12.50	a	8.53	a	11237861.86	3814287.47	12.50	11.58
					11238395.28	3814332.85	8.53	0.89

### Geometrie Schirme

Name	M.	ID	Absorption		Z-Ext. (m)	Cantilever		Height		Coordinates			
			left	right		horz.	vert.	Begin	End	x	y	z	Ground
						(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
										11237881.18	3814251.51	15.51	13.10
										11237882.02	3814269.67	14.31	11.90
										11237895.41	3814270.84	14.01	11.60
										11237911.06	3814272.16	13.41	11.00
										11237945.61	3814275.47	13.41	11.00
										11237961.46	3814277.18	13.11	10.70
										11238006.41	3814281.33	12.91	10.50
										11238074.37	3814287.71	12.51	10.10
										11238128.78	3814292.54	11.56	9.15
										11238169.64	3814296.43	10.95	8.54
										11238187.40	3814297.69	11.56	9.15
										11237881.14	3814251.53	14.93	13.10
										11237880.87	3814250.01	14.93	13.10
										11237880.31	3814214.13	14.93	13.10
										11237879.47	3814200.69	15.23	13.40
										11237878.61	3814185.47	15.53	13.70
										11237876.44	3814158.13	14.63	12.80
										11237870.79	3814123.60	15.23	13.40
										11237862.61	3814092.28	16.73	14.90
										11237859.87	3814081.36	15.83	14.00
										11237854.83	3814065.92	15.53	13.70
										11237846.22	3814043.24	14.13	12.30
										11237832.15	3814014.88	13.73	11.90
										11237818.29	3813991.15	12.63	10.80
										11237814.79	3813985.44	12.63	10.80
										11237810.38	3813979.14	12.63	10.80

## Geometrie Häuser

Name	M.	ID	RB	Residents	Absorption	Height	Coordinates			
							Begin	x	y	z
						(m)	(m)	(m)	(m)	(m)
			x	0		3.65	r11238188.92	3814297.40	12.80	9.15
							11238194.21	3814297.14	12.80	9.21
							11238193.42	3814235.75	12.80	8.41
							11238220.94	3814234.69	12.80	8.50
							11238220.67	3814227.01	12.80	8.34
							11238187.86	3814229.66	12.80	8.27
							11238189.18	3814297.40	12.80	9.15
			x	0		3.65	r11238198.18	3814176.74	11.11	7.46
							11238200.30	3814224.10	11.11	8.31
							11238237.34	3814223.31	11.11	8.24
							11238236.55	3814196.05	11.11	7.69
							11238223.32	3814196.32	11.11	7.71
							11238222.79	3814175.68	11.11	7.29
			x	0		6.70	r11237903.99	3814215.91	18.27	11.57
							11237901.32	3814243.25	18.27	11.50
							11237905.31	3814243.57	18.27	11.46
							11237905.26	3814244.72	18.27	11.46
							11237909.41	3814244.98	18.27	11.42
							11237909.83	3814239.79	18.27	11.40
							11237911.82	3814239.94	18.27	11.38
							11237911.77	3814242.25	18.27	11.39
							11237923.27	3814243.15	18.27	11.27
							11237923.43	3814240.99	18.27	11.26
							11237927.52	3814241.41	18.27	11.22
							11237927.31	3814243.51	18.27	11.23
							11237939.07	3814244.68	18.27	11.11
							11237939.22	3814242.53	18.27	11.10
							11237941.17	3814242.68	18.27	11.08
							11237940.69	3814247.83	18.27	11.10
							11237944.63	3814248.15	18.27	11.05
							11237944.74	3814246.83	18.27	11.05
							11237948.73	3814247.15	18.27	11.01
							11237951.25	3814219.58	18.27	11.00
							11237947.26	3814219.27	18.27	11.00
							11237947.34	3814218.14	18.27	11.00
							11237943.38	3814217.89	18.27	11.00
							11237942.88	3814222.85	18.27	11.01
							11237941.01	3814222.81	18.27	11.03
							11237941.13	3814220.39	18.27	11.03
							11237913.61	3814218.28	18.27	11.40
							11237913.48	3814220.39	18.27	11.37
							11237911.36	3814220.19	18.27	11.41
							11237911.89	3814215.23	18.27	11.47
							11237907.92	3814214.84	18.27	11.53
							11237907.79	3814215.89	18.27	11.52
							11237903.82	3814215.50	18.27	11.57
			x	0		6.70	r11237960.36	3814248.60	17.64	10.94
							11237964.18	3814248.92	17.64	10.94
							11237964.17	3814249.98	17.64	10.92
							11237968.27	3814250.40	17.64	10.92
							11237968.69	3814245.25	17.64	10.97
							11237970.58	3814245.46	17.64	10.96
							11237970.37	3814247.66	17.64	10.96
							11237982.13	3814248.71	17.64	10.93
							11237982.45	3814246.30	17.64	10.93
							11237986.44	3814246.72	17.64	10.93
							11237986.23	3814249.03	17.64	10.91
							11237997.99	3814249.98	17.64	10.87
							11237998.10	3814247.77	17.64	10.91
							11237999.99	3814247.98	17.64	10.88
							11237999.57	3814253.13	17.64	10.80
							11238004.30	3814253.65	17.64	10.75

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238004.33	3814252.58	17.64	10.75
							11238007.69	3814252.90	17.64	10.71
							11238010.07	3814225.08	17.64	11.27
							11238006.19	3814224.87	17.64	11.24
							11238006.29	3814223.72	17.64	11.26
							11238002.14	3814223.44	17.64	11.26
							11238001.77	3814228.23	17.64	11.21
							11237999.88	3814228.13	17.64	11.20
							11238000.02	3814226.06	17.64	11.22
							11237972.62	3814223.61	17.64	11.03
							11237972.36	3814225.92	17.64	11.01
							11237970.47	3814225.82	17.64	10.99
							11237971.00	3814220.46	17.64	11.05
							11237967.11	3814219.93	17.64	11.02
							11237966.80	3814221.40	17.64	11.00
							11237962.80	3814220.88	17.64	11.00
			x	0		9.75	11238034.68	3814235.95	20.20	10.45
							11238034.15	3814241.31	20.20	10.48
							11238035.41	3814241.31	20.20	10.45
							11238034.89	3814244.67	20.20	10.46
							11238036.99	3814244.88	20.20	10.42
							11238036.78	3814247.40	20.20	10.42
							11238034.26	3814247.29	20.20	10.46
							11238034.26	3814248.66	20.20	10.45
							11238036.57	3814248.97	20.20	10.42
							11238036.04	3814253.91	20.20	10.43
							11238037.51	3814254.12	20.20	10.40
							11238037.30	3814256.75	20.20	10.40
							11238046.44	3814257.59	20.20	10.23
							11238046.65	3814255.28	20.20	10.23
							11238048.96	3814255.49	20.20	10.18
							11238048.86	3814257.80	20.20	10.18
							11238060.52	3814258.85	20.20	9.97
							11238060.83	3814256.64	20.20	9.96
							11238065.56	3814257.06	20.20	9.87
							11238065.45	3814257.80	20.20	9.88
							11238069.44	3814258.11	20.20	9.78
							11238069.23	3814258.85	20.20	9.79
							11238072.65	3814259.11	20.20	9.71
							11238072.49	3814260.21	20.20	9.72
							11238081.66	3814261.05	20.20	9.43
							11238081.66	3814260.05	20.20	9.42
							11238084.75	3814260.46	20.20	9.32
							11238085.16	3814256.30	20.20	9.30
							11238090.42	3814257.05	20.20	9.13
							11238089.92	3814261.88	20.20	9.16
							11238096.58	3814262.38	20.20	8.94
							11238096.75	3814259.05	20.20	8.93
							11238100.34	3814259.38	20.20	8.84
							11238101.09	3814253.71	20.20	8.84
							11238099.67	3814253.54	20.20	8.84
							11238099.92	3814250.54	20.20	8.84
							11238098.84	3814250.54	20.20	8.84
							11238099.00	3814247.71	20.20	8.84
							11238101.42	3814247.96	20.20	8.84
							11238101.25	3814246.21	20.20	8.84
							11238098.84	3814246.04	20.20	8.84
							11238099.25	3814241.12	20.20	8.84
							11238098.42	3814241.12	20.20	8.84
							11238098.50	3814238.70	20.20	8.84
							11238090.33	3814237.95	20.20	9.05
							11238090.33	3814238.70	20.20	9.05
							11238087.16	3814238.54	20.20	9.13



Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238087.33	3814237.37	20.20	9.12
							11238078.16	3814236.45	20.20	9.35
							11238077.99	3814237.37	20.20	9.36
							11238074.66	3814237.12	20.20	9.45
							11238074.74	3814236.04	20.20	9.44
							11238069.91	3814235.79	20.20	9.56
							11238069.82	3814236.79	20.20	9.57
							11238063.74	3814236.12	20.20	9.73
							11238063.74	3814235.16	20.20	9.72
							11238054.52	3814234.22	20.20	9.95
							11238054.48	3814235.37	20.20	9.96
							11238045.56	3814234.62	20.20	10.19
							11238045.56	3814233.62	20.20	10.18
							11238038.48	3814233.12	20.20	10.36
							11238038.14	3814236.12	20.20	10.38
			x	0		9.75 r	11238106.23	3814266.67	18.61	8.86
							11238109.59	3814266.88	18.61	8.88
							11238109.38	3814269.82	18.61	8.89
							11238116.31	3814270.66	18.61	8.90
							11238117.26	3814265.51	18.61	8.88
							11238122.10	3814265.85	18.61	8.84
							11238121.84	3814270.15	18.61	8.85
							11238124.75	3814270.28	18.61	8.83
							11238124.82	3814271.34	18.61	8.83
							11238134.15	3814272.07	18.61	8.76
							11238134.21	3814270.94	18.61	8.75
							11238137.45	3814271.34	18.61	8.73
							11238137.19	3814272.40	18.61	8.73
							11238141.94	3814272.82	18.61	8.69
							11238141.94	3814271.82	18.61	8.69
							11238148.11	3814272.57	18.61	8.64
							11238148.28	3814273.48	18.61	8.64
							11238152.86	3814273.98	18.61	8.61
							11238152.95	3814273.07	18.61	8.60
							11238160.89	3814273.86	18.61	8.58
							11238161.15	3814270.95	18.61	8.61
							11238162.54	3814271.08	18.61	8.61
							11238162.81	3814266.25	18.61	8.66
							11238165.25	3814266.45	18.61	8.66
							11238165.32	3814264.80	18.61	8.68
							11238162.87	3814264.66	18.61	8.68
							11238163.14	3814262.15	18.61	8.70
							11238166.25	3814262.55	18.61	8.71
							11238166.31	3814260.89	18.61	8.72
							11238164.13	3814260.69	18.61	8.72
							11238164.33	3814258.31	18.61	8.75
							11238166.64	3814258.51	18.61	8.75
							11238167.64	3814247.33	18.61	8.82
							11238167.64	3814246.00	18.61	8.81
							11238163.72	3814245.67	18.61	8.81
							11238163.89	3814241.75	18.61	8.78
							11238164.78	3814241.78	18.61	8.78
							11238165.04	3814238.54	18.61	8.76
							11238166.23	3814238.71	18.61	8.76
							11238166.30	3814237.48	18.61	8.75
							11238163.76	3814237.28	18.61	8.75
							11238164.02	3814234.21	18.61	8.72
							11238166.47	3814234.47	18.61	8.72
							11238166.66	3814232.95	18.61	8.71
							11238163.36	3814232.75	18.61	8.71
							11238163.42	3814229.77	18.61	8.69
							11238164.61	3814229.77	18.61	8.69
							11238164.75	3814227.19	18.61	8.67

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
						11238167.00	3814227.39	18.61	8.67	
						11238167.59	3814220.78	18.61	8.66	
						11238163.95	3814220.38	18.61	8.62	
						11238164.27	3814217.23	18.61	8.59	
						11238156.28	3814216.81	18.61	8.60	
						11238156.18	3814215.44	18.61	8.59	
						11238151.56	3814214.92	18.61	8.62	
						11238151.45	3814216.18	18.61	8.62	
						11238145.15	3814215.65	18.61	8.65	
						11238145.25	3814214.60	18.61	8.65	
						11238136.01	3814213.87	18.61	8.71	
						11238136.01	3814214.60	18.61	8.71	
						11238132.86	3814214.50	18.61	8.73	
						11238132.54	3814218.38	18.61	8.73	
						11238126.87	3814218.07	18.61	8.77	
						11238127.40	3814213.03	18.61	8.78	
						11238120.78	3814212.50	18.61	8.82	
						11238120.58	3814215.48	18.61	8.81	
						11238117.10	3814215.13	18.61	8.84	
						11238116.49	3814220.84	18.61	8.83	
						11238117.73	3814220.90	18.61	8.82	
						11238117.52	3814223.95	18.61	8.82	
						11238118.78	3814224.05	18.61	8.81	
						11238118.50	3814226.50	18.61	8.81	
						11238116.47	3814226.37	18.61	8.82	
						11238116.05	3814232.93	18.61	8.82	
						11238119.15	3814233.30	18.61	8.80	
						11238118.89	3814236.34	18.61	8.81	
						11238126.87	3814236.97	18.61	8.80	
						11238127.06	3814235.74	18.61	8.79	
						11238130.34	3814236.03	18.61	8.79	
						11238130.23	3814237.29	18.61	8.80	
						11238135.07	3814237.81	18.61	8.79	
						11238135.16	3814236.77	18.61	8.79	
						11238137.87	3814236.95	18.61	8.78	
						11238137.94	3814238.01	18.61	8.79	
						11238142.84	3814238.34	18.61	8.79	
						11238142.93	3814236.78	18.61	8.77	
						11238145.70	3814237.04	18.61	8.77	
						11238145.57	3814238.45	18.61	8.78	
						11238151.09	3814238.63	18.61	8.78	
						11238151.37	3814235.03	18.61	8.75	
						11238154.39	3814235.19	18.61	8.75	
						11238153.66	3814241.91	18.61	8.80	
						11238151.03	3814241.70	18.61	8.80	
						11238150.79	3814244.75	18.61	8.82	
						11238152.42	3814244.85	18.61	8.82	
						11238152.29	3814247.48	18.61	8.84	
						11238154.60	3814247.79	18.61	8.84	
						11238153.93	3814254.00	18.61	8.77	
						11238151.03	3814253.68	18.61	8.77	
						11238151.24	3814250.00	18.61	8.81	
						11238146.30	3814249.58	18.61	8.80	
						11238146.24	3814250.82	18.61	8.79	
						11238142.93	3814250.81	18.61	8.78	
						11238143.05	3814248.84	18.61	8.80	
						11238138.53	3814248.42	18.61	8.80	
						11238138.53	3814249.37	18.61	8.79	
						11238131.60	3814248.74	18.61	8.78	
						11238131.49	3814247.79	18.61	8.79	
						11238122.57	3814247.06	18.61	8.78	
						11238122.57	3814247.79	18.61	8.78	
						11238119.62	3814247.69	18.61	8.81	

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238119.83	3814246.43	18.61	8.80
							11238111.96	3814245.80	18.61	8.85
							11238111.75	3814248.53	18.61	8.86
							11238110.17	3814248.63	18.61	8.85
							11238109.75	3814253.57	18.61	8.86
							11238107.44	3814253.47	18.61	8.85
							11238107.23	3814254.94	18.61	8.85
							11238109.65	3814255.15	18.61	8.86
							11238109.44	3814257.67	18.61	8.87
							11238108.17	3814257.77	18.61	8.86
							11238108.17	3814260.61	18.61	8.86
							11238106.70	3814260.61	18.61	8.85
			x	0		4.60	r 11238097.36	3814231.78	13.44	8.84
							11238106.36	3814232.57	13.44	8.84
							11238107.15	3814224.83	13.44	8.84
							11238110.06	3814225.16	13.44	8.84
							11238110.59	3814216.69	13.44	8.84
							11238107.68	3814216.44	13.44	8.84
							11238108.21	3814210.54	13.44	8.84
							11238104.31	3814210.14	13.44	8.84
							11238104.24	3814211.66	13.44	8.84
							11238100.20	3814211.26	13.44	8.84
							11238099.94	3814213.25	13.44	8.84
							11238096.56	3814212.92	13.44	8.84
							11238097.03	3814209.74	13.44	8.84
							11238088.95	3814208.88	13.44	8.87
							11238088.23	3814214.70	13.44	8.86
							11238080.15	3814214.17	13.44	9.07
							11238079.56	3814222.05	13.44	8.98
							11238098.22	3814223.90	13.44	8.84
			x	0		6.70	r 11237905.46	3814205.38	18.34	11.64
							11237914.47	3814205.18	18.34	11.59
							11237914.43	3814204.36	18.34	11.58
							11237923.12	3814203.86	18.34	11.53
							11237923.13	3814204.51	18.34	11.54
							11237932.31	3814203.84	18.34	11.50
							11237932.04	3814199.06	18.34	11.50
							11237932.94	3814199.01	18.34	11.50
							11237932.73	3814195.02	18.34	11.50
							11237927.74	3814195.33	18.34	11.50
							11237927.74	3814193.13	18.34	11.50
							11237929.89	3814192.97	18.34	11.50
							11237929.06	3814180.72	18.34	11.50
							11237926.72	3814181.05	18.34	11.50
							11237926.64	3814176.71	18.34	11.50
							11237928.76	3814176.52	18.34	11.50
							11237927.92	3814163.93	18.34	11.50
							11237925.76	3814164.09	18.34	11.50
							11237925.76	3814160.17	18.34	11.50
							11237927.84	3814159.92	18.34	11.50
							11237927.34	3814148.00	18.34	11.50
							11237925.09	3814148.17	18.34	11.50
							11237924.92	3814146.00	18.34	11.50
							11237929.92	3814145.67	18.34	11.50
							11237929.63	3814141.37	18.34	11.50
							11237928.38	3814141.37	18.34	11.50
							11237928.34	3814137.33	18.34	11.50
							11237921.63	3814137.66	18.34	11.51
							11237921.59	3814136.87	18.34	11.52
							11237919.59	3814137.00	18.34	11.52
							11237919.59	3814137.96	18.34	11.52
							11237910.66	3814138.46	18.34	11.55
							11237910.54	3814137.66	18.34	11.55

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237908.40	3814137.96	18.34	11.56
							11237908.44	3814138.69	18.34	11.55
							11237901.91	3814139.04	18.34	11.58
							11237902.12	3814143.33	18.34	11.55
							11237901.04	3814143.33	18.34	11.56
							11237901.24	3814147.42	18.34	11.53
							11237906.23	3814147.16	18.34	11.52
							11237906.41	3814149.29	18.34	11.50
							11237904.08	3814149.46	18.34	11.51
							11237904.83	3814161.72	18.34	11.50
							11237907.25	3814161.55	18.34	11.50
							11237907.41	3814165.64	18.34	11.50
							11237905.16	3814165.89	18.34	11.50
							11237906.00	3814177.97	18.34	11.50
							11237907.83	3814177.81	18.34	11.50
							11237908.08	3814182.06	18.34	11.50
							11237906.08	3814182.48	18.34	11.50
							11237906.87	3814194.52	18.34	11.52
							11237909.12	3814194.26	18.34	11.50
							11237909.19	3814196.57	18.34	11.53
							11237904.19	3814196.84	18.34	11.55
							11237904.45	3814201.12	18.34	11.60
							11237905.35	3814201.07	18.34	11.60
			x	0		9.75 r	11238039.03	3814154.34	18.89	9.14
							11238038.54	3814160.90	18.89	9.27
							11238040.69	3814161.10	18.89	9.28
							11238040.44	3814163.68	18.89	9.32
							11238039.44	3814163.68	18.89	9.31
							11238039.28	3814166.27	18.89	9.35
							11238037.86	3814166.27	18.89	9.34
							11238037.61	3814172.19	18.89	9.43
							11238040.94	3814172.44	18.89	9.45
							11238040.69	3814175.94	18.89	9.50
							11238047.20	3814176.27	18.89	9.55
							11238047.61	3814171.52	18.89	9.48
							11238052.53	3814171.94	18.89	9.48
							11238052.12	3814176.94	18.89	9.58
							11238057.20	3814177.35	18.89	9.59
							11238057.28	3814176.52	18.89	9.57
							11238063.29	3814176.94	18.89	9.55
							11238063.20	3814178.02	18.89	9.57
							11238067.87	3814178.52	18.89	9.55
							11238068.29	3814176.06	18.89	9.50
							11238073.42	3814176.44	18.89	9.48
							11238073.29	3814177.35	18.89	9.50
							11238077.13	3814177.77	18.89	9.45
							11238077.09	3814178.52	18.89	9.46
							11238080.05	3814178.77	18.89	9.42
							11238079.96	3814179.77	18.89	9.43
							11238089.63	3814180.36	18.89	9.31
							11238089.80	3814179.48	18.89	9.30
							11238092.47	3814179.69	18.89	9.27
							11238092.89	3814176.02	18.89	9.23
							11238098.22	3814176.52	18.89	9.16
							11238097.64	3814181.11	18.89	9.21
							11238104.47	3814181.69	18.89	9.13
							11238104.61	3814178.58	18.89	9.10
							11238108.51	3814178.91	18.89	9.06
							11238108.97	3814173.35	18.89	9.01
							11238107.44	3814173.24	18.89	9.01
							11238108.78	3814158.07	18.89	8.86
							11238042.87	3814151.71	18.89	9.08
							11238042.54	3814154.56	18.89	9.14

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
			x	0		9.75	11237904.07	3814078.49	17.44	7.69
							11237909.95	3814086.21	17.44	7.65
							11237912.05	3814084.16	17.44	7.65
							11237913.15	3814085.47	17.44	7.65
							11237912.42	3814086.21	17.44	7.67
							11237917.51	3814092.72	17.44	7.64
							11237924.66	3814086.79	17.44	7.57
							11237926.07	3814088.52	17.44	7.59
							11237928.99	3814085.74	17.44	7.58
							11237929.44	3814086.26	17.44	7.59
							11237937.05	3814079.91	17.44	7.58
							11237936.21	3814078.86	17.44	7.57
							11237938.31	3814077.12	17.44	7.57
							11237938.68	3814077.60	17.44	7.58
							11237942.20	3814074.81	17.44	7.57
							11237941.25	3814073.66	17.44	7.56
							11237946.14	3814069.72	17.44	7.56
							11237946.77	3814070.35	17.44	7.57
							11237948.66	3814068.56	17.44	7.56
							11237949.60	3814069.46	17.44	7.57
							11237957.06	3814063.26	17.44	7.58
							11237956.22	3814062.21	17.44	7.58
							11237958.47	3814060.48	17.44	7.58
							11237955.38	3814056.64	17.44	7.55
							11237956.54	3814055.59	17.44	7.55
							11237958.64	3814057.90	17.44	7.57
							11237965.99	3814052.23	17.44	7.57
							11237964.24	3814049.73	17.44	7.54
							11237965.57	3814048.56	17.44	7.53
							11237920.72	3813989.94	17.44	6.81
							11237912.53	3813997.09	17.44	6.88
							11237914.31	3813999.19	17.44	6.88
							11237913.05	3814000.03	17.44	6.90
							11237911.37	3813997.82	17.44	6.90
							11237903.81	3814004.23	17.44	7.02
							11237905.59	3814006.44	17.44	7.02
							11237904.33	3814007.17	17.44	7.04
							11237907.69	3814011.16	17.44	7.03
							11237909.27	3814009.80	17.44	7.01
							11237910.95	3814012.00	17.44	7.01
							11237910.00	3814012.74	17.44	7.03
							11237911.90	3814014.94	17.44	7.03
							11237910.85	3814015.89	17.44	7.04
							11237917.15	3814023.66	17.44	7.06
							11237918.30	3814022.82	17.44	7.04
							11237921.67	3814027.13	17.44	7.09
							11237920.51	3814028.08	17.44	7.10
							11237926.39	3814036.27	17.44	7.22
							11237927.55	3814035.32	17.44	7.21
							11237930.70	3814039.32	17.44	7.27
							11237929.33	3814040.58	17.44	7.28
							11237932.51	3814044.55	17.44	7.34
							11237933.24	3814044.08	17.44	7.34
							11237935.69	3814047.39	17.44	7.39
							11237937.14	3814045.67	17.44	7.37
							11237938.00	3814046.60	17.44	7.39
							11237938.67	3814046.10	17.44	7.38
							11237941.09	3814049.27	17.44	7.43
							11237942.17	3814049.35	17.44	7.44
							11237941.92	3814050.18	17.44	7.44
							11237942.09	3814051.85	17.44	7.46
							11237939.17	3814053.60	17.44	7.46
							11237938.42	3814053.18	17.44	7.46

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x (m)	y (m)	z (m)	Ground (m)
							11237935.42	3814055.77	17.44	7.45
							11237934.75	3814055.02	17.44	7.44
							11237934.08	3814055.52	17.44	7.44
							11237932.58	3814053.52	17.44	7.43
							11237929.00	3814056.35	17.44	7.42
							11237929.75	3814057.27	17.44	7.43
							11237927.91	3814058.69	17.44	7.43
							11237927.16	3814057.35	17.44	7.42
							11237919.33	3814063.94	17.44	7.42
							11237920.08	3814064.77	17.44	7.43
							11237916.03	3814068.10	17.44	7.43
							11237915.17	3814067.34	17.44	7.44
							11237914.16	3814068.44	17.44	7.47
							11237915.82	3814070.11	17.44	7.45
							11237914.10	3814071.65	17.44	7.50
							11237913.49	3814070.86	17.44	7.50
							11237909.55	3814074.43	17.44	7.61
							11237909.97	3814074.85	17.44	7.60
							11237907.93	3814076.62	17.44	7.66
							11237906.24	3814074.64	17.44	7.67
							11237905.33	3814075.52	17.44	7.69
							11237906.14	3814076.48	17.44	7.69
			x	0		4.60 r	11237881.78	3814008.79	11.88	7.28
							11237891.07	3814025.96	11.88	7.31
							11237893.17	3814024.65	11.88	7.28
							11237893.49	3814025.39	11.88	7.28
							11237895.54	3814024.13	11.88	7.25
							11237895.22	3814023.60	11.88	7.25
							11237897.43	3814022.39	11.88	7.22
							11237899.74	3814021.08	11.88	7.19
							11237895.70	3814013.52	11.88	7.17
							11237898.69	3814011.78	11.88	7.13
							11237895.49	3814005.48	11.88	7.11
							11237897.74	3814004.22	11.88	7.08
							11237895.07	3813999.55	11.88	7.15
							11237893.17	3814000.70	11.88	7.17
							11237892.65	3813999.81	11.88	7.18
							11237891.39	3814000.91	11.88	7.19
							11237890.50	3813999.28	11.88	7.23
							11237887.71	3814001.23	11.88	7.25
							11237888.34	3814002.59	11.88	7.23
							11237886.92	3814003.38	11.88	7.24
							11237887.34	3814004.11	11.88	7.23
							11237883.93	3814006.11	11.88	7.27
							11237884.56	3814007.11	11.88	7.25
			x	0		9.75 r	11237824.66	3813980.79	17.23	7.48
							11237875.27	3813944.25	17.23	7.41
							11237897.74	3813973.02	17.23	7.33
							11237883.25	3813983.52	17.23	7.31
							11237871.49	3813968.61	17.23	7.42
							11237835.16	3813995.91	17.23	7.33

### Geometrie Höhenlinien

Name	M.	ID	OnlyPts	Height		Coordinates			
				Begin (m)	End (m)	x (m)	y (m)	z (m)	
							11237871.28	3814268.78	13.40
							11237882.03	3814269.78	11.90
							11237895.54	3814270.95	11.60
							11237910.79	3814272.20	11.00
							11237946.38	3814275.70	11.00
							11237960.87	3814277.35	10.70

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11238006.05	3814281.45	10.50
						11238074.42	3814287.97	10.10
						11238128.34	3814292.90	9.15
						11238169.52	3814296.90	8.54
						11238187.85	3814298.40	9.15
						11238186.80	3814204.20	7.93
						11237865.11	3814280.70	12.20
						11237919.09	3814284.91	11.00
						11238073.25	3814299.82	11.00
						11238250.89	3814315.71	10.10
						11237902.99	3814212.44	11.60
						11237901.21	3814224.35	11.50
						11237900.28	3814243.40	11.50
						11237902.00	3814246.57	11.50
						11237950.17	3814249.75	11.00
						11237953.34	3814243.13	11.00
						11237958.77	3814244.06	11.00
						11237960.35	3814251.21	10.90
						11237989.86	3814253.46	10.90
						11238007.73	3814255.18	10.70
						11238009.71	3814251.60	10.70
						11238012.09	3814224.48	11.30
						11238004.75	3814221.37	11.30
						11237962.54	3814218.13	11.00
						11237942.76	3814216.34	11.00
						11237905.17	3814212.56	11.60
						11238034.49	3814231.70	10.40
						11238032.99	3814240.04	10.50
						11238032.90	3814255.29	10.40
						11238037.07	3814258.71	10.40
						11238071.50	3814261.46	9.76
						11238099.75	3814264.05	8.84
						11238103.51	3814259.21	8.84
						11238102.92	3814241.21	8.84
						11238097.59	3814236.29	8.84
						11238036.24	3814231.12	10.40
						11238112.56	3814239.62	8.84
						11238108.46	3814246.89	8.84
						11238105.41	3814257.35	8.84
						11238103.30	3814270.71	8.84
						11238114.15	3814274.15	8.93
						11238162.18	3814277.99	8.54
						11238169.19	3814272.83	8.54
						11238172.37	3814250.73	8.84
						11238172.50	3814218.98	8.84
						11238164.30	3814210.64	8.54
						11238121.56	3814208.39	8.84
						11238114.94	3814217.25	8.84
						11238112.16	3814239.35	8.84
						11238112.72	3814207.99	8.84
						11238091.71	3814201.80	8.84
						11238077.95	3814210.62	9.15
						11238074.07	3814220.91	8.99
						11238085.10	3814231.21	8.84
						11238099.06	3814234.46	8.84
						11238035.65	3814154.34	9.15
						11238032.74	3814175.25	9.45
						11238059.21	3814185.97	9.76
						11238107.77	3814188.61	9.15
						11238122.06	3814164.66	9.15
						11238120.07	3814155.53	9.15
						11237903.76	3814209.71	11.70
						11237902.44	3814191.06	11.50

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11237901.25	3814153.21	11.50
						11237899.92	3814136.14	11.60
						11237930.89	3814133.89	11.50
						11237935.25	3814206.67	11.50
						11237933.93	3814132.97	11.50
						11237963.18	3814143.95	11.00
						11237993.61	3814171.60	9.45
						11238023.78	3814173.72	9.76
						11237898.20	3814133.45	11.00
						11237897.36	3814121.11	8.54
						11237893.03	3814100.94	7.62
						11237880.03	3814067.93	7.62
						11237861.35	3814016.74	7.62
						11237844.60	3814008.66	7.32
						11237824.93	3813996.32	7.32
						11237916.25	3814099.08	7.93
						11237901.43	3814082.14	7.62
						11237900.90	3814072.35	7.74
						11237912.78	3814050.56	7.32
						11237892.08	3814029.08	7.32
						11237877.91	3814010.91	7.32
						11237871.24	3813998.24	7.26
						11237854.43	3813994.25	7.32
						11237831.96	3813999.08	7.30
						11237821.24	3813984.16	7.32
						11237825.75	3813978.00	7.56
						11237860.61	3813946.91	7.56
						11237881.20	3813937.25	7.32
						11237900.52	3813973.37	7.32
						11237925.85	3813991.70	6.71
						11237971.28	3814054.17	7.62
						11237957.78	3814072.04	7.62
						11237921.26	3814097.71	7.62
						11237984.06	3814104.64	11.30
						11238018.30	3814121.86	10.40
						11238056.65	3814140.87	8.84
						11238109.00	3814156.21	8.84

### Geometrie Bruchkanten

Name	M.	ID	Coordinates	
			x	y
			(m)	(m)



# Bericht (Cumltv plus Prj 2nd Floor Rcvrs\_051514.cna)

Gruppentabelle Tag und Nacht

Name	Expression	R 7-1B		R 7-2B		R 7-3B		R 7-4B		R 7-5B		R 7-6B		R 7-7B		R 7-8B		R 7-9B	
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night

Source		R 7-1B		R 7-2B		R 7-3B		R 7-4B		R 7-5B		R 7-6B		R 7-7B		R 7-8B		
Name	M. ID	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	
Los Carneros Road																		37.9
US 101 SB Onramp												47.9		45.0				24.0
US 101 SB Offramp																		-6.6
US 101 SB														26.4				17.6
US 101 SB		62.7	-84.6	62.6	-84.8	62.3	-85.0	61.9	-85.4	58.9	-86.1	55.0		50.8				33.0
US 101 NB		53.3		53.2		53.0		57.3		54.4		52.2		48.7				31.1
US 101 NB														24.5				16.7
UPRR		49.5	49.5	49.9	49.9	50.3	50.3	50.8	50.8	51.1	51.1	34.6	34.6	35.6	35.6	33.8	33.8	33.8
UPRR		67.6	67.6	67.6	67.6	67.8	67.8	67.6	67.6	64.6	64.6	60.7	60.7	55.3	55.3	45.0	45.0	45.0

## Schallquellen

### Punktquellen

Name	M.	ID	Result. PWL			Lw / Li		Correction			Sound Reduction		Attenuation	Operating Time			K0
			Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)	Special (min)	

### Linienquellen

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Flächenquellen

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Flächenquellen vertikal

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Schienen

Name	M.	ID	Lm,E		Train Class	Add.Level				Vmax
			Day (dBA)	Night (dBA)		Dfb (dB)	Dbr (dB)	Dbü (dB)	Dra (dB)	
UPRR			85.0	85.0						
UPRR			78.0	78.0						

### Zugklassen

Name	M. ID	Lm,E		Train Class										Add.Level				Vmax	
		Day	Night	Type	p	Number of Trains			v	l	Dfz	Dae	Lm,E,i (dB)		Dfb	Dbr	Dbü		Dra
		(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night	(dB)	(dB)	(dB)		(dB)
UPRR		85.0	85.0																
UPRR		78.0	78.0																

Name	Lm,E		Train Class										
	Day	Night	Type	p	Number of Trains			v	l	Dfz	Dae	Lm,E,i (dB)	
	(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night

### Parkplätze

Name	M. ID	Type	Lwa			Event Data							Penalty Type		Penalty Surface		A
			Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ			Kpa	Type	Kstro	Surface		
			(dBA)	(dBA)	(dBA)				Day	Special	Night					(dB)	

### Strassen

Name	M. ID	Lme			Count Data		exact Count Data						Speed Limit		SCS Dist.	Ds (c)
		Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto (km/h)	Truck (km/h)		
		(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night				
Los Carneros Road		70.2	0.0	0.0			3333.0	0.0	0.0	5.0	0.0	0.0	72		RQ 20	
US 101 SB Onramp		66.2	0.0	0.0			1339.0	0.0	0.0	5.0	0.0	0.0	72		RQ 12	
US 101 SB Offramp		61.8	0.0	0.0			190.0	0.0	0.0	5.0	0.0	0.0	100		RQ 12	
US 101 SB		77.0	0.0	0.0			4925.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 SB		77.0	0.0	0.0			4925.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 NB		76.2	0.0	0.0			4099.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 NB		76.2	0.0	0.0			4099.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	

### Ampeln

Name	M. ID	Active			Height	Coordinates		
		Day	Evening	Night	Begin	X	Y	Z
					(m)	(m)	(m)	(m)

### Immissionspunkte

Name	M. ID	Level Lr		Limit. Value		Land Use			Height (m)	Coordinates		
		Day	Night	Day	Night	Type	Auto	Noise Type		X	Y	Z
		(dBA)	(dBA)	(dBA)	(dBA)					(m)	(m)	(m)
R 7-1B		69.0	67.7	0.0	0.0	x	Total	4.55	r	11238158.88	3814274.45	13.12
R 7-2B		69.0	67.7	0.0	0.0	x	Total	4.55	r	11238145.19	3814273.08	13.22
R 7-3B		69.0	67.8	0.0	0.0	x	Total	4.55	r	11238128.68	3814272.48	13.35
R 7-4B		69.0	67.7	0.0	0.0	x	Total	4.55	r	11238111.97	3814270.98	13.46
R 7-5B		66.1	64.8	0.0	0.0	x	Total	4.55	r	11238105.86	3814263.69	13.40
R 7-6B		62.3	60.7	0.0	0.0	x	Total	4.55	r	11238107.53	3814258.72	13.41
R 7-7B		57.5	55.3	0.0	0.0	x	Total	4.55	r	11238109.36	3814250.46	13.40
R 7-8B		46.4	45.4	0.0	0.0	x	Total	4.55	r	11238117.34	3814245.69	13.37
R 7-9B		46.2	45.3	0.0	0.0	x	Total	4.55	r	11238129.68	3814247.19	13.34
R 7-10B		51.0	50.5	0.0	0.0	x	Total	4.55	r	11238139.98	3814238.42	13.34
R 7-11B		50.9	50.4	0.0	0.0	x	Total	4.55	r	11238132.71	3814238.00	13.35
R 7-12B		50.8	50.1	0.0	0.0	x	Total	4.55	r	11238122.29	3814237.03	13.36
R 7-13B		56.0	54.0	0.0	0.0	x	Total	4.55	r	11238115.68	3814231.37	13.38
R 7-14B		55.7	54.0	0.0	0.0	x	Total	4.55	r	11238117.37	3814222.06	13.37
R 7-15B		50.2	49.6	0.0	0.0	x	Total	4.55	r	11238124.18	3814211.84	13.35
R 7-16B		62.3	59.3	0.0	0.0	x	Total	4.55	r	11238167.78	3814224.98	13.22
R 7-17B		59.9	57.0	0.0	0.0	x	Total	4.55	r	11238165.37	3814240.73	13.32
R 7-18B		64.6	62.3	0.0	0.0	x	Total	4.55	r	11238167.76	3814253.05	13.36
R 7-19B		66.3	64.2	0.0	0.0	x	Total	4.55	r	11238163.26	3814267.75	13.20
R 8-1B		68.0	66.7	0.0	0.0	x	Total	4.55	r	11238095.94	3814262.98	13.51
R 8-2B		68.0	66.8	0.0	0.0	x	Total	4.55	r	11238091.05	3814262.56	13.67

Name	M. ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
		Day	Night	Day	Night	Type	Auto	Noise Type			X	Y	Z
		(dBA)	(dBA)	(dBA)	(dBA)				(m)		(m)	(m)	(m)
R 8-3B		67.9	66.6	0.0	0.0		x	Total	4.55	r	11238082.91	3814260.93	13.93
R 8-4B		68.1	66.8	0.0	0.0		x	Total	4.55	r	11238077.03	3814261.14	14.13
R 8-5B		68.0	66.7	0.0	0.0		x	Total	4.55	r	11238070.78	3814259.57	14.31
R 8-6B		67.6	66.3	0.0	0.0		x	Total	4.55	r	11238063.82	3814257.53	14.46
R 8-7B		68.1	66.9	0.0	0.0		x	Total	4.55	r	11238058.76	3814259.29	14.55
R 8-8B		68.1	66.9	0.0	0.0		x	Total	4.55	r	11238051.34	3814258.62	14.69
R 8-9B		68.1	66.9	0.0	0.0		x	Total	4.55	r	11238044.92	3814258.04	14.81
R 8-10B		68.2	66.9	0.0	0.0		x	Total	4.55	r	11238038.91	3814257.62	14.92
R 8-11B		66.5	65.1	0.0	0.0		x	Total	4.55	r	11238035.70	3814252.75	14.98
R 8-12B		58.3	56.4	0.0	0.0		x	Total	4.55	r	11238036.20	3814245.83	14.98
R 8-13B		64.2	62.4	0.0	0.0		x	Total	4.55	r	11238034.70	3814242.25	15.02
R 8-14B		64.2	62.4	0.0	0.0		x	Total	4.55	r	11238034.12	3814238.16	15.02
R 8-15B		50.0	49.5	0.0	0.0		x	Total	4.55	r	11238037.20	3814235.58	14.95
R 8-16B		46.3	44.7	0.0	0.0		x	Total	4.55	r	11238041.79	3814233.08	14.82
R 8-17B		46.2	44.7	0.0	0.0		x	Total	4.55	r	11238050.79	3814234.66	14.60
R 8-18B		45.7	44.0	0.0	0.0		x	Total	4.55	r	11238073.05	3814235.66	14.03
R 8-19B		46.1	44.0	0.0	0.0		x	Total	4.55	r	11238092.32	3814237.58	13.54
R 8-20B		47.1	44.1	0.0	0.0		x	Total	4.55	r	11238097.48	3814238.25	13.40
R 8-21B		47.5	46.7	0.0	0.0		x	Total	4.55	r	11238099.57	3814242.92	13.39
R 8-22B		47.7	46.9	0.0	0.0		x	Total	4.55	r	11238099.32	3814249.25	13.39
R 8-23B		46.9	46.2	0.0	0.0		x	Total	4.55	r	11238100.15	3814252.50	13.39
R 8-24B		64.4	62.5	0.0	0.0		x	Total	4.55	r	11238100.82	3814257.51	13.39
R 5-1B		68.0	66.6	0.0	0.0		x	Total	4.55	r	11238006.18	3814253.15	15.28
R 5-2B		68.3	67.0	0.0	0.0		x	Total	4.55	r	11238001.34	3814253.81	15.33
R 5-3B		67.8	66.4	0.0	0.0		x	Total	4.55	r	11237996.01	3814250.31	15.43
R 5-4B		68.0	66.6	0.0	0.0		x	Total	4.55	r	11237988.02	3814249.60	15.47
R 5-5B		67.1	65.3	0.0	0.0		x	Total	4.55	r	11237984.83	3814247.14	15.47
R 5-6B		68.1	66.7	0.0	0.0		x	Total	4.55	r	11237979.50	3814249.06	15.48
R 5-7B		67.8	66.2	0.0	0.0		x	Total	4.55	r	11237972.41	3814248.34	15.50
R 5-8B		68.4	67.1	0.0	0.0		x	Total	4.55	r	11237966.91	3814250.73	15.46
R 5-9B		68.3	66.9	0.0	0.0		x	Total	4.55	r	11237962.02	3814249.08	15.48
R 5-10B		65.5	64.0	0.0	0.0		x	Total	4.55	r	11237960.24	3814244.31	15.55
R 5-11B		63.1	61.2	0.0	0.0		x	Total	4.55	r	11237961.24	3814232.50	15.55
R 5-12B		61.7	59.7	0.0	0.0		x	Total	4.55	r	11237962.10	3814224.53	15.55
R 5-13B		51.4	49.5	0.0	0.0		x	Total	4.55	r	11237965.48	3814220.85	15.55
R 5-14B		51.5	48.7	0.0	0.0		x	Total	4.55	r	11237969.18	3814220.11	15.58
R 5-15B		50.5	49.8	0.0	0.0		x	Total	4.55	r	11237984.40	3814224.30	15.67
R 5-16B		51.1	49.3	0.0	0.0		x	Total	4.55	r	11238003.88	3814223.39	15.82
R 5-17B		51.1	50.4	0.0	0.0		x	Total	4.55	r	11238008.63	3814224.56	15.82
R 5-18B		63.5	61.1	0.0	0.0		x	Total	4.55	r	11238010.32	3814229.42	15.73
R 5-19B		64.5	62.2	0.0	0.0		x	Total	4.55	r	11238009.29	3814238.06	15.54
R 5-20B		66.0	63.9	0.0	0.0		x	Total	4.55	r	11238008.49	3814249.18	15.31
R4-1B		65.7	63.5	0.0	0.0		x	Total	4.55	r	11237949.84	3814242.00	15.55
R4-2B		68.2	66.9	0.0	0.0		x	Total	4.55	r	11237947.43	3814247.77	15.57
R4-3B		68.5	67.2	0.0	0.0		x	Total	4.55	r	11237941.96	3814248.40	15.63
R4-4B		68.0	66.7	0.0	0.0		x	Total	4.55	r	11237937.34	3814245.25	15.67
R4-5B		68.3	66.9	0.0	0.0		x	Total	4.55	r	11237929.36	3814244.20	15.76
R4-6B		67.1	65.6	0.0	0.0		x	Total	4.55	r	11237924.74	3814241.89	15.80
R4-7B		68.4	67.1	0.0	0.0		x	Total	4.55	r	11237921.16	3814243.89	15.84
R4-8B		67.8	66.4	0.0	0.0		x	Total	4.55	r	11237913.18	3814243.26	15.92
R4-9B		68.9	67.6	0.0	0.0		x	Total	4.55	r	11237907.93	3814245.36	15.98
R4-10B		68.8	67.5	0.0	0.0		x	Total	4.55	r	11237903.22	3814243.82	16.03
R4-11B		67.3	65.5	0.0	0.0		x	Total	4.55	r	11237901.39	3814239.15	16.05
R4-12B		66.9	65.0	0.0	0.0		x	Total	4.55	r	11237901.89	3814232.81	16.05
R4-13B		66.7	64.7	0.0	0.0		x	Total	4.55	r	11237902.64	3814226.72	16.03
R4-14B		66.5	64.5	0.0	0.0		x	Total	4.55	r	11237903.14	3814220.22	16.08
R4-15B		60.1	50.5	0.0	0.0		x	Total	4.55	r	11237905.89	3814215.30	16.10
R4-16B		59.5	50.4	0.0	0.0		x	Total	4.55	r	11237910.23	3814214.63	16.05
R4-17B		53.0	49.4	0.0	0.0		x	Total	4.55	r	11237915.31	3814218.22	15.93
R4-18B		53.8	48.9	0.0	0.0		x	Total	4.55	r	11237923.65	3814218.89	15.80
R4-19B		53.6	48.8	0.0	0.0		x	Total	4.55	r	11237931.41	3814219.39	15.69
R4-20B		52.6	48.0	0.0	0.0		x	Total	4.55	r	11237938.41	3814220.14	15.60
R4-21B		52.4	48.0	0.0	0.0		x	Total	4.55	r	11237944.50	3814217.80	15.55

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)		(m)	(m)	(m)
R4-22B			49.2	48.2	0.0	0.0		x	Total	4.55	r	11237949.25	3814219.14	15.55
R4-23B			62.0	59.7	0.0	0.0		x	Total	4.55	r	11237951.00	3814224.81	15.55
R4-24B			63.9	61.7	0.0	0.0		x	Total	4.55	r	11237950.00	3814235.23	15.55
R3-1B			60.6	59.3	0.0	0.0		x	Total	4.55	r	11237930.46	3814204.31	16.05
R3-2B			61.4	60.0	0.0	0.0		x	Total	4.55	r	11237924.19	3814204.84	16.09
R3-3B			64.0	62.6	0.0	0.0		x	Total	4.55	r	11237913.90	3814205.68	16.15
R3-4B			65.8	64.0	0.0	0.0		x	Total	4.55	r	11237906.25	3814205.88	16.19
R3-5B			66.0	64.0	0.0	0.0		x	Total	4.55	r	11237903.92	3814198.64	16.13
R3-6B			65.3	63.1	0.0	0.0		x	Total	4.55	r	11237906.41	3814190.27	16.05
R3-7B			65.4	63.3	0.0	0.0		x	Total	4.55	r	11237905.92	3814184.34	16.05
R3-8B			65.4	63.3	0.0	0.0		x	Total	4.55	r	11237905.28	3814175.17	16.05
R3-10B			65.3	63.0	0.0	0.0		x	Total	4.55	r	11237904.36	3814159.15	16.05
R3-11B			65.2	63.0	0.0	0.0		x	Total	4.55	r	11237903.89	3814152.34	16.05
R3-12B			65.4	63.2	0.0	0.0		x	Total	4.55	r	11237900.93	3814146.17	16.09
R3-13B			65.0	62.8	0.0	0.0		x	Total	4.55	r	11237901.77	3814140.17	16.12
R3-14B			57.0	47.7	0.0	0.0		x	Total	4.55	r	11237904.96	3814138.70	16.12
R3-15B			54.9	48.1	0.0	0.0		x	Total	4.55	r	11237916.26	3814137.67	16.08
R3-16B			53.5	47.4	0.0	0.0		x	Total	4.55	r	11237926.46	3814137.10	16.05
R3-17B			54.1	52.8	0.0	0.0		x	Total	4.55	r	11237930.11	3814142.83	16.05
R3-18B			54.0	53.3	0.0	0.0		x	Total	4.55	r	11237928.78	3814169.17	16.05
R3-19B			53.9	53.3	0.0	0.0		x	Total	4.55	r	11237929.78	3814185.83	16.05
R3-20B			54.8	54.3	0.0	0.0		x	Total	4.55	r	11237932.95	3814200.50	16.05
R2-1B			61.4	60.4	0.0	0.0		x	Total	4.55	r	11237916.87	3814093.05	12.19
R2-2B			61.2	60.3	0.0	0.0		x	Total	4.55	r	11237911.83	3814086.96	12.21
R2-3B			61.1	60.2	0.0	0.0		x	Total	4.55	r	11237907.84	3814085.07	12.20
R2-4B			60.9	60.0	0.0	0.0		x	Total	4.55	r	11237903.85	3814080.45	12.22
R2-5B			58.8	57.6	0.0	0.0		x	Total	4.55	r	11237905.11	3814076.46	12.25
R2-6B			51.4	46.0	0.0	0.0		x	Total	4.55	r	11237911.41	3814071.62	12.10
R2-7B			52.8	49.3	0.0	0.0		x	Total	4.55	r	11237917.71	3814065.53	11.97
R2-8B			54.7	52.3	0.0	0.0		x	Total	4.55	r	11237924.85	3814058.18	11.96
R2-9B			53.5	50.8	0.0	0.0		x	Total	4.55	r	11237931.15	3814054.19	11.97
R2-10B			50.0	43.1	0.0	0.0		x	Total	4.55	r	11237936.41	3814052.93	11.99
R2-11B			55.7	54.1	0.0	0.0		x	Total	4.55	r	11237933.89	3814046.84	11.92
R2-12B			57.8	56.6	0.0	0.0		x	Total	4.55	r	11237929.05	3814041.59	11.84
R2-13B			59.4	58.3	0.0	0.0		x	Total	4.55	r	11237922.96	3814033.40	11.72
R2-14B			59.8	58.8	0.0	0.0		x	Total	4.55	r	11237915.40	3814023.32	11.62
R2-15B			59.8	58.7	0.0	0.0		x	Total	4.55	r	11237910.36	3814016.60	11.61
R2-16B			59.9	59.1	0.0	0.0		x	Total	4.55	r	11237904.69	3814008.41	11.59
R2-17B			55.7	54.1	0.0	0.0		x	Total	4.55	r	11237905.53	3814001.90	11.53
R2-18B			53.8	51.2	0.0	0.0		x	Total	4.55	r	11237908.89	3813998.96	11.48
R2-19B			52.8	49.4	0.0	0.0		x	Total	4.55	r	11237914.35	3813994.34	11.43
R2-20B			52.0	47.6	0.0	0.0		x	Total	4.55	r	11237917.92	3813991.82	11.39
R2-21B			45.1	44.9	0.0	0.0		x	Total	4.55	r	11237925.48	3813995.60	11.30
R2-22B			45.3	45.1	0.0	0.0		x	Total	4.55	r	11237935.78	3814009.04	11.50
R2-23B			45.5	45.2	0.0	0.0		x	Total	4.55	r	11237947.96	3814024.79	11.73
R2-24B			45.9	45.6	0.0	0.0		x	Total	4.55	r	11237960.56	3814040.96	11.97
R2-25B			55.3	54.2	0.0	0.0		x	Total	4.55	r	11237962.45	3814056.29	12.13
R2-26B			58.5	57.6	0.0	0.0		x	Total	4.55	r	11237951.11	3814068.68	12.12
R2-27B			58.4	57.4	0.0	0.0		x	Total	4.55	r	11237956.15	3814064.69	12.13
R2-28B			58.3	57.6	0.0	0.0		x	Total	4.55	r	11237941.24	3814076.04	12.13
R2-29B			59.5	58.8	0.0	0.0		x	Total	4.55	r	11237935.57	3814081.92	12.14
R2-30B			60.7	60.0	0.0	0.0		x	Total	4.55	r	11237927.16	3814088.22	12.14
R6-1B			56.1	55.3	0.0	0.0		x	Total	4.55	r	11238102.76	3814182.07	13.71
R6-2B			56.2	55.3	0.0	0.0		x	Total	4.55	r	11238087.19	3814180.63	13.90
R6-3B			58.3	56.9	0.0	0.0		x	Total	4.55	r	11238054.90	3814177.76	14.15
R6-4B			58.5	57.0	0.0	0.0		x	Total	4.55	r	11238037.24	3814169.05	13.93
R6-5B			58.1	56.6	0.0	0.0		x	Total	4.55	r	11238038.29	3814157.89	13.77
R6-6B			45.8	42.0	0.0	0.0		x	Total	4.55	r	11238050.67	3814151.80	13.62
R1-1B			60.8	59.2	0.0	0.0		x	Total	4.55	r	11237833.27	3813996.54	11.88
R1-2B			63.0	60.4	0.0	0.0		x	Total	4.55	r	11237824.45	3813983.73	11.96
R1-3B			59.0	42.8	0.0	0.0		x	Total	4.55	r	11237833.27	3813973.23	12.10
R1-4B			55.5	42.4	0.0	0.0		x	Total	4.55	r	11237867.71	3813948.03	12.05
R1-5B			44.7	44.0	0.0	0.0		x	Total	4.55	r	11237883.04	3813953.70	11.93

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	r	X	Y	Z	
			(dBA)	(dBA)	(dBA)	(dBA)			(m)					(m)
R1-6B			60.0	59.2	0.0	0.0		x	Total	4.55	r	11237889.97	3813979.95	11.86
R1-7B			60.5	59.5	0.0	0.0		x	Total	4.55	r	11237880.10	3813982.05	11.87
R1-8B			60.4	59.6	0.0	0.0		x	Total	4.55	r	11237872.75	3813973.02	11.94
R1-9B			60.9	59.9	0.0	0.0		x	Total	4.55	r	11237860.99	3813977.22	11.95
R1-10B			61.3	60.2	0.0	0.0		x	Total	4.55	r	11237843.77	3813990.45	11.93

### Gebietsausweisungen

Name	M.	ID	Type	Persons
				(1/km <sup>2</sup> )

### Hindernisse

#### Schirme

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height	
			left	right		horz.	vert.	Begin	End
					(m)	(m)	(m)	(m)	

#### Häuser

Name	M.	ID	RB	Residents	Absorption	Height	
						Begin	
						(m)	
			x	0		3.65	r
			x	0		3.65	r
			x	0		6.70	r
			x	0		6.70	r
			x	0		9.75	r
			x	0		9.75	r
			x	0		4.60	r
			x	0		6.70	r
			x	0		9.75	r
			x	0		9.75	r
			x	0		4.60	r
			x	0		9.75	r

#### Bewuchs

Name	M.	ID	Height
			(m)

#### Bebauung

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

### Geometriedaten

#### Geometrie Linienquellen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

#### Geometrie Flächenquellen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Parkplätze

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Straßen

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)		
Los Carneros Road			11237697.29	3813908.86	7.62	7.60		
			11237759.07	3813961.83	10.67	10.70		
			11237782.99	3813989.66	10.67	11.00		
			11237808.40	3814029.18	12.50	12.50		
			11237829.81	3814079.44	12.80	14.00		
			11237845.52	3814131.11	14.33	16.00		
			11237849.30	3814230.44	14.94	18.50		
			11237851.61	3814289.45	16.76	21.30		
			11237854.07	3814329.87	18.29	21.50		
			11237857.43	3814385.23	18.29	18.29		
			11237861.66	3814452.97	16.46	16.46		
US 101 SB Onramp			11237862.91	3814329.11	14.33	21.50		
			11237917.30	3814334.68	14.63	19.00		
			11237998.36	3814343.08	14.63	15.80		
			11238188.34	3814363.72	10.36	12.20		
			11238396.35	3814383.05	9.75	10.40		
US 101 SB Offramp			11237577.38	3814297.86	12.19	12.19		
			11237682.81	3814309.20	14.33	14.33		
			11237760.93	3814317.60	14.33	18.00		
			11237844.93	3814327.68	14.00	21.50		
US 101 SB			11237580.17	3814319.88	12.80	12.80		
			11237676.48	3814338.40	12.50	12.50		
			11237752.15	3814353.33	12.19	12.19		
			11237789.19	3814359.46	12.19	12.19		
			11237847.26	3814365.39	12.50	12.50		
US 101 SB			11237865.59	3814369.12	12.50	12.50		
			11237906.40	3814372.39	11.28	11.28		
			11237997.12	3814376.59	10.97	10.97		
			11238183.92	3814379.77	10.97	10.97		
			11238395.93	3814392.44	10.36	10.36		
US 101 NB			11238394.07	3814413.64	9.14	9.14		
			11238181.55	3814403.56	9.75	9.75		
			11237995.91	3814396.84	11.28	11.28		
			11237901.83	3814389.28	10.67	10.67		
			11237866.49	3814386.68	12.50	12.50		
US 101 NB			11237847.87	3814383.91	12.50	12.50		
			11237786.75	3814375.84	12.19	12.19		
			11237748.95	3814369.96	12.19	12.19		
			11237674.19	3814356.52	13.11	13.11		
			11237577.59	3814337.20	12.50	12.50		

### Geometrie Schienen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)
UPRR	12.50	a 12.50	a 11237570.03	3814262.43	12.50	1.25
			11237838.85	3814285.11	12.50	11.18
UPRR	12.50	a 8.53	a 11237861.86	3814287.47	12.50	11.58
			11238395.28	3814332.85	8.53	0.89

### Geometrie Schirme

Name	M.	ID	Absorption		Z-Ext. (m)	Cantilever		Height		Coordinates			
			left	right		horz. (m)	vert. (m)	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)
										11237881.18	3814251.51	15.51	13.10
										11237882.02	3814269.67	14.31	11.90
										11237895.41	3814270.84	14.01	11.60
										11237911.06	3814272.16	13.41	11.00
										11237945.61	3814275.47	13.41	11.00
										11237961.46	3814277.18	13.11	10.70
										11238006.41	3814281.33	12.91	10.50
										11238074.37	3814287.71	12.51	10.10
										11238128.78	3814292.54	11.56	9.15
										11238169.64	3814296.43	10.95	8.54
										11238187.40	3814297.69	11.56	9.15
										11237881.09	3814251.78	14.93	13.10
										11237881.20	3814249.85	14.93	13.10
										11237880.31	3814214.13	14.93	13.10
										11237879.47	3814200.69	15.23	13.40
										11237878.61	3814185.47	15.53	13.70
										11237876.44	3814158.13	14.63	12.80
										11237871.49	3814129.70	15.23	13.40
										11237862.61	3814092.28	16.70	14.90
										11237859.87	3814081.36	15.83	14.00
										11237854.83	3814065.92	15.53	13.70
										11237846.22	3814043.24	14.13	12.30
										11237832.15	3814014.88	13.73	11.90
										11237818.29	3813991.15	12.63	10.80
										11237814.77	3813985.80	12.63	10.80
										11237811.44	3813980.79	12.63	10.80

### Geometrie Häuser

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates				
							x (m)	y (m)	z (m)	Ground (m)	
						3.65	r	11238188.92	3814297.40	12.80	9.15
								11238194.21	3814297.14	12.80	9.21
								11238193.42	3814235.75	12.80	8.41
								11238220.94	3814234.69	12.80	8.50
								11238220.67	3814227.01	12.80	8.34
								11238187.86	3814229.66	12.80	8.27
								11238189.18	3814297.40	12.80	9.15
			x	0		3.65	r	11238198.18	3814176.74	11.11	7.46
								11238200.30	3814224.10	11.11	8.31
								11238237.34	3814223.31	11.11	8.24
								11238236.55	3814196.05	11.11	7.69
								11238223.32	3814196.32	11.11	7.71
								11238222.79	3814175.68	11.11	7.29
			x	0		6.70	r	11237903.99	3814215.91	18.27	11.57
								11237901.32	3814243.25	18.27	11.50
								11237905.31	3814243.57	18.27	11.46
								11237905.26	3814244.72	18.27	11.46
								11237909.41	3814244.98	18.27	11.42
								11237909.83	3814239.79	18.27	11.40
								11237911.82	3814239.94	18.27	11.38
								11237911.77	3814242.25	18.27	11.39
								11237923.27	3814243.15	18.27	11.27
								11237923.43	3814240.99	18.27	11.26
								11237927.52	3814241.41	18.27	11.22
								11237927.31	3814243.51	18.27	11.23
								11237939.07	3814244.68	18.27	11.11
								11237939.22	3814242.53	18.27	11.10
								11237941.17	3814242.68	18.27	11.08
								11237940.69	3814247.83	18.27	11.10
								11237944.63	3814248.15	18.27	11.05
								11237944.74	3814246.83	18.27	11.05

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237948.73	3814247.15	18.27	11.01
							11237951.25	3814219.58	18.27	11.00
							11237947.26	3814219.27	18.27	11.00
							11237947.34	3814218.14	18.27	11.00
							11237943.38	3814217.89	18.27	11.00
							11237942.88	3814222.85	18.27	11.01
							11237941.01	3814222.81	18.27	11.03
							11237941.13	3814220.39	18.27	11.03
							11237913.61	3814218.28	18.27	11.40
							11237913.48	3814220.39	18.27	11.37
							11237911.36	3814220.19	18.27	11.41
							11237911.89	3814215.23	18.27	11.47
							11237907.92	3814214.84	18.27	11.53
							11237907.79	3814215.89	18.27	11.52
							11237903.82	3814215.50	18.27	11.57
			x	0		6.70	r 11237960.36	3814248.60	17.64	10.94
							11237964.18	3814248.92	17.64	10.94
							11237964.17	3814249.98	17.64	10.92
							11237968.27	3814250.40	17.64	10.92
							11237968.69	3814245.25	17.64	10.97
							11237970.58	3814245.46	17.64	10.96
							11237970.37	3814247.66	17.64	10.96
							11237982.13	3814248.71	17.64	10.93
							11237982.45	3814246.30	17.64	10.93
							11237986.44	3814246.72	17.64	10.93
							11237986.23	3814249.03	17.64	10.91
							11237997.99	3814249.98	17.64	10.87
							11237998.10	3814247.77	17.64	10.91
							11237999.99	3814247.98	17.64	10.88
							11237999.57	3814253.13	17.64	10.80
							11238004.30	3814253.65	17.64	10.75
							11238004.33	3814252.58	17.64	10.75
							11238007.69	3814252.90	17.64	10.71
							11238010.07	3814225.08	17.64	11.27
							11238006.19	3814224.87	17.64	11.24
							11238006.29	3814223.72	17.64	11.26
							11238002.14	3814223.44	17.64	11.26
							11238001.77	3814228.23	17.64	11.21
							11237999.88	3814228.13	17.64	11.20
							11238000.02	3814226.06	17.64	11.22
							11237972.62	3814223.61	17.64	11.03
							11237972.36	3814225.92	17.64	11.01
							11237970.47	3814225.82	17.64	10.99
							11237971.00	3814220.46	17.64	11.05
							11237967.11	3814219.93	17.64	11.02
							11237966.80	3814221.40	17.64	11.00
							11237962.80	3814220.88	17.64	11.00
			x	0		9.75	r 11238034.68	3814235.95	20.20	10.45
							11238034.15	3814241.31	20.20	10.48
							11238035.41	3814241.31	20.20	10.45
							11238034.89	3814244.67	20.20	10.46
							11238036.99	3814244.88	20.20	10.42
							11238036.78	3814247.40	20.20	10.42
							11238034.26	3814247.29	20.20	10.46
							11238034.26	3814248.66	20.20	10.45
							11238036.57	3814248.97	20.20	10.42
							11238036.04	3814253.91	20.20	10.43
							11238037.51	3814254.12	20.20	10.40
							11238037.30	3814256.75	20.20	10.40
							11238046.44	3814257.59	20.20	10.23
							11238046.65	3814255.28	20.20	10.23
							11238048.96	3814255.49	20.20	10.18
							11238048.86	3814257.80	20.20	10.18



Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238060.52	3814258.85	20.20	9.97
							11238060.83	3814256.64	20.20	9.96
							11238065.56	3814257.06	20.20	9.87
							11238065.45	3814257.80	20.20	9.88
							11238069.44	3814258.11	20.20	9.78
							11238069.23	3814258.85	20.20	9.79
							11238072.65	3814259.11	20.20	9.71
							11238072.49	3814260.21	20.20	9.72
							11238081.66	3814261.05	20.20	9.43
							11238081.66	3814260.05	20.20	9.42
							11238084.75	3814260.46	20.20	9.32
							11238085.16	3814256.30	20.20	9.30
							11238090.42	3814257.05	20.20	9.13
							11238089.92	3814261.88	20.20	9.16
							11238096.58	3814262.38	20.20	8.94
							11238096.75	3814259.05	20.20	8.93
							11238100.34	3814259.38	20.20	8.84
							11238101.09	3814253.71	20.20	8.84
							11238099.67	3814253.54	20.20	8.84
							11238099.92	3814250.54	20.20	8.84
							11238098.84	3814250.54	20.20	8.84
							11238099.00	3814247.71	20.20	8.84
							11238101.42	3814247.96	20.20	8.84
							11238101.25	3814246.21	20.20	8.84
							11238098.84	3814246.04	20.20	8.84
							11238099.25	3814241.12	20.20	8.84
							11238098.42	3814241.12	20.20	8.84
							11238098.50	3814238.70	20.20	8.84
							11238090.33	3814237.95	20.20	9.05
							11238090.33	3814238.70	20.20	9.05
							11238087.16	3814238.54	20.20	9.13
							11238087.33	3814237.37	20.20	9.12
							11238078.16	3814236.45	20.20	9.35
							11238077.99	3814237.37	20.20	9.36
							11238074.66	3814237.12	20.20	9.45
							11238074.74	3814236.04	20.20	9.44
							11238069.91	3814235.79	20.20	9.56
							11238069.82	3814236.79	20.20	9.57
							11238063.74	3814236.12	20.20	9.73
							11238063.74	3814235.16	20.20	9.72
							11238054.52	3814234.22	20.20	9.95
							11238054.48	3814235.37	20.20	9.96
							11238045.56	3814234.62	20.20	10.19
							11238045.56	3814233.62	20.20	10.18
							11238038.48	3814233.12	20.20	10.36
							11238038.14	3814236.12	20.20	10.38
			x	0		9.75	11238106.23	3814266.67	18.61	8.86
							11238109.59	3814266.88	18.61	8.88
							11238109.38	3814269.82	18.61	8.89
							11238116.31	3814270.66	18.61	8.90
							11238117.26	3814265.51	18.61	8.88
							11238122.10	3814265.85	18.61	8.84
							11238121.84	3814270.15	18.61	8.85
							11238124.75	3814270.28	18.61	8.83
							11238124.82	3814271.34	18.61	8.83
							11238134.15	3814272.07	18.61	8.76
							11238134.21	3814270.94	18.61	8.75
							11238137.45	3814271.34	18.61	8.73
							11238137.19	3814272.40	18.61	8.73
							11238141.94	3814272.82	18.61	8.69
							11238141.94	3814271.82	18.61	8.69
							11238148.11	3814272.57	18.61	8.64
							11238148.28	3814273.48	18.61	8.64

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
						11238152.86	3814273.98	18.61	8.61	
						11238152.95	3814273.07	18.61	8.60	
						11238160.89	3814273.86	18.61	8.58	
						11238161.15	3814270.95	18.61	8.61	
						11238162.54	3814271.08	18.61	8.61	
						11238162.81	3814266.25	18.61	8.66	
						11238165.25	3814266.45	18.61	8.66	
						11238165.32	3814264.80	18.61	8.68	
						11238162.87	3814264.66	18.61	8.68	
						11238163.14	3814262.15	18.61	8.70	
						11238166.25	3814262.55	18.61	8.71	
						11238166.31	3814260.89	18.61	8.72	
						11238164.13	3814260.69	18.61	8.72	
						11238164.33	3814258.31	18.61	8.75	
						11238166.64	3814258.51	18.61	8.75	
						11238167.64	3814247.33	18.61	8.82	
						11238167.64	3814246.00	18.61	8.81	
						11238163.72	3814245.67	18.61	8.81	
						11238163.89	3814241.75	18.61	8.78	
						11238164.78	3814241.78	18.61	8.78	
						11238165.04	3814238.54	18.61	8.76	
						11238166.23	3814238.71	18.61	8.76	
						11238166.30	3814237.48	18.61	8.75	
						11238163.76	3814237.28	18.61	8.75	
						11238164.02	3814234.21	18.61	8.72	
						11238166.47	3814234.47	18.61	8.72	
						11238166.66	3814232.95	18.61	8.71	
						11238163.36	3814232.75	18.61	8.71	
						11238163.42	3814229.77	18.61	8.69	
						11238164.61	3814229.77	18.61	8.69	
						11238164.75	3814227.19	18.61	8.67	
						11238167.00	3814227.39	18.61	8.67	
						11238167.59	3814220.78	18.61	8.66	
						11238163.95	3814220.38	18.61	8.62	
						11238164.27	3814217.23	18.61	8.59	
						11238156.28	3814216.81	18.61	8.60	
						11238156.18	3814215.44	18.61	8.59	
						11238151.56	3814214.92	18.61	8.62	
						11238151.45	3814216.18	18.61	8.62	
						11238145.15	3814215.65	18.61	8.65	
						11238145.25	3814214.60	18.61	8.65	
						11238136.01	3814213.87	18.61	8.71	
						11238136.01	3814214.60	18.61	8.71	
						11238132.86	3814214.50	18.61	8.73	
						11238132.54	3814218.38	18.61	8.73	
						11238126.87	3814218.07	18.61	8.77	
						11238127.40	3814213.03	18.61	8.78	
						11238120.78	3814212.50	18.61	8.82	
						11238120.58	3814215.48	18.61	8.81	
						11238117.10	3814215.13	18.61	8.84	
						11238116.49	3814220.84	18.61	8.83	
						11238117.73	3814220.90	18.61	8.82	
						11238117.52	3814223.95	18.61	8.82	
						11238118.78	3814224.05	18.61	8.81	
						11238118.50	3814226.50	18.61	8.81	
						11238116.47	3814226.37	18.61	8.82	
						11238116.05	3814232.93	18.61	8.82	
						11238119.15	3814233.30	18.61	8.80	
						11238118.89	3814236.34	18.61	8.81	
						11238126.87	3814236.97	18.61	8.80	
						11238127.06	3814235.74	18.61	8.79	
						11238130.34	3814236.03	18.61	8.79	
						11238130.23	3814237.29	18.61	8.80	

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238135.07	3814237.81	18.61	8.79
							11238135.16	3814236.77	18.61	8.79
							11238137.87	3814236.95	18.61	8.78
							11238137.94	3814238.01	18.61	8.79
							11238142.84	3814238.34	18.61	8.79
							11238142.93	3814236.78	18.61	8.77
							11238145.70	3814237.04	18.61	8.77
							11238145.57	3814238.45	18.61	8.78
							11238151.09	3814238.63	18.61	8.78
							11238151.37	3814235.03	18.61	8.75
							11238154.39	3814235.19	18.61	8.75
							11238153.66	3814241.91	18.61	8.80
							11238151.03	3814241.70	18.61	8.80
							11238150.79	3814244.75	18.61	8.82
							11238152.42	3814244.85	18.61	8.82
							11238152.29	3814247.48	18.61	8.84
							11238154.60	3814247.79	18.61	8.84
							11238153.93	3814254.00	18.61	8.77
							11238151.03	3814253.68	18.61	8.77
							11238151.24	3814250.00	18.61	8.81
							11238146.30	3814249.58	18.61	8.80
							11238146.24	3814250.82	18.61	8.79
							11238142.93	3814250.81	18.61	8.78
							11238143.05	3814248.84	18.61	8.80
							11238138.53	3814248.42	18.61	8.80
							11238138.53	3814249.37	18.61	8.79
							11238131.60	3814248.74	18.61	8.78
							11238131.49	3814247.79	18.61	8.79
							11238122.57	3814247.06	18.61	8.78
							11238122.57	3814247.79	18.61	8.78
							11238119.62	3814247.69	18.61	8.81
							11238119.83	3814246.43	18.61	8.80
							11238111.96	3814245.80	18.61	8.85
							11238111.75	3814248.53	18.61	8.86
							11238110.17	3814248.63	18.61	8.85
							11238109.75	3814253.57	18.61	8.86
							11238107.44	3814253.47	18.61	8.85
							11238107.23	3814254.94	18.61	8.85
							11238109.65	3814255.15	18.61	8.86
							11238109.44	3814257.67	18.61	8.87
							11238108.17	3814257.77	18.61	8.86
							11238108.17	3814260.61	18.61	8.86
							11238106.70	3814260.61	18.61	8.85
			x	0		4.60 r	11238097.36	3814231.78	13.44	8.84
							11238106.36	3814232.57	13.44	8.84
							11238107.15	3814224.83	13.44	8.84
							11238110.06	3814225.16	13.44	8.84
							11238110.59	3814216.69	13.44	8.84
							11238107.68	3814216.44	13.44	8.84
							11238108.21	3814210.54	13.44	8.84
							11238104.31	3814210.14	13.44	8.84
							11238104.24	3814211.66	13.44	8.84
							11238100.20	3814211.26	13.44	8.84
							11238099.94	3814213.25	13.44	8.84
							11238096.56	3814212.92	13.44	8.84
							11238097.03	3814209.74	13.44	8.84
							11238088.95	3814208.88	13.44	8.87
							11238088.23	3814214.70	13.44	8.86
							11238080.15	3814214.17	13.44	9.07
							11238079.56	3814222.05	13.44	8.98
							11238098.22	3814223.90	13.44	8.84
			x	0		6.70 r	11237905.46	3814205.38	18.34	11.64
							11237914.47	3814205.18	18.34	11.59

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237914.43	3814204.36	18.34	11.58
							11237923.12	3814203.86	18.34	11.53
							11237923.13	3814204.51	18.34	11.54
							11237932.31	3814203.84	18.34	11.50
							11237932.04	3814199.06	18.34	11.50
							11237932.94	3814199.01	18.34	11.50
							11237932.73	3814195.02	18.34	11.50
							11237927.74	3814195.33	18.34	11.50
							11237927.74	3814193.13	18.34	11.50
							11237929.89	3814192.97	18.34	11.50
							11237929.06	3814180.72	18.34	11.50
							11237926.72	3814181.05	18.34	11.50
							11237926.64	3814176.71	18.34	11.50
							11237928.76	3814176.52	18.34	11.50
							11237927.92	3814163.93	18.34	11.50
							11237925.76	3814164.09	18.34	11.50
							11237925.76	3814160.17	18.34	11.50
							11237927.84	3814159.92	18.34	11.50
							11237927.34	3814148.00	18.34	11.50
							11237925.09	3814148.17	18.34	11.50
							11237924.92	3814146.00	18.34	11.50
							11237929.92	3814145.67	18.34	11.50
							11237929.63	3814141.37	18.34	11.50
							11237928.38	3814141.37	18.34	11.50
							11237928.34	3814137.33	18.34	11.50
							11237921.63	3814137.66	18.34	11.51
							11237921.59	3814136.87	18.34	11.52
							11237919.59	3814137.00	18.34	11.52
							11237919.59	3814137.96	18.34	11.52
							11237910.66	3814138.46	18.34	11.55
							11237910.54	3814137.66	18.34	11.55
							11237908.40	3814137.96	18.34	11.56
							11237908.44	3814138.69	18.34	11.55
							11237901.91	3814139.04	18.34	11.58
							11237902.12	3814143.33	18.34	11.55
							11237901.04	3814143.33	18.34	11.56
							11237901.24	3814147.42	18.34	11.53
							11237906.23	3814147.16	18.34	11.52
							11237906.41	3814149.29	18.34	11.50
							11237904.08	3814149.46	18.34	11.51
							11237904.83	3814161.72	18.34	11.50
							11237907.25	3814161.55	18.34	11.50
							11237907.41	3814165.64	18.34	11.50
							11237905.16	3814165.89	18.34	11.50
							11237906.00	3814177.97	18.34	11.50
							11237907.83	3814177.81	18.34	11.50
							11237908.08	3814182.06	18.34	11.50
							11237906.08	3814182.48	18.34	11.50
							11237906.87	3814194.52	18.34	11.52
							11237909.12	3814194.26	18.34	11.50
							11237909.19	3814196.57	18.34	11.53
							11237904.19	3814196.84	18.34	11.55
							11237904.45	3814201.12	18.34	11.60
							11237905.35	3814201.07	18.34	11.60
			x	0		9.75 r	11238039.03	3814154.34	18.89	9.14
							11238038.54	3814160.90	18.89	9.27
							11238040.69	3814161.10	18.89	9.28
							11238040.44	3814163.68	18.89	9.32
							11238039.44	3814163.68	18.89	9.31
							11238039.28	3814166.27	18.89	9.35
							11238037.86	3814166.27	18.89	9.34
							11238037.61	3814172.19	18.89	9.43
							11238040.94	3814172.44	18.89	9.45

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238040.69	3814175.94	18.89	9.50
							11238047.20	3814176.27	18.89	9.55
							11238047.61	3814171.52	18.89	9.48
							11238052.53	3814171.94	18.89	9.48
							11238052.12	3814176.94	18.89	9.58
							11238057.20	3814177.35	18.89	9.59
							11238057.28	3814176.52	18.89	9.57
							11238063.29	3814176.94	18.89	9.55
							11238063.20	3814178.02	18.89	9.57
							11238067.87	3814178.52	18.89	9.55
							11238068.29	3814176.06	18.89	9.50
							11238073.42	3814176.44	18.89	9.48
							11238073.29	3814177.35	18.89	9.50
							11238077.13	3814177.77	18.89	9.45
							11238077.09	3814178.52	18.89	9.46
							11238080.05	3814178.77	18.89	9.42
							11238079.96	3814179.77	18.89	9.43
							11238089.63	3814180.36	18.89	9.31
							11238089.80	3814179.48	18.89	9.30
							11238092.47	3814179.69	18.89	9.27
							11238092.89	3814176.02	18.89	9.23
							11238098.22	3814176.52	18.89	9.16
							11238097.64	3814181.11	18.89	9.21
							11238104.47	3814181.69	18.89	9.13
							11238104.61	3814178.58	18.89	9.10
							11238108.51	3814178.91	18.89	9.06
							11238108.97	3814173.35	18.89	9.01
							11238107.44	3814173.24	18.89	9.01
							11238108.78	3814158.07	18.89	8.86
							11238042.87	3814151.71	18.89	9.08
							11238042.54	3814154.56	18.89	9.14
		x		0		9.75	11237904.07	3814078.49	17.44	7.69
							11237909.95	3814086.21	17.44	7.65
							11237912.05	3814084.16	17.44	7.65
							11237913.15	3814085.47	17.44	7.65
							11237912.42	3814086.21	17.44	7.67
							11237917.51	3814092.72	17.44	7.64
							11237924.66	3814086.79	17.44	7.57
							11237926.07	3814088.52	17.44	7.59
							11237928.99	3814085.74	17.44	7.58
							11237929.44	3814086.26	17.44	7.59
							11237937.05	3814079.91	17.44	7.58
							11237936.21	3814078.86	17.44	7.57
							11237938.31	3814077.12	17.44	7.57
							11237938.68	3814077.60	17.44	7.58
							11237942.20	3814074.81	17.44	7.57
							11237941.25	3814073.66	17.44	7.56
							11237946.14	3814069.72	17.44	7.56
							11237946.77	3814070.35	17.44	7.57
							11237948.66	3814068.56	17.44	7.56
							11237949.60	3814069.46	17.44	7.57
							11237957.06	3814063.26	17.44	7.58
							11237956.22	3814062.21	17.44	7.58
							11237958.47	3814060.48	17.44	7.58
							11237955.38	3814056.64	17.44	7.55
							11237956.54	3814055.59	17.44	7.55
							11237958.64	3814057.90	17.44	7.57
							11237965.99	3814052.23	17.44	7.57
							11237964.24	3814049.73	17.44	7.54
							11237965.57	3814048.56	17.44	7.53
							11237920.72	3813989.94	17.44	6.81
							11237912.53	3813997.09	17.44	6.88
							11237914.31	3813999.19	17.44	6.88

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237913.05	3814000.03	17.44	6.90
							11237911.37	3813997.82	17.44	6.90
							11237903.81	3814004.23	17.44	7.02
							11237905.59	3814006.44	17.44	7.02
							11237904.33	3814007.17	17.44	7.04
							11237907.69	3814011.16	17.44	7.03
							11237909.27	3814009.80	17.44	7.01
							11237910.95	3814012.00	17.44	7.01
							11237910.00	3814012.74	17.44	7.03
							11237911.90	3814014.94	17.44	7.03
							11237910.85	3814015.89	17.44	7.04
							11237917.15	3814023.66	17.44	7.06
							11237918.30	3814022.82	17.44	7.04
							11237921.67	3814027.13	17.44	7.09
							11237920.51	3814028.08	17.44	7.10
							11237926.39	3814036.27	17.44	7.22
							11237927.55	3814035.32	17.44	7.21
							11237930.70	3814039.32	17.44	7.27
							11237929.33	3814040.58	17.44	7.28
							11237932.51	3814044.55	17.44	7.34
							11237933.24	3814044.08	17.44	7.34
							11237935.69	3814047.39	17.44	7.39
							11237937.14	3814045.67	17.44	7.37
							11237938.00	3814046.60	17.44	7.39
							11237938.67	3814046.10	17.44	7.38
							11237941.09	3814049.27	17.44	7.43
							11237942.17	3814049.35	17.44	7.44
							11237941.92	3814050.18	17.44	7.44
							11237942.09	3814051.85	17.44	7.46
							11237939.17	3814053.60	17.44	7.46
							11237938.42	3814053.18	17.44	7.46
							11237935.42	3814055.77	17.44	7.45
							11237934.75	3814055.02	17.44	7.44
							11237934.08	3814055.52	17.44	7.44
							11237932.58	3814053.52	17.44	7.43
							11237929.00	3814056.35	17.44	7.42
							11237929.75	3814057.27	17.44	7.43
							11237927.91	3814058.69	17.44	7.43
							11237927.16	3814057.35	17.44	7.42
							11237919.33	3814063.94	17.44	7.42
							11237920.08	3814064.77	17.44	7.43
							11237916.03	3814068.10	17.44	7.43
							11237915.17	3814067.34	17.44	7.44
							11237914.16	3814068.44	17.44	7.47
							11237915.82	3814070.11	17.44	7.45
							11237914.10	3814071.65	17.44	7.50
							11237913.49	3814070.86	17.44	7.50
							11237909.55	3814074.43	17.44	7.61
							11237909.97	3814074.85	17.44	7.60
							11237907.93	3814076.62	17.44	7.66
							11237906.24	3814074.64	17.44	7.67
							11237905.33	3814075.52	17.44	7.69
							11237906.14	3814076.48	17.44	7.69
			x	0		4.60	r 11237881.78	3814008.79	11.88	7.28
							11237891.07	3814025.96	11.88	7.31
							11237893.17	3814024.65	11.88	7.28
							11237893.49	3814025.39	11.88	7.28
							11237895.54	3814024.13	11.88	7.25
							11237895.22	3814023.60	11.88	7.25
							11237897.43	3814022.39	11.88	7.22
							11237899.74	3814021.08	11.88	7.19
							11237895.70	3814013.52	11.88	7.17
							11237898.69	3814011.78	11.88	7.13

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x (m)	y (m)	z (m)	Ground (m)
							11237895.49	3814005.48	11.88	7.11
							11237897.74	3814004.22	11.88	7.08
							11237895.07	3813999.55	11.88	7.15
							11237893.17	3814000.70	11.88	7.17
							11237892.65	3813999.81	11.88	7.18
							11237891.39	3814000.91	11.88	7.19
							11237890.50	3813999.28	11.88	7.23
							11237887.71	3814001.23	11.88	7.25
							11237888.34	3814002.59	11.88	7.23
							11237886.92	3814003.38	11.88	7.24
							11237887.34	3814004.11	11.88	7.23
							11237883.93	3814006.11	11.88	7.27
							11237884.56	3814007.11	11.88	7.25
		x		0		9.75	11237824.66	3813980.79	17.23	7.48
							11237875.27	3813944.25	17.23	7.41
							11237897.74	3813973.02	17.23	7.33
							11237883.25	3813983.52	17.23	7.31
							11237871.49	3813968.61	17.23	7.42
							11237835.16	3813995.91	17.23	7.33

### Geometrie Höhenlinien

Name	M.	ID	OnlyPts	Height		Coordinates			
				Begin (m)	End (m)	x (m)	y (m)	z (m)	
							11237871.28	3814268.78	13.40
							11237882.03	3814269.78	11.90
							11237895.54	3814270.95	11.60
							11237910.79	3814272.20	11.00
							11237946.38	3814275.70	11.00
							11237960.87	3814277.35	10.70
							11238006.05	3814281.45	10.50
							11238074.42	3814287.97	10.10
							11238128.34	3814292.90	9.15
							11238169.52	3814296.90	8.54
							11238187.85	3814298.40	9.15
							11238186.80	3814204.20	7.93
							11237865.11	3814280.70	12.20
							11237919.09	3814284.91	11.00
							11238073.25	3814299.82	11.00
							11238250.89	3814315.71	10.10
							11237902.99	3814212.44	11.60
							11237901.21	3814224.35	11.50
							11237900.28	3814243.40	11.50
							11237902.00	3814246.57	11.50
							11237950.17	3814249.75	11.00
							11237953.34	3814243.13	11.00
							11237958.77	3814244.06	11.00
							11237960.35	3814251.21	10.90
							11237989.86	3814253.46	10.90
							11238007.73	3814255.18	10.70
							11238009.71	3814251.60	10.70
							11238012.09	3814224.48	11.30
							11238004.75	3814221.37	11.30
							11237962.54	3814218.13	11.00
							11237942.76	3814216.34	11.00
							11237905.17	3814212.56	11.60
							11238034.49	3814231.70	10.40
							11238032.99	3814240.04	10.50
							11238032.90	3814255.29	10.40
							11238037.07	3814258.71	10.40
							11238071.50	3814261.46	9.76
							11238099.75	3814264.05	8.84

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11238103.51	3814259.21	8.84
						11238102.92	3814241.21	8.84
						11238097.59	3814236.29	8.84
						11238036.24	3814231.12	10.40
						11238112.56	3814239.62	8.84
						11238108.46	3814246.89	8.84
						11238105.41	3814257.35	8.84
						11238103.30	3814270.71	8.84
						11238114.15	3814274.15	8.93
						11238162.18	3814277.99	8.54
						11238169.19	3814272.83	8.54
						11238172.37	3814250.73	8.84
						11238172.50	3814218.98	8.84
						11238164.30	3814210.64	8.54
						11238121.56	3814208.39	8.84
						11238114.94	3814217.25	8.84
						11238112.16	3814239.35	8.84
						11238112.72	3814207.99	8.84
						11238091.71	3814201.80	8.84
						11238077.95	3814210.62	9.15
						11238074.07	3814220.91	8.99
						11238085.10	3814231.21	8.84
						11238099.06	3814234.46	8.84
						11238035.65	3814154.34	9.15
						11238032.74	3814175.25	9.45
						11238059.21	3814185.97	9.76
						11238107.77	3814188.61	9.15
						11238122.06	3814164.66	9.15
						11238120.07	3814155.53	9.15
						11237903.76	3814209.71	11.70
						11237902.44	3814191.06	11.50
						11237901.25	3814153.21	11.50
						11237899.92	3814136.14	11.60
						11237930.89	3814133.89	11.50
						11237935.25	3814206.67	11.50
						11237933.93	3814132.97	11.50
						11237963.18	3814143.95	11.00
						11237993.61	3814171.60	9.45
						11238023.78	3814173.72	9.76
						11237898.20	3814133.45	11.00
						11237897.36	3814121.11	8.54
						11237893.03	3814100.94	7.62
						11237880.03	3814067.93	7.62
						11237861.35	3814016.74	7.62
						11237844.60	3814008.66	7.32
						11237824.93	3813996.32	7.32
						11237916.25	3814099.08	7.93
						11237901.43	3814082.14	7.62
						11237900.90	3814072.35	7.74
						11237912.78	3814050.56	7.32
						11237892.08	3814029.08	7.32
						11237877.91	3814010.91	7.32
						11237871.24	3813998.24	7.26
						11237854.43	3813994.25	7.32
						11237831.96	3813999.08	7.30
						11237821.24	3813984.16	7.32
						11237825.75	3813978.00	7.56
						11237860.61	3813946.91	7.56
						11237881.20	3813937.25	7.32
						11237900.52	3813973.37	7.32
						11237925.85	3813991.70	6.71
						11237971.28	3814054.17	7.62
						11237957.78	3814072.04	7.62



Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11237921.26	3814097.71	7.62
						11237984.06	3814104.64	11.30
						11238018.30	3814121.86	10.40
						11238056.65	3814140.87	8.84
						11238109.00	3814156.21	8.84

### Geometrie Bruchkanten

Name	M.	ID	Coordinates	
			x (m)	y (m)

# Bericht (Cumltv plus Prj 3rd Floor Rcvrs\_051514.cna)

Gruppentabelle Tag und Nacht

Name	Expression	R 7-1C		R 7-2C		R 7-3C		R 7-4C		R 7-5C		R 7-6C		R 7-7C		R 7-8C		R 7-9C	
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night

Source		R 7-1C		R 7-2C		R 7-3C		R 7-4C		R 7-5C		R 7-6C		R 7-7C		R 7-8C			
Name	M. ID	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night		
Los Carneros Road																		36.5	
US 101 SB Onramp												46.9		44.3				28.7	
US 101 SB Offramp																			
US 101 SB														23.3				22.8	
US 101 SB		64.1	-83.4	63.9	-83.6	62.6	-85.2	62.4	-85.3	59.5		57.3		53.0				37.5	
US 101 NB		52.0		51.2		55.6		55.3		56.8		53.3		51.1				35.7	
US 101 NB														21.1				21.8	
UPRR		49.8	49.8	50.2	50.2	50.7	50.7	51.2	51.2	51.3	51.3	39.4	39.4	40.8	40.8	39.8	39.8	39.8	39.8
UPRR		71.0	71.0	71.2	71.2	71.6	71.6	71.6	71.6	68.4	68.4	62.2	62.2	56.8	56.8	49.1	49.1	49.1	49.1

## Schallquellen

### Punktquellen

Name	M.	ID	Result. PWL			Lw / Li		Correction			Sound Reduction		Attenuation	Operating Time			K0
			Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)	Special (min)	

### Linienquellen

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Flächenquellen

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Flächenquellen vertikal

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li		Correction			Sound Reduction		Attenuation	Oper	
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)

### Schienen

Name	M.	ID	Lm,E		Train Class	Add.Level				Vmax
			Day (dBA)	Night (dBA)		Dfb (dB)	Dbr (dB)	Dbü (dB)	Dra (dB)	
UPRR			85.0	85.0						
UPRR			78.0	78.0						

### Zugklassen

Name	M. ID	Lm,E		Train Class										Add.Level				Vmax	
		Day	Night	Type	p	Number of Trains			v	l	Dfz	Dae	Lm,E,i (dB)		Dfb	Dbr	Dbü		Dra
		(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night	(dB)	(dB)	(dB)		(dB)
UPRR		85.0	85.0																
UPRR		78.0	78.0																

Name	Lm,E		Train Class										
	Day	Night	Type	p	Number of Trains			v	l	Dfz	Dae	Lm,E,i (dB)	
	(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night

### Parkplätze

Name	M. ID	Type	Lwa			Event Data						Penalty Type		Penalty Surface		A
			Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ			Kpa	Type	Kstro	Surface	
			(dBA)	(dBA)	(dBA)				Day	Special	Night	(dB)		(dB)		

### Strassen

Name	M. ID	Lme			Count Data		exact Count Data						Speed Limit		SCS Dist.	Ds (c)
		Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto	Truck		
		(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(km/h)	(km/h)		
Los Carneros Road		70.2	0.0	0.0			3333.0	0.0	0.0	5.0	0.0	0.0	72		RQ 20	
US 101 SB Onramp		66.2	0.0	0.0			1339.0	0.0	0.0	5.0	0.0	0.0	72		RQ 12	
US 101 SB Offramp		61.8	0.0	0.0			190.0	0.0	0.0	5.0	0.0	0.0	100		RQ 12	
US 101 SB		77.0	0.0	0.0			4925.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 SB		77.0	0.0	0.0			4925.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 NB		76.2	0.0	0.0			4099.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	
US 101 NB		76.2	0.0	0.0			4099.0	0.0	0.0	9.0	0.0	0.0	105	105	RQ 16	

### Ampeln

Name	M. ID	Active			Height	Coordinates		
		Day	Evening	Night	Begin	X	Y	Z
					(m)	(m)	(m)	(m)

### Immissionspunkte

Name	M. ID	Level Lr		Limit. Value		Land Use		Height	Coordinates			
		Day	Night	Day	Night	Type	Auto		Noise Type	X	Y	Z
		(dBA)	(dBA)	(dBA)	(dBA)					(m)	(m)	(m)
R 7-1C		71.8	71.0	0.0	0.0	x	Total	7.60	r11238158.88	3814274.45	16.17	
R 7-2C		72.0	71.2	0.0	0.0	x	Total	7.60	r11238145.19	3814273.08	16.27	
R 7-3C		72.2	71.6	0.0	0.0	x	Total	7.60	r11238128.68	3814272.48	16.40	
R 7-4C		72.2	71.6	0.0	0.0	x	Total	7.60	r11238111.97	3814270.98	16.51	
R 7-5C		69.2	68.4	0.0	0.0	x	Total	7.60	r11238105.86	3814263.69	16.45	
R 7-6C		63.9	62.3	0.0	0.0	x	Total	7.60	r11238107.53	3814258.72	16.46	
R 7-7C		59.3	56.9	0.0	0.0	x	Total	7.60	r11238109.36	3814250.46	16.45	
R 7-8C		50.2	49.6	0.0	0.0	x	Total	7.60	r11238117.34	3814245.69	16.42	
R 7-9C		50.1	49.3	0.0	0.0	x	Total	7.60	r11238129.68	3814247.19	16.39	
R 7-10C		55.3	54.7	0.0	0.0	x	Total	7.60	r11238139.98	3814238.42	16.39	
R 7-11C		55.2	54.6	0.0	0.0	x	Total	7.60	r11238132.71	3814238.00	16.40	
R 7-12C		55.0	54.4	0.0	0.0	x	Total	7.60	r11238122.29	3814237.03	16.41	
R 7-13C		58.1	56.1	0.0	0.0	x	Total	7.60	r11238115.68	3814231.37	16.43	
R 7-14C		57.5	55.7	0.0	0.0	x	Total	7.60	r11238117.37	3814222.06	16.42	
R 7-15C		52.0	51.3	0.0	0.0	x	Total	7.60	r11238124.18	3814211.84	16.40	
R 7-16C		63.3	60.0	0.0	0.0	x	Total	7.60	r11238167.78	3814224.98	16.27	
R 7-17C		61.6	58.5	0.0	0.0	x	Total	7.60	r11238165.37	3814240.73	16.37	
R 7-18C		65.7	63.0	0.0	0.0	x	Total	7.60	r11238167.76	3814253.05	16.41	
R 7-19C		67.4	65.7	0.0	0.0	x	Total	7.60	r11238163.26	3814267.75	16.25	
R 8-1C		70.8	70.0	0.0	0.0	x	Total	7.60	r11238095.94	3814262.98	16.56	
R 8-2C		71.0	70.2	0.0	0.0	x	Total	7.60	r11238091.05	3814262.56	16.72	

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)	(m)
R 8-3C			70.8	70.1	0.0	0.0		x	Total	7.60	r	11238082.91	3814260.93	16.98
R 8-4C			71.0	70.2	0.0	0.0		x	Total	7.60	r	11238077.03	3814261.14	17.18
R 8-5C			70.9	70.0	0.0	0.0		x	Total	7.60	r	11238070.78	3814259.57	17.36
R 8-6C			70.5	69.6	0.0	0.0		x	Total	7.60	r	11238063.82	3814257.53	17.51
R 8-7C			71.0	70.2	0.0	0.0		x	Total	7.60	r	11238058.76	3814259.29	17.60
R 8-8C			71.1	70.3	0.0	0.0		x	Total	7.60	r	11238051.34	3814258.62	17.74
R 8-9C			71.0	70.3	0.0	0.0		x	Total	7.60	r	11238044.92	3814258.04	17.86
R 8-10C			71.1	70.3	0.0	0.0		x	Total	7.60	r	11238038.91	3814257.62	17.97
R 8-11C			69.2	68.3	0.0	0.0		x	Total	7.60	r	11238035.70	3814252.75	18.03
R 8-12C			60.2	58.7	0.0	0.0		x	Total	7.60	r	11238036.20	3814245.83	18.03
R 8-13C			65.5	64.1	0.0	0.0		x	Total	7.60	r	11238034.70	3814242.25	18.07
R 8-14C			65.4	63.7	0.0	0.0		x	Total	7.60	r	11238034.12	3814238.16	18.07
R 8-15C			53.5	52.7	0.0	0.0		x	Total	7.60	r	11238037.20	3814235.58	18.00
R 8-16C			49.9	48.5	0.0	0.0		x	Total	7.60	r	11238041.79	3814233.08	17.87
R 8-17C			49.4	48.3	0.0	0.0		x	Total	7.60	r	11238050.79	3814234.66	17.65
R 8-18C			48.3	47.0	0.0	0.0		x	Total	7.60	r	11238073.05	3814235.66	17.08
R 8-19C			48.8	47.0	0.0	0.0		x	Total	7.60	r	11238092.32	3814237.58	16.59
R 8-20C			49.3	47.2	0.0	0.0		x	Total	7.60	r	11238097.48	3814238.25	16.45
R 8-21C			51.5	50.6	0.0	0.0		x	Total	7.60	r	11238099.57	3814242.92	16.44
R 8-22C			51.6	50.7	0.0	0.0		x	Total	7.60	r	11238099.32	3814249.25	16.44
R 8-23C			50.7	50.0	0.0	0.0		x	Total	7.60	r	11238100.15	3814252.50	16.44
R 8-24C			66.2	64.7	0.0	0.0		x	Total	7.60	r	11238100.82	3814257.51	16.44
R2-1C			62.7	61.2	0.0	0.0		x	Total	7.60	r	11237916.87	3814093.05	15.24
R2-2C			62.6	61.3	0.0	0.0		x	Total	7.60	r	11237911.83	3814086.96	15.26
R2-3C			62.8	61.4	0.0	0.0		x	Total	7.60	r	11237907.84	3814085.07	15.25
R2-4C			62.9	61.5	0.0	0.0		x	Total	7.60	r	11237903.85	3814080.45	15.27
R2-5C			61.2	59.5	0.0	0.0		x	Total	7.60	r	11237905.11	3814076.46	15.30
R2-6C			55.2	51.4	0.0	0.0		x	Total	7.60	r	11237911.41	3814071.62	15.15
R2-7C			55.4	52.0	0.0	0.0		x	Total	7.60	r	11237917.71	3814065.53	15.02
R2-8C			56.9	54.5	0.0	0.0		x	Total	7.60	r	11237924.85	3814058.18	15.01
R2-9C			55.4	52.4	0.0	0.0		x	Total	7.60	r	11237931.15	3814054.19	15.02
R2-10C			53.0	48.7	0.0	0.0		x	Total	7.60	r	11237936.41	3814052.93	15.04
R2-11C			58.2	56.7	0.0	0.0		x	Total	7.60	r	11237933.89	3814046.84	14.97
R2-12C			59.9	58.6	0.0	0.0		x	Total	7.60	r	11237929.05	3814041.59	14.89
R2-13C			60.7	59.5	0.0	0.0		x	Total	7.60	r	11237922.96	3814033.40	14.77
R2-14C			61.0	59.8	0.0	0.0		x	Total	7.60	r	11237915.40	3814023.32	14.67
R2-15C			61.1	59.8	0.0	0.0		x	Total	7.60	r	11237910.36	3814016.60	14.66
R2-16C			61.1	59.8	0.0	0.0		x	Total	7.60	r	11237904.69	3814008.41	14.64
R2-17C			57.5	54.5	0.0	0.0		x	Total	7.60	r	11237905.53	3814001.90	14.58
R2-18C			56.0	51.9	0.0	0.0		x	Total	7.60	r	11237908.89	3813998.96	14.53
R2-19C			55.0	50.7	0.0	0.0		x	Total	7.60	r	11237914.35	3813994.34	14.48
R2-20C			54.2	49.0	0.0	0.0		x	Total	7.60	r	11237917.92	3813991.82	14.44
R2-21C			46.7	46.4	0.0	0.0		x	Total	7.60	r	11237925.48	3813995.60	14.35
R2-22C			47.0	46.7	0.0	0.0		x	Total	7.60	r	11237935.78	3814009.04	14.55
R2-23C			47.4	47.2	0.0	0.0		x	Total	7.60	r	11237947.96	3814024.79	14.78
R2-24C			48.1	47.8	0.0	0.0		x	Total	7.60	r	11237960.56	3814040.96	15.02
R2-25C			57.6	56.3	0.0	0.0		x	Total	7.60	r	11237962.45	3814056.29	15.18
R2-26C			60.1	58.8	0.0	0.0		x	Total	7.60	r	11237951.11	3814068.68	15.17
R2-27C			59.8	58.5	0.0	0.0		x	Total	7.60	r	11237956.15	3814064.69	15.18
R2-28C			59.5	58.5	0.0	0.0		x	Total	7.60	r	11237941.24	3814076.04	15.18
R2-29C			60.6	59.5	0.0	0.0		x	Total	7.60	r	11237935.57	3814081.92	15.19
R2-30C			61.9	60.6	0.0	0.0		x	Total	7.60	r	11237927.16	3814088.22	15.19
R6-1C			57.6	56.6	0.0	0.0		x	Total	7.60	r	11238102.76	3814182.07	16.76
R6-2C			57.6	56.6	0.0	0.0		x	Total	7.60	r	11238087.19	3814180.63	16.95
R6-3C			59.7	58.2	0.0	0.0		x	Total	7.60	r	11238054.90	3814177.76	17.20
R6-4C			60.0	58.4	0.0	0.0		x	Total	7.60	r	11238037.24	3814169.05	16.98
R6-5C			59.4	57.9	0.0	0.0		x	Total	7.60	r	11238038.29	3814157.89	16.82
R6-6C			48.8	46.3	0.0	0.0		x	Total	7.60	r	11238050.67	3814151.80	16.67
R1-1C			64.7	61.7	0.0	0.0		x	Total	7.60	r	11237833.27	3813996.54	14.93
R1-2C			64.5	61.4	0.0	0.0		x	Total	7.60	r	11237824.45	3813983.73	15.01
R1-3C			60.3	48.8	0.0	0.0		x	Total	7.60	r	11237833.27	3813973.23	15.15
R1-4C			56.6	48.8	0.0	0.0		x	Total	7.60	r	11237867.71	3813948.03	15.10
R1-5C			47.2	46.4	0.0	0.0		x	Total	7.60	r	11237883.04	3813953.70	14.98

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	X	Y	Z	
			(dBA)	(dBA)	(dBA)	(dBA)			(m)					(m)
R1-6C			60.7	59.6	0.0	0.0		x	Total	7.60	r11237889.97	3813979.95	14.91	
R1-7C			61.3	59.9	0.0	0.0		x	Total	7.60	r11237880.10	3813982.05	14.92	
R1-8C			61.3	59.9	0.0	0.0		x	Total	7.60	r11237872.75	3813973.02	14.99	
R1-9C			61.9	60.4	0.0	0.0		x	Total	7.60	r11237860.99	3813977.22	15.00	
R1-10C			63.8	61.3	0.0	0.0		x	Total	7.60	r11237843.77	3813990.45	14.98	

### Gebietsausweisungen

Name	M.	ID	Type	Persons
				(1/km <sup>2</sup> )

### Hindernisse

#### Schirme

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height	
			left	right		horz.	vert.	Begin	End
					(m)	(m)	(m)	(m)	

#### Häuser

Name	M.	ID	RB	Residents	Absorption	Height	
						Begin	
						(m)	
			x	0		3.65	r
			x	0		3.65	r
			x	0		6.70	r
			x	0		6.70	r
			x	0		9.75	r
			x	0		9.75	r
			x	0		4.60	r
			x	0		6.70	r
			x	0		9.75	r
			x	0		9.75	r
			x	0		4.60	r
			x	0		9.75	r

#### Bewuchs

Name	M.	ID	Height
			(m)

#### Bebauung

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

### Geometriedaten

#### Geometrie Linienquellen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

#### Geometrie Flächenquellen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Parkplätze

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

### Geometrie Straßen

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin	End	x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		
Los Carneros Road			11237697.29	3813908.86	7.62	7.60		
			11237759.07	3813961.83	10.67	10.70		
			11237782.99	3813989.66	10.67	11.00		
			11237808.40	3814029.18	12.50	12.50		
			11237829.81	3814079.44	12.80	14.00		
			11237845.52	3814131.11	14.33	16.00		
			11237849.30	3814230.44	14.94	18.50		
			11237851.61	3814289.45	16.76	21.30		
			11237854.07	3814329.87	18.29	21.50		
			11237857.43	3814385.23	18.29	18.29		
US 101 SB Onramp			11237861.66	3814452.97	16.46	16.46		
			11237862.91	3814329.11	14.33	21.50		
			11237917.30	3814334.68	14.63	19.00		
			11237998.36	3814343.08	14.63	15.80		
			11238188.34	3814363.72	10.36	12.20		
US 101 SB Offramp			11238396.35	3814383.05	9.75	10.40		
			11237577.38	3814297.86	12.19	12.19		
			11237682.81	3814309.20	14.33	14.33		
			11237760.93	3814317.60	14.33	18.00		
US 101 SB			11237844.93	3814327.68	14.00	21.50		
			11237580.17	3814319.88	12.80	12.80		
			11237676.48	3814338.40	12.50	12.50		
			11237752.15	3814353.33	12.19	12.19		
			11237789.19	3814359.46	12.19	12.19		
US 101 SB			11237847.26	3814365.39	12.50	12.50		
			11237865.59	3814369.12	12.50	12.50		
			11237906.40	3814372.39	11.28	11.28		
			11237997.12	3814376.59	10.97	10.97		
			11238183.92	3814379.77	10.97	10.97		
US 101 NB			11238395.93	3814392.44	10.36	10.36		
			11238394.07	3814413.64	9.14	9.14		
			11238181.55	3814403.56	9.75	9.75		
			11237995.91	3814396.84	11.28	11.28		
			11237901.83	3814389.28	10.67	10.67		
US 101 NB			11237866.49	3814386.68	12.50	12.50		
			11237847.87	3814383.91	12.50	12.50		
			11237786.75	3814375.84	12.19	12.19		
			11237748.95	3814369.96	12.19	12.19		
			11237674.19	3814356.52	13.11	13.11		
		11237577.59	3814337.20	12.50	12.50			

### Geometrie Schienen

Name	Height		Coordinates					
	Begin	End	x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		
UPRR	12.50	a	12.50	a	11237570.03	3814262.43	12.50	1.25
					11237838.85	3814285.11	12.50	11.18
UPRR	12.50	a	8.53	a	11237861.86	3814287.47	12.50	11.58
					11238395.28	3814332.85	8.53	0.89

### Geometrie Schirme

Name	M.	ID	Absorption		Z-Ext. (m)	Cantilever		Height		Coordinates			
			left	right		horz. (m)	vert. (m)	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)
										11237881.18	3814251.51	15.51	13.10
										11237882.02	3814269.67	14.31	11.90
										11237895.41	3814270.84	14.01	11.60
										11237911.06	3814272.16	13.41	11.00
										11237945.61	3814275.47	13.41	11.00
										11237961.46	3814277.18	13.11	10.70
										11238006.41	3814281.33	12.91	10.50
										11238074.37	3814287.71	12.51	10.10
										11238128.78	3814292.54	11.56	9.15
										11238169.64	3814296.43	10.95	8.54
										11238187.40	3814297.69	11.56	9.15
										11237881.05	3814251.87	14.93	13.10
										11237880.84	3814250.05	14.93	13.10
										11237880.31	3814214.13	14.93	13.10
										11237879.47	3814200.69	15.23	13.40
										11237878.61	3814185.47	15.53	13.70
										11237876.44	3814158.13	14.63	12.80
										11237872.29	3814129.17	14.23	13.40
										11237862.61	3814092.28	16.70	14.90
										11237859.87	3814081.36	15.83	14.00
										11237854.83	3814065.92	15.53	13.70
										11237846.22	3814043.24	14.13	12.30
										11237832.15	3814014.88	13.73	11.90
										11237818.29	3813991.15	12.63	10.80
										11237815.50	3813986.47	12.63	10.80
										11237811.99	3813980.80	12.63	10.80

### Geometrie Häuser

Name	M.	ID	RB	Residents	Absorption	Height (m)	Coordinates				
							Begin (m)	x (m)	y (m)	z (m)	Ground (m)
						3.65	r	11238188.92	3814297.40	12.80	9.15
								11238194.21	3814297.14	12.80	9.21
								11238193.42	3814235.75	12.80	8.41
								11238220.94	3814234.69	12.80	8.50
								11238220.67	3814227.01	12.80	8.34
								11238187.86	3814229.66	12.80	8.27
								11238189.18	3814297.40	12.80	9.15
			x	0		3.65	r	11238198.18	3814176.74	11.11	7.46
								11238200.30	3814224.10	11.11	8.31
								11238237.34	3814223.31	11.11	8.24
								11238236.55	3814196.05	11.11	7.69
								11238223.32	3814196.32	11.11	7.71
								11238222.79	3814175.68	11.11	7.29
			x	0		6.70	r	11237903.99	3814215.91	18.27	11.57
								11237901.32	3814243.25	18.27	11.50
								11237905.31	3814243.57	18.27	11.46
								11237905.26	3814244.72	18.27	11.46
								11237909.41	3814244.98	18.27	11.42
								11237909.83	3814239.79	18.27	11.40
								11237911.82	3814239.94	18.27	11.38
								11237911.77	3814242.25	18.27	11.39
								11237923.27	3814243.15	18.27	11.27
								11237923.43	3814240.99	18.27	11.26
								11237927.52	3814241.41	18.27	11.22
								11237927.31	3814243.51	18.27	11.23
								11237939.07	3814244.68	18.27	11.11
								11237939.22	3814242.53	18.27	11.10
								11237941.17	3814242.68	18.27	11.08
								11237940.69	3814247.83	18.27	11.10
								11237944.63	3814248.15	18.27	11.05
								11237944.74	3814246.83	18.27	11.05

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237948.73	3814247.15	18.27	11.01
							11237951.25	3814219.58	18.27	11.00
							11237947.26	3814219.27	18.27	11.00
							11237947.34	3814218.14	18.27	11.00
							11237943.38	3814217.89	18.27	11.00
							11237942.88	3814222.85	18.27	11.01
							11237941.01	3814222.81	18.27	11.03
							11237941.13	3814220.39	18.27	11.03
							11237913.61	3814218.28	18.27	11.40
							11237913.48	3814220.39	18.27	11.37
							11237911.36	3814220.19	18.27	11.41
							11237911.89	3814215.23	18.27	11.47
							11237907.92	3814214.84	18.27	11.53
							11237907.79	3814215.89	18.27	11.52
							11237903.82	3814215.50	18.27	11.57
			x	0		6.70	r 11237960.36	3814248.60	17.64	10.94
							11237964.18	3814248.92	17.64	10.94
							11237964.17	3814249.98	17.64	10.92
							11237968.27	3814250.40	17.64	10.92
							11237968.69	3814245.25	17.64	10.97
							11237970.58	3814245.46	17.64	10.96
							11237970.37	3814247.66	17.64	10.96
							11237982.13	3814248.71	17.64	10.93
							11237982.45	3814246.30	17.64	10.93
							11237986.44	3814246.72	17.64	10.93
							11237986.23	3814249.03	17.64	10.91
							11237997.99	3814249.98	17.64	10.87
							11237998.10	3814247.77	17.64	10.91
							11237999.99	3814247.98	17.64	10.88
							11237999.57	3814253.13	17.64	10.80
							11238004.30	3814253.65	17.64	10.75
							11238004.33	3814252.58	17.64	10.75
							11238007.69	3814252.90	17.64	10.71
							11238010.07	3814225.08	17.64	11.27
							11238006.19	3814224.87	17.64	11.24
							11238006.29	3814223.72	17.64	11.26
							11238002.14	3814223.44	17.64	11.26
							11238001.77	3814228.23	17.64	11.21
							11237999.88	3814228.13	17.64	11.20
							11238000.02	3814226.06	17.64	11.22
							11237972.62	3814223.61	17.64	11.03
							11237972.36	3814225.92	17.64	11.01
							11237970.47	3814225.82	17.64	10.99
							11237971.00	3814220.46	17.64	11.05
							11237967.11	3814219.93	17.64	11.02
							11237966.80	3814221.40	17.64	11.00
							11237962.80	3814220.88	17.64	11.00
			x	0		9.75	r 11238034.68	3814235.95	20.20	10.45
							11238034.15	3814241.31	20.20	10.48
							11238035.41	3814241.31	20.20	10.45
							11238034.89	3814244.67	20.20	10.46
							11238036.99	3814244.88	20.20	10.42
							11238036.78	3814247.40	20.20	10.42
							11238034.26	3814247.29	20.20	10.46
							11238034.26	3814248.66	20.20	10.45
							11238036.57	3814248.97	20.20	10.42
							11238036.04	3814253.91	20.20	10.43
							11238037.51	3814254.12	20.20	10.40
							11238037.30	3814256.75	20.20	10.40
							11238046.44	3814257.59	20.20	10.23
							11238046.65	3814255.28	20.20	10.23
							11238048.96	3814255.49	20.20	10.18
							11238048.86	3814257.80	20.20	10.18



Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238060.52	3814258.85	20.20	9.97
							11238060.83	3814256.64	20.20	9.96
							11238065.56	3814257.06	20.20	9.87
							11238065.45	3814257.80	20.20	9.88
							11238069.44	3814258.11	20.20	9.78
							11238069.23	3814258.85	20.20	9.79
							11238072.65	3814259.11	20.20	9.71
							11238072.49	3814260.21	20.20	9.72
							11238081.66	3814261.05	20.20	9.43
							11238081.66	3814260.05	20.20	9.42
							11238084.75	3814260.46	20.20	9.32
							11238085.16	3814256.30	20.20	9.30
							11238090.42	3814257.05	20.20	9.13
							11238089.92	3814261.88	20.20	9.16
							11238096.58	3814262.38	20.20	8.94
							11238096.75	3814259.05	20.20	8.93
							11238100.34	3814259.38	20.20	8.84
							11238101.09	3814253.71	20.20	8.84
							11238099.67	3814253.54	20.20	8.84
							11238099.92	3814250.54	20.20	8.84
							11238098.84	3814250.54	20.20	8.84
							11238099.00	3814247.71	20.20	8.84
							11238101.42	3814247.96	20.20	8.84
							11238101.25	3814246.21	20.20	8.84
							11238098.84	3814246.04	20.20	8.84
							11238099.25	3814241.12	20.20	8.84
							11238098.42	3814241.12	20.20	8.84
							11238098.50	3814238.70	20.20	8.84
							11238090.33	3814237.95	20.20	9.05
							11238090.33	3814238.70	20.20	9.05
							11238087.16	3814238.54	20.20	9.13
							11238087.33	3814237.37	20.20	9.12
							11238078.16	3814236.45	20.20	9.35
							11238077.99	3814237.37	20.20	9.36
							11238074.66	3814237.12	20.20	9.45
							11238074.74	3814236.04	20.20	9.44
							11238069.91	3814235.79	20.20	9.56
							11238069.82	3814236.79	20.20	9.57
							11238063.74	3814236.12	20.20	9.73
							11238063.74	3814235.16	20.20	9.72
							11238054.52	3814234.22	20.20	9.95
							11238054.48	3814235.37	20.20	9.96
							11238045.56	3814234.62	20.20	10.19
							11238045.56	3814233.62	20.20	10.18
							11238038.48	3814233.12	20.20	10.36
							11238038.14	3814236.12	20.20	10.38
			x	0		9.75	11238106.23	3814266.67	18.61	8.86
							11238109.59	3814266.88	18.61	8.88
							11238109.38	3814269.82	18.61	8.89
							11238116.31	3814270.66	18.61	8.90
							11238117.26	3814265.51	18.61	8.88
							11238122.10	3814265.85	18.61	8.84
							11238121.84	3814270.15	18.61	8.85
							11238124.75	3814270.28	18.61	8.83
							11238124.82	3814271.34	18.61	8.83
							11238134.15	3814272.07	18.61	8.76
							11238134.21	3814270.94	18.61	8.75
							11238137.45	3814271.34	18.61	8.73
							11238137.19	3814272.40	18.61	8.73
							11238141.94	3814272.82	18.61	8.69
							11238141.94	3814271.82	18.61	8.69
							11238148.11	3814272.57	18.61	8.64
							11238148.28	3814273.48	18.61	8.64

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
						11238152.86	3814273.98	18.61	8.61	
						11238152.95	3814273.07	18.61	8.60	
						11238160.89	3814273.86	18.61	8.58	
						11238161.15	3814270.95	18.61	8.61	
						11238162.54	3814271.08	18.61	8.61	
						11238162.81	3814266.25	18.61	8.66	
						11238165.25	3814266.45	18.61	8.66	
						11238165.32	3814264.80	18.61	8.68	
						11238162.87	3814264.66	18.61	8.68	
						11238163.14	3814262.15	18.61	8.70	
						11238166.25	3814262.55	18.61	8.71	
						11238166.31	3814260.89	18.61	8.72	
						11238164.13	3814260.69	18.61	8.72	
						11238164.33	3814258.31	18.61	8.75	
						11238166.64	3814258.51	18.61	8.75	
						11238167.64	3814247.33	18.61	8.82	
						11238167.64	3814246.00	18.61	8.81	
						11238163.72	3814245.67	18.61	8.81	
						11238163.89	3814241.75	18.61	8.78	
						11238164.78	3814241.78	18.61	8.78	
						11238165.04	3814238.54	18.61	8.76	
						11238166.23	3814238.71	18.61	8.76	
						11238166.30	3814237.48	18.61	8.75	
						11238163.76	3814237.28	18.61	8.75	
						11238164.02	3814234.21	18.61	8.72	
						11238166.47	3814234.47	18.61	8.72	
						11238166.66	3814232.95	18.61	8.71	
						11238163.36	3814232.75	18.61	8.71	
						11238163.42	3814229.77	18.61	8.69	
						11238164.61	3814229.77	18.61	8.69	
						11238164.75	3814227.19	18.61	8.67	
						11238167.00	3814227.39	18.61	8.67	
						11238167.59	3814220.78	18.61	8.66	
						11238163.95	3814220.38	18.61	8.62	
						11238164.27	3814217.23	18.61	8.59	
						11238156.28	3814216.81	18.61	8.60	
						11238156.18	3814215.44	18.61	8.59	
						11238151.56	3814214.92	18.61	8.62	
						11238151.45	3814216.18	18.61	8.62	
						11238145.15	3814215.65	18.61	8.65	
						11238145.25	3814214.60	18.61	8.65	
						11238136.01	3814213.87	18.61	8.71	
						11238136.01	3814214.60	18.61	8.71	
						11238132.86	3814214.50	18.61	8.73	
						11238132.54	3814218.38	18.61	8.73	
						11238126.87	3814218.07	18.61	8.77	
						11238127.40	3814213.03	18.61	8.78	
						11238120.78	3814212.50	18.61	8.82	
						11238120.58	3814215.48	18.61	8.81	
						11238117.10	3814215.13	18.61	8.84	
						11238116.49	3814220.84	18.61	8.83	
						11238117.73	3814220.90	18.61	8.82	
						11238117.52	3814223.95	18.61	8.82	
						11238118.78	3814224.05	18.61	8.81	
						11238118.50	3814226.50	18.61	8.81	
						11238116.47	3814226.37	18.61	8.82	
						11238116.05	3814232.93	18.61	8.82	
						11238119.15	3814233.30	18.61	8.80	
						11238118.89	3814236.34	18.61	8.81	
						11238126.87	3814236.97	18.61	8.80	
						11238127.06	3814235.74	18.61	8.79	
						11238130.34	3814236.03	18.61	8.79	
						11238130.23	3814237.29	18.61	8.80	

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238135.07	3814237.81	18.61	8.79
							11238135.16	3814236.77	18.61	8.79
							11238137.87	3814236.95	18.61	8.78
							11238137.94	3814238.01	18.61	8.79
							11238142.84	3814238.34	18.61	8.79
							11238142.93	3814236.78	18.61	8.77
							11238145.70	3814237.04	18.61	8.77
							11238145.57	3814238.45	18.61	8.78
							11238151.09	3814238.63	18.61	8.78
							11238151.37	3814235.03	18.61	8.75
							11238154.39	3814235.19	18.61	8.75
							11238153.66	3814241.91	18.61	8.80
							11238151.03	3814241.70	18.61	8.80
							11238150.79	3814244.75	18.61	8.82
							11238152.42	3814244.85	18.61	8.82
							11238152.29	3814247.48	18.61	8.84
							11238154.60	3814247.79	18.61	8.84
							11238153.93	3814254.00	18.61	8.77
							11238151.03	3814253.68	18.61	8.77
							11238151.24	3814250.00	18.61	8.81
							11238146.30	3814249.58	18.61	8.80
							11238146.24	3814250.82	18.61	8.79
							11238142.93	3814250.81	18.61	8.78
							11238143.05	3814248.84	18.61	8.80
							11238138.53	3814248.42	18.61	8.80
							11238138.53	3814249.37	18.61	8.79
							11238131.60	3814248.74	18.61	8.78
							11238131.49	3814247.79	18.61	8.79
							11238122.57	3814247.06	18.61	8.78
							11238122.57	3814247.79	18.61	8.78
							11238119.62	3814247.69	18.61	8.81
							11238119.83	3814246.43	18.61	8.80
							11238111.96	3814245.80	18.61	8.85
							11238111.75	3814248.53	18.61	8.86
							11238110.17	3814248.63	18.61	8.85
							11238109.75	3814253.57	18.61	8.86
							11238107.44	3814253.47	18.61	8.85
							11238107.23	3814254.94	18.61	8.85
							11238109.65	3814255.15	18.61	8.86
							11238109.44	3814257.67	18.61	8.87
							11238108.17	3814257.77	18.61	8.86
							11238108.17	3814260.61	18.61	8.86
							11238106.70	3814260.61	18.61	8.85
			x	0		4.60 r	11238097.36	3814231.78	13.44	8.84
							11238106.36	3814232.57	13.44	8.84
							11238107.15	3814224.83	13.44	8.84
							11238110.06	3814225.16	13.44	8.84
							11238110.59	3814216.69	13.44	8.84
							11238107.68	3814216.44	13.44	8.84
							11238108.21	3814210.54	13.44	8.84
							11238104.31	3814210.14	13.44	8.84
							11238104.24	3814211.66	13.44	8.84
							11238100.20	3814211.26	13.44	8.84
							11238099.94	3814213.25	13.44	8.84
							11238096.56	3814212.92	13.44	8.84
							11238097.03	3814209.74	13.44	8.84
							11238088.95	3814208.88	13.44	8.87
							11238088.23	3814214.70	13.44	8.86
							11238080.15	3814214.17	13.44	9.07
							11238079.56	3814222.05	13.44	8.98
							11238098.22	3814223.90	13.44	8.84
			x	0		6.70 r	11237905.46	3814205.38	18.34	11.64
							11237914.47	3814205.18	18.34	11.59

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237914.43	3814204.36	18.34	11.58
							11237923.12	3814203.86	18.34	11.53
							11237923.13	3814204.51	18.34	11.54
							11237932.31	3814203.84	18.34	11.50
							11237932.04	3814199.06	18.34	11.50
							11237932.94	3814199.01	18.34	11.50
							11237932.73	3814195.02	18.34	11.50
							11237927.74	3814195.33	18.34	11.50
							11237927.74	3814193.13	18.34	11.50
							11237929.89	3814192.97	18.34	11.50
							11237929.06	3814180.72	18.34	11.50
							11237926.72	3814181.05	18.34	11.50
							11237926.64	3814176.71	18.34	11.50
							11237928.76	3814176.52	18.34	11.50
							11237927.92	3814163.93	18.34	11.50
							11237925.76	3814164.09	18.34	11.50
							11237925.76	3814160.17	18.34	11.50
							11237927.84	3814159.92	18.34	11.50
							11237927.34	3814148.00	18.34	11.50
							11237925.09	3814148.17	18.34	11.50
							11237924.92	3814146.00	18.34	11.50
							11237929.92	3814145.67	18.34	11.50
							11237929.63	3814141.37	18.34	11.50
							11237928.38	3814141.37	18.34	11.50
							11237928.34	3814137.33	18.34	11.50
							11237921.63	3814137.66	18.34	11.51
							11237921.59	3814136.87	18.34	11.52
							11237919.59	3814137.00	18.34	11.52
							11237919.59	3814137.96	18.34	11.52
							11237910.66	3814138.46	18.34	11.55
							11237910.54	3814137.66	18.34	11.55
							11237908.40	3814137.96	18.34	11.56
							11237908.44	3814138.69	18.34	11.55
							11237901.91	3814139.04	18.34	11.58
							11237902.12	3814143.33	18.34	11.55
							11237901.04	3814143.33	18.34	11.56
							11237901.24	3814147.42	18.34	11.53
							11237906.23	3814147.16	18.34	11.52
							11237906.41	3814149.29	18.34	11.50
							11237904.08	3814149.46	18.34	11.51
							11237904.83	3814161.72	18.34	11.50
							11237907.25	3814161.55	18.34	11.50
							11237907.41	3814165.64	18.34	11.50
							11237905.16	3814165.89	18.34	11.50
							11237906.00	3814177.97	18.34	11.50
							11237907.83	3814177.81	18.34	11.50
							11237908.08	3814182.06	18.34	11.50
							11237906.08	3814182.48	18.34	11.50
							11237906.87	3814194.52	18.34	11.52
							11237909.12	3814194.26	18.34	11.50
							11237909.19	3814196.57	18.34	11.53
							11237904.19	3814196.84	18.34	11.55
							11237904.45	3814201.12	18.34	11.60
							11237905.35	3814201.07	18.34	11.60
			x	0		9.75 r	11238039.03	3814154.34	18.89	9.14
							11238038.54	3814160.90	18.89	9.27
							11238040.69	3814161.10	18.89	9.28
							11238040.44	3814163.68	18.89	9.32
							11238039.44	3814163.68	18.89	9.31
							11238039.28	3814166.27	18.89	9.35
							11238037.86	3814166.27	18.89	9.34
							11238037.61	3814172.19	18.89	9.43
							11238040.94	3814172.44	18.89	9.45

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11238040.69	3814175.94	18.89	9.50
							11238047.20	3814176.27	18.89	9.55
							11238047.61	3814171.52	18.89	9.48
							11238052.53	3814171.94	18.89	9.48
							11238052.12	3814176.94	18.89	9.58
							11238057.20	3814177.35	18.89	9.59
							11238057.28	3814176.52	18.89	9.57
							11238063.29	3814176.94	18.89	9.55
							11238063.20	3814178.02	18.89	9.57
							11238067.87	3814178.52	18.89	9.55
							11238068.29	3814176.06	18.89	9.50
							11238073.42	3814176.44	18.89	9.48
							11238073.29	3814177.35	18.89	9.50
							11238077.13	3814177.77	18.89	9.45
							11238077.09	3814178.52	18.89	9.46
							11238080.05	3814178.77	18.89	9.42
							11238079.96	3814179.77	18.89	9.43
							11238089.63	3814180.36	18.89	9.31
							11238089.80	3814179.48	18.89	9.30
							11238092.47	3814179.69	18.89	9.27
							11238092.89	3814176.02	18.89	9.23
							11238098.22	3814176.52	18.89	9.16
							11238097.64	3814181.11	18.89	9.21
							11238104.47	3814181.69	18.89	9.13
							11238104.61	3814178.58	18.89	9.10
							11238108.51	3814178.91	18.89	9.06
							11238108.97	3814173.35	18.89	9.01
							11238107.44	3814173.24	18.89	9.01
							11238108.78	3814158.07	18.89	8.86
							11238042.87	3814151.71	18.89	9.08
							11238042.54	3814154.56	18.89	9.14
		x		0		9.75	11237904.07	3814078.49	17.44	7.69
							11237909.95	3814086.21	17.44	7.65
							11237912.05	3814084.16	17.44	7.65
							11237913.15	3814085.47	17.44	7.65
							11237912.42	3814086.21	17.44	7.67
							11237917.51	3814092.72	17.44	7.64
							11237924.66	3814086.79	17.44	7.57
							11237926.07	3814088.52	17.44	7.59
							11237928.99	3814085.74	17.44	7.58
							11237929.44	3814086.26	17.44	7.59
							11237937.05	3814079.91	17.44	7.58
							11237936.21	3814078.86	17.44	7.57
							11237938.31	3814077.12	17.44	7.57
							11237938.68	3814077.60	17.44	7.58
							11237942.20	3814074.81	17.44	7.57
							11237941.25	3814073.66	17.44	7.56
							11237946.14	3814069.72	17.44	7.56
							11237946.77	3814070.35	17.44	7.57
							11237948.66	3814068.56	17.44	7.56
							11237949.60	3814069.46	17.44	7.57
							11237957.06	3814063.26	17.44	7.58
							11237956.22	3814062.21	17.44	7.58
							11237958.47	3814060.48	17.44	7.58
							11237955.38	3814056.64	17.44	7.55
							11237956.54	3814055.59	17.44	7.55
							11237958.64	3814057.90	17.44	7.57
							11237965.99	3814052.23	17.44	7.57
							11237964.24	3814049.73	17.44	7.54
							11237965.57	3814048.56	17.44	7.53
							11237920.72	3813989.94	17.44	6.81
							11237912.53	3813997.09	17.44	6.88
							11237914.31	3813999.19	17.44	6.88

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x	y	z	Ground
							(m)	(m)	(m)	(m)
							11237913.05	3814000.03	17.44	6.90
							11237911.37	3813997.82	17.44	6.90
							11237903.81	3814004.23	17.44	7.02
							11237905.59	3814006.44	17.44	7.02
							11237904.33	3814007.17	17.44	7.04
							11237907.69	3814011.16	17.44	7.03
							11237909.27	3814009.80	17.44	7.01
							11237910.95	3814012.00	17.44	7.01
							11237910.00	3814012.74	17.44	7.03
							11237911.90	3814014.94	17.44	7.03
							11237910.85	3814015.89	17.44	7.04
							11237917.15	3814023.66	17.44	7.06
							11237918.30	3814022.82	17.44	7.04
							11237921.67	3814027.13	17.44	7.09
							11237920.51	3814028.08	17.44	7.10
							11237926.39	3814036.27	17.44	7.22
							11237927.55	3814035.32	17.44	7.21
							11237930.70	3814039.32	17.44	7.27
							11237929.33	3814040.58	17.44	7.28
							11237932.51	3814044.55	17.44	7.34
							11237933.24	3814044.08	17.44	7.34
							11237935.69	3814047.39	17.44	7.39
							11237937.14	3814045.67	17.44	7.37
							11237938.00	3814046.60	17.44	7.39
							11237938.67	3814046.10	17.44	7.38
							11237941.09	3814049.27	17.44	7.43
							11237942.17	3814049.35	17.44	7.44
							11237941.92	3814050.18	17.44	7.44
							11237942.09	3814051.85	17.44	7.46
							11237939.17	3814053.60	17.44	7.46
							11237938.42	3814053.18	17.44	7.46
							11237935.42	3814055.77	17.44	7.45
							11237934.75	3814055.02	17.44	7.44
							11237934.08	3814055.52	17.44	7.44
							11237932.58	3814053.52	17.44	7.43
							11237929.00	3814056.35	17.44	7.42
							11237929.75	3814057.27	17.44	7.43
							11237927.91	3814058.69	17.44	7.43
							11237927.16	3814057.35	17.44	7.42
							11237919.33	3814063.94	17.44	7.42
							11237920.08	3814064.77	17.44	7.43
							11237916.03	3814068.10	17.44	7.43
							11237915.17	3814067.34	17.44	7.44
							11237914.16	3814068.44	17.44	7.47
							11237915.82	3814070.11	17.44	7.45
							11237914.10	3814071.65	17.44	7.50
							11237913.49	3814070.86	17.44	7.50
							11237909.55	3814074.43	17.44	7.61
							11237909.97	3814074.85	17.44	7.60
							11237907.93	3814076.62	17.44	7.66
							11237906.24	3814074.64	17.44	7.67
							11237905.33	3814075.52	17.44	7.69
							11237906.14	3814076.48	17.44	7.69
			x	0		4.60	r 11237881.78	3814008.79	11.88	7.28
							11237891.07	3814025.96	11.88	7.31
							11237893.17	3814024.65	11.88	7.28
							11237893.49	3814025.39	11.88	7.28
							11237895.54	3814024.13	11.88	7.25
							11237895.22	3814023.60	11.88	7.25
							11237897.43	3814022.39	11.88	7.22
							11237899.74	3814021.08	11.88	7.19
							11237895.70	3814013.52	11.88	7.17
							11237898.69	3814011.78	11.88	7.13

Name	M.	ID	RB	Residents	Absorption	Height Begin (m)	Coordinates			
							x (m)	y (m)	z (m)	Ground (m)
							11237895.49	3814005.48	11.88	7.11
							11237897.74	3814004.22	11.88	7.08
							11237895.07	3813999.55	11.88	7.15
							11237893.17	3814000.70	11.88	7.17
							11237892.65	3813999.81	11.88	7.18
							11237891.39	3814000.91	11.88	7.19
							11237890.50	3813999.28	11.88	7.23
							11237887.71	3814001.23	11.88	7.25
							11237888.34	3814002.59	11.88	7.23
							11237886.92	3814003.38	11.88	7.24
							11237887.34	3814004.11	11.88	7.23
							11237883.93	3814006.11	11.88	7.27
							11237884.56	3814007.11	11.88	7.25
		x		0		9.75	11237824.66	3813980.79	17.23	7.48
							11237875.27	3813944.25	17.23	7.41
							11237897.74	3813973.02	17.23	7.33
							11237883.25	3813983.52	17.23	7.31
							11237871.49	3813968.61	17.23	7.42
							11237835.16	3813995.91	17.23	7.33

### Geometrie Höhenlinien

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11237871.28	3814268.78	13.40
						11237882.03	3814269.78	11.90
						11237895.54	3814270.95	11.60
						11237910.79	3814272.20	11.00
						11237946.38	3814275.70	11.00
						11237960.87	3814277.35	10.70
						11238006.05	3814281.45	10.50
						11238074.42	3814287.97	10.10
						11238128.34	3814292.90	9.15
						11238169.52	3814296.90	8.54
						11238187.85	3814298.40	9.15
						11238186.80	3814204.20	7.93
						11237865.11	3814280.70	12.20
						11237919.09	3814284.91	11.00
						11238073.25	3814299.82	11.00
						11238250.89	3814315.71	10.10
						11237902.99	3814212.44	11.60
						11237901.21	3814224.35	11.50
						11237900.28	3814243.40	11.50
						11237902.00	3814246.57	11.50
						11237950.17	3814249.75	11.00
						11237953.34	3814243.13	11.00
						11237958.77	3814244.06	11.00
						11237960.35	3814251.21	10.90
						11237989.86	3814253.46	10.90
						11238007.73	3814255.18	10.70
						11238009.71	3814251.60	10.70
						11238012.09	3814224.48	11.30
						11238004.75	3814221.37	11.30
						11237962.54	3814218.13	11.00
						11237942.76	3814216.34	11.00
						11237905.17	3814212.56	11.60
						11238034.49	3814231.70	10.40
						11238032.99	3814240.04	10.50
						11238032.90	3814255.29	10.40
						11238037.07	3814258.71	10.40
						11238071.50	3814261.46	9.76
						11238099.75	3814264.05	8.84

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11238103.51	3814259.21	8.84
						11238102.92	3814241.21	8.84
						11238097.59	3814236.29	8.84
						11238036.24	3814231.12	10.40
						11238112.56	3814239.62	8.84
						11238108.46	3814246.89	8.84
						11238105.41	3814257.35	8.84
						11238103.30	3814270.71	8.84
						11238114.15	3814274.15	8.93
						11238162.18	3814277.99	8.54
						11238169.19	3814272.83	8.54
						11238172.37	3814250.73	8.84
						11238172.50	3814218.98	8.84
						11238164.30	3814210.64	8.54
						11238121.56	3814208.39	8.84
						11238114.94	3814217.25	8.84
						11238112.16	3814239.35	8.84
						11238112.72	3814207.99	8.84
						11238091.71	3814201.80	8.84
						11238077.95	3814210.62	9.15
						11238074.07	3814220.91	8.99
						11238085.10	3814231.21	8.84
						11238099.06	3814234.46	8.84
						11238035.65	3814154.34	9.15
						11238032.74	3814175.25	9.45
						11238059.21	3814185.97	9.76
						11238107.77	3814188.61	9.15
						11238122.06	3814164.66	9.15
						11238120.07	3814155.53	9.15
						11237903.76	3814209.71	11.70
						11237902.44	3814191.06	11.50
						11237901.25	3814153.21	11.50
						11237899.92	3814136.14	11.60
						11237930.89	3814133.89	11.50
						11237935.25	3814206.67	11.50
						11237933.93	3814132.97	11.50
						11237963.18	3814143.95	11.00
						11237993.61	3814171.60	9.45
						11238023.78	3814173.72	9.76
						11237898.20	3814133.45	11.00
						11237897.36	3814121.11	8.54
						11237893.03	3814100.94	7.62
						11237880.03	3814067.93	7.62
						11237861.35	3814016.74	7.62
						11237844.60	3814008.66	7.32
						11237824.93	3813996.32	7.32
						11237916.25	3814099.08	7.93
						11237901.43	3814082.14	7.62
						11237900.90	3814072.35	7.74
						11237912.78	3814050.56	7.32
						11237892.08	3814029.08	7.32
						11237877.91	3814010.91	7.32
						11237871.24	3813998.24	7.26
						11237854.43	3813994.25	7.32
						11237831.96	3813999.08	7.30
						11237821.24	3813984.16	7.32
						11237825.75	3813978.00	7.56
						11237860.61	3813946.91	7.56
						11237881.20	3813937.25	7.32
						11237900.52	3813973.37	7.32
						11237925.85	3813991.70	6.71
						11237971.28	3814054.17	7.62
						11237957.78	3814072.04	7.62



Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin (m)	End (m)	x (m)	y (m)	z (m)
						11237921.26	3814097.71	7.62
						11237984.06	3814104.64	11.30
						11238018.30	3814121.86	10.40
						11238056.65	3814140.87	8.84
						11238109.00	3814156.21	8.84

### Geometrie Bruchkanten

Name	M.	ID	Coordinates	
			x (m)	y (m)

**RESULTS: SOUND LEVELS**

**Heritage Ridge**

Rincon Consultants, Inc.						20 November 2015							
<Analysis By?>						TNM 2.5							
						Calculated with TNM 2.5							
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT:</b>		Heritage Ridge											
<b>RUN:</b>		Existing Noise											
<b>BARRIER DESIGN:</b>		INPUT HEIGHTS						Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.					
<b>ATMOSPHERICS:</b>		68 deg F, 50% RH											
<b>Receiver</b>													
<b>Name</b>		<b>No.</b>	<b>#DUs</b>	<b>Existing LAeq1h</b>	<b>No Barrier LAeq1h Calculated</b>	<b>Crit'n</b>	<b>Increase over existing Calculated</b>	<b>Crit'n</b>	<b>Type Impact</b>	<b>With Barrier Calculated LAeq1h</b>	<b>Noise Reduction</b>		
											<b>Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>
				dB	dB	dB	dB	dB		dB	dB	dB	dB
Willow Springs I and II		5	1	0.0	62.1	66	62.1	10	----	62.1	0.0	8	-8.0
Project Site		7	1	0.0	65.9	66	65.9	10	----	65.9	0.0	8	-8.0
Noise Measurement		11	1	0.0	62.8	66	62.8	10	----	62.8	0.0	8	-8.0
<b>Dwelling Units</b>			<b># DUs</b>	<b>Noise Reduction</b>									
				<b>Min</b>	<b>Avg</b>	<b>Max</b>							
				<b>dB</b>	<b>dB</b>	<b>dB</b>							
All Selected			3	0.0	0.0	0.0							
All Impacted			0	0.0	0.0	0.0							
All that meet NR Goal			0	0.0	0.0	0.0							

RESULTS: SOUND LEVELS

Heritage Ridge

Rincon Consultants, Inc.  
<Analysis By?>

6 April 2021  
TNM 2.5  
Calculated with TNM 2.5

RESULTS: SOUND LEVELS

PROJECT/CONTRACT: Heritage Ridge  
RUN: Existing + Project Noise  
BARRIER DESIGN: INPUT HEIGHTS

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

ATMOSPHERICS: 68 deg F, 50% RH

Receiver

Name	No.	#DUs	Existing LAeq1h dBA	No Barrier				With Barrier				
				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h dBA	Noise Reduction		Calculated minus Goal dBA
				Calculated dBA	Crit'n dBA	Calculated dB	Crit'n dB			Calculated dB	Goal dB	
Willow Springs I and II	5	1	0.0	63.8	66	63.8	10	----	63.8	0.0	8	-8.0
Project Site	7	1	0.0	66.1	66	66.1	10	Snd Lvl	66.1	0.0	8	-8.0
Noise Measurement	11	1	0.0	62.8	66	62.8	10	----	62.8	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	3	0.0	0.0	0.0
All Impacted	1	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

**RESULTS: SOUND LEVELS**

**Heritage Ridge**

Rincon Consultants, Inc.						20 November 2015						
<Analysis By?>						TNM 2.5						
						Calculated with TNM 2.5						
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>		Heritage Ridge										
<b>RUN:</b>		Cumulative										
<b>BARRIER DESIGN:</b>		INPUT HEIGHTS										
<b>ATMOSPHERICS:</b>		68 deg F, 50% RH										
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing LAeq1h</b>	<b>No Barrier LAeq1h Calculated</b>	<b>Crit'n</b>	<b>Increase over existing Calculated</b>	<b>Crit'n Sub'l Inc</b>	<b>Type Impact</b>	<b>With Barrier Calculated LAeq1h</b>	<b>Noise Reduction Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>
			dB	dB	dB	dB	dB		dB	dB	dB	dB
Willow Springs I and II	5	1	0.0	64.1	66	64.1	10	----	64.1	0.0	8	-8.0
Project Site	7	1	0.0	67.4	66	67.4	10	Snd Lvl	67.4	0.0	8	-8.0
Noise Measurement	11	1	0.0	64.6	66	64.6	10	----	64.6	0.0	8	-8.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min</b>	<b>Avg</b>	<b>Max</b>							
			<b>dB</b>	<b>dB</b>	<b>dB</b>							
All Selected		3	0.0	0.0	0.0							
All Impacted		1	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

RESULTS: SOUND LEVELS

Heritage Ridge

Rincon Consultants, Inc.  
<Analysis By?>

6 April 2021  
TNM 2.5  
Calculated with TNM 2.5

RESULTS: SOUND LEVELS

PROJECT/CONTRACT: Heritage Ridge  
RUN: Cumulative + Project  
BARRIER DESIGN: INPUT HEIGHTS

ATMOSPHERICS: 68 deg F, 50% RH

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

Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier					With Barrier			
				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h	Noise Reduction		Calculated minus Goal
				Calculated	Crit'n	Calculated	Crit'n			Sub'l Inc	Calculated	
dB	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB		
Willow Springs I and II	5	1	0.0	65.2	66	65.2	10	----	65.2	0.0	8	-8.0
Project Site	7	1	0.0	67.5	66	67.5	10	Snd Lvl	67.5	0.0	8	-8.0
Noise Measurement	11	1	0.0	64.6	66	64.6	10	----	64.6	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		3	0.0	0.0	0.0							
All Impacted		1	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

# Appendix I

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*Updated Traffic and Circulation Study and VMT Calculations*



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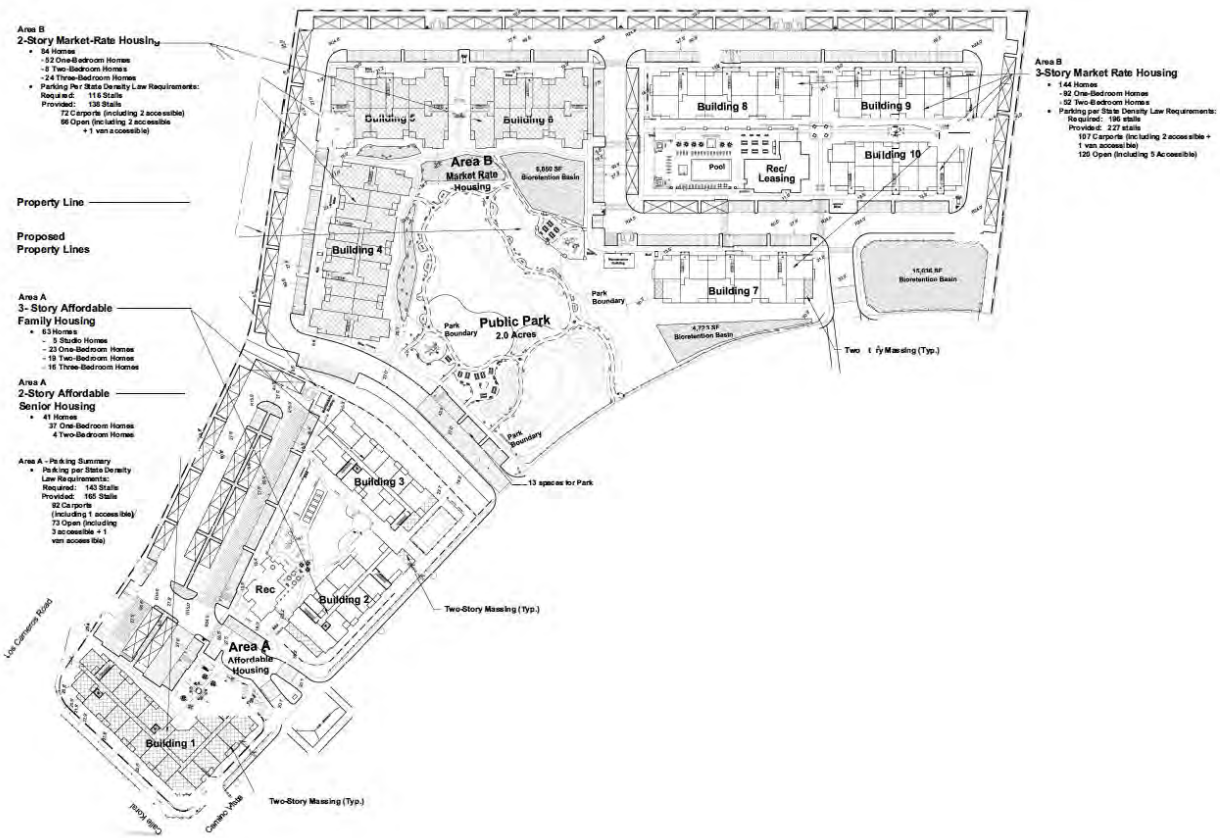
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# HERITAGE RIDGE PROJECT CITY OF GOLETA, CALIFORNIA

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## UPDATED TRAFFIC AND CIRCULATION STUDY

---



March 31, 2021

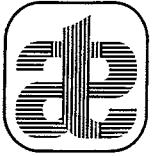
ATE Project #20058.01

Prepared for:  
TK Consulting  
2082 Michelson Drive, 4<sup>th</sup> Floor  
Irvine, CA 92612



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# ASSOCIATED TRANSPORTATION ENGINEERS

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Since 1978

Richard L. Pool, P.E.  
Scott A. Schell

March 31, 2021

2005801R01

Jared Nuzman  
TK Consulting  
2082 Michelson Drive, 4<sup>th</sup> Floor  
Irvine, CA 92612

## UPDATED TRAFFIC AND CIRCULATION STUDY FOR THE HERITAGE RIDGE PROJECT – CITY OF GOLETA

Associated Transportation Engineers (ATE) has prepared the following updated traffic and circulation study for the Heritage Ridge Project proposed in the City of Goleta. ATE prepared a report in 2016 for the project and City staff requested that the traffic study be updated due to the age of the existing traffic counts.

Associated Transportation Engineers

Scott A. Schell  
Principal Transportation Planner



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## INTRODUCTION

The following report presents the results of the updated traffic and circulation analysis prepared for the Heritage Ridge Project (the “Project”) proposed in the City of Goleta. The report evaluates existing and future traffic operations for key roadways and intersections that were identified by City staff in order to determine the Project’s consistency with City’s General Plan level of service transportation policies.

## PROJECT DESCRIPTION

The Project is proposing to construct a 332 apartment units and a 2-acre park on a currently vacant site located on the east side of Los Carneros Way north of the Calle Koral intersection in the western area of the City of Goleta. Figure 1 shows the Project location within the City. As shown on Figure 2 (Project Site Plan), 228 units are designated as market rate units, 63 units are designated as affordable family units, and 41 units are designated as affordable senior units. Access to the site would be provided via three driveways on Camino Vista, which extends along the southern frontage of the site.

## EXISTING CONDITIONS

### Street Network

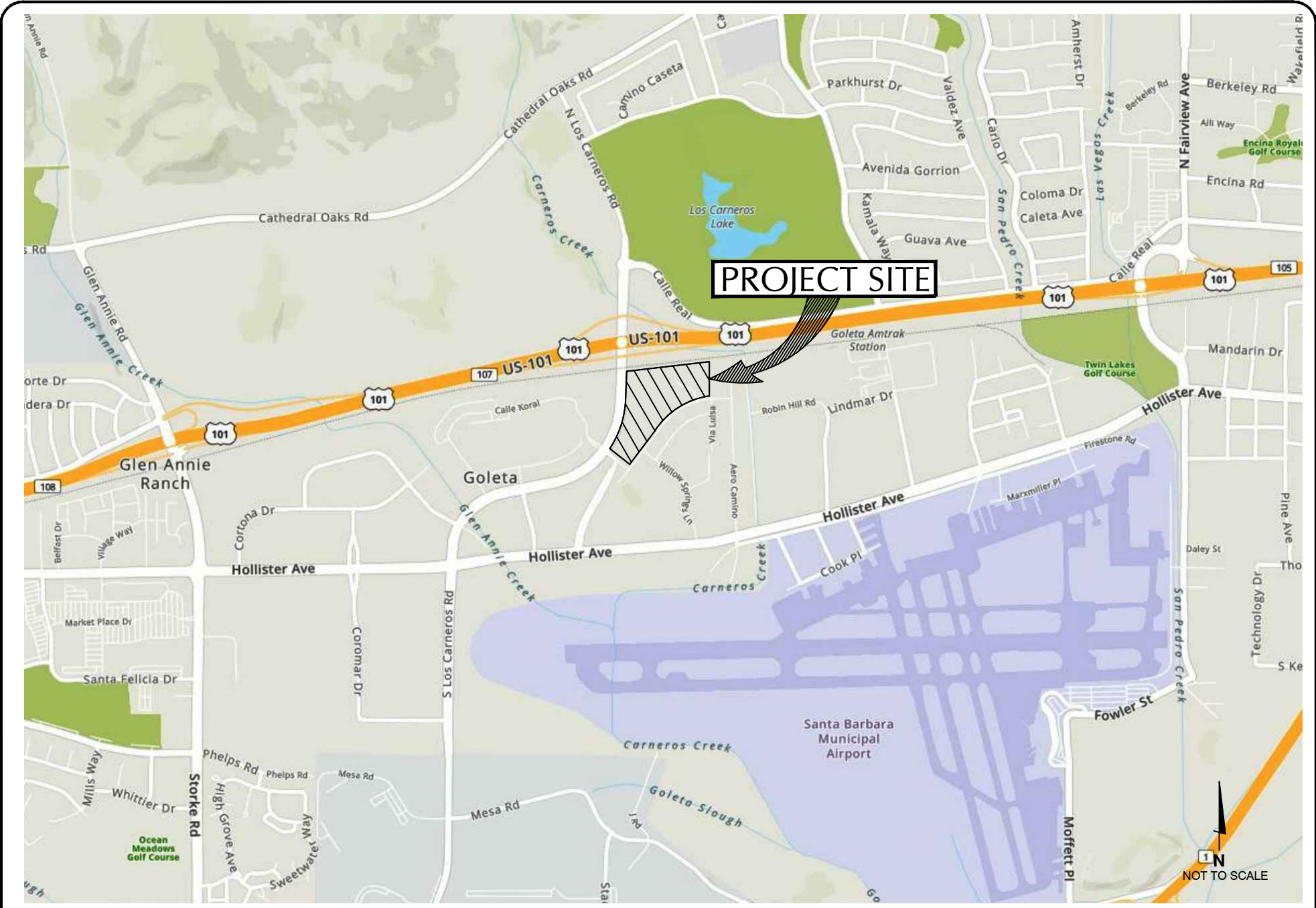
The Project site is served by a network of highways, arterial roadways, and collector streets, as shown in Figure 3. The following text briefly describes the major components of the study-area street network.

**US 101**, located north of the Project site, is a multi-lane interstate highway serving the Pacific coast between Los Angeles and the state of Washington. US 101 is the principal route between the City of Goleta and the adjacent cities of Santa Barbara, Carpinteria, and Ventura to the south; and the cities of Buellton and Santa Maria to the north. Project access to US 101 would be provided via the Los Carneros Road interchange.

**Hollister Avenue**, located south of the Project, is an arterial roadway that serves as the main east-west surface street through the community of Goleta. Hollister Avenue is a 4-lane divided arterial with on-street bike lanes.

**Los Carneros Road**, located west of the Project site, is a north-south arterial street. North of Hollister Avenue, Los Carneros Road extends as a 4- to 5-lane roadway connecting with the US 101 interchange and continues north to its terminus at Cathedral Oak Road. Los Carneros Road is a 4-lane arterial south of Hollister Avenue to Discovery Drive and a 2-lane arterial south of Discovery Drive to El Colegio Road.

**Los Carneros Way** is a 2-lane road located south of the Project site that extends between Calle Koral and Hollister Avenue.

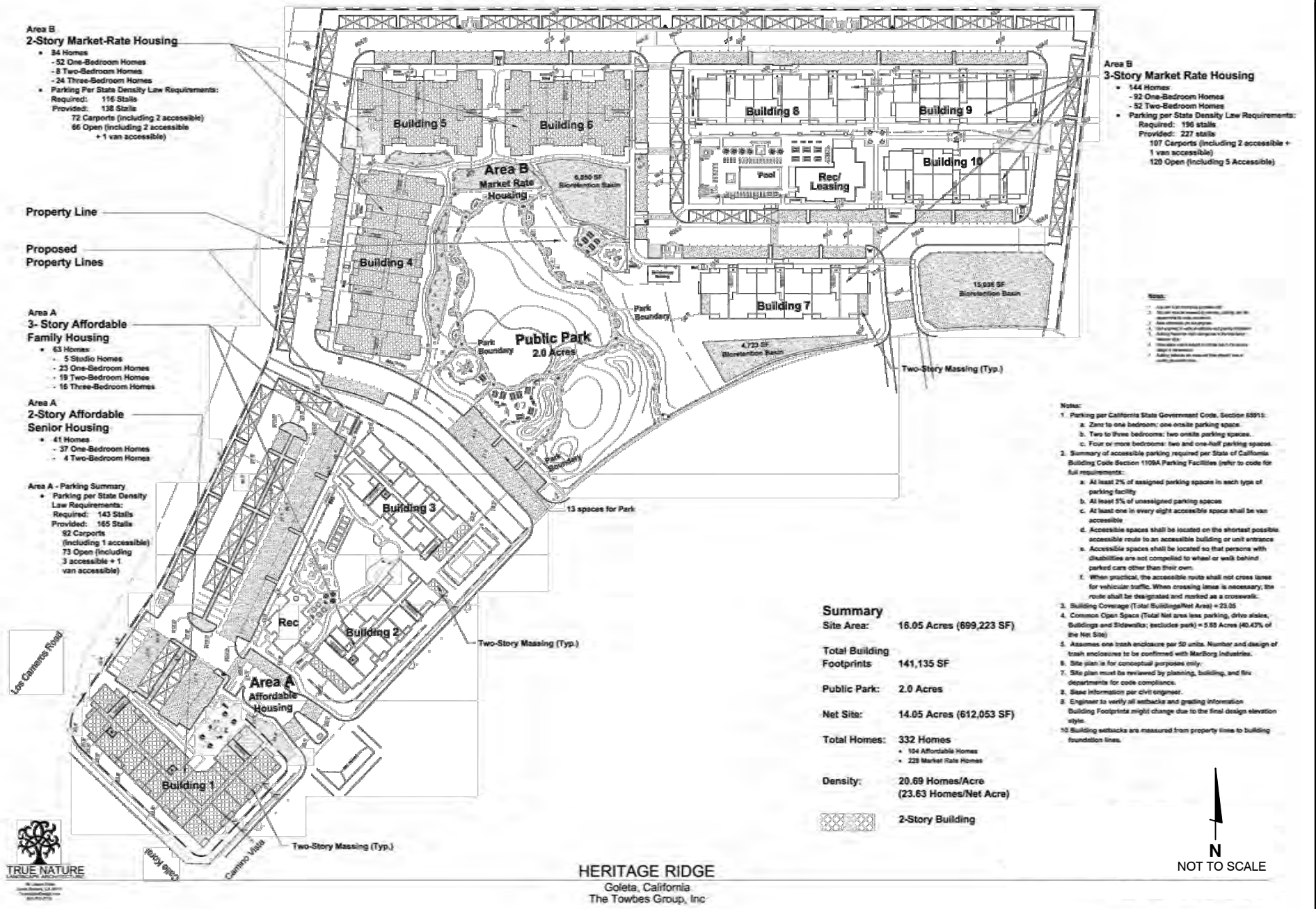


PROJECT SITE LOCATION

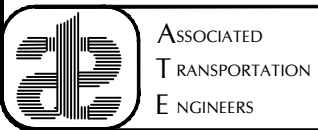
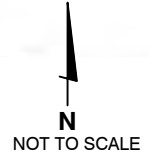
FIGURE 1



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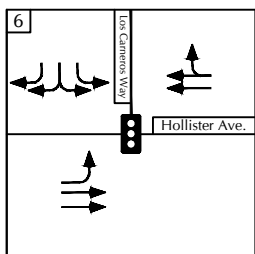
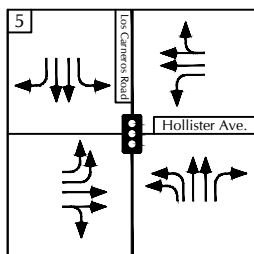
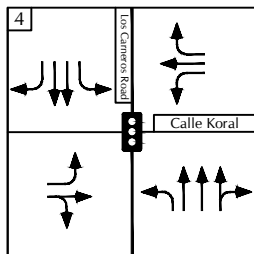
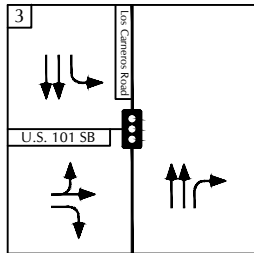
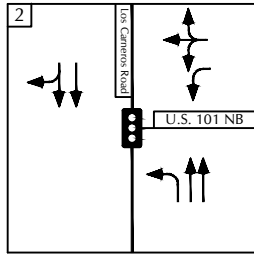
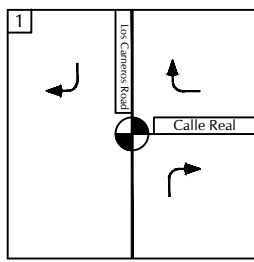
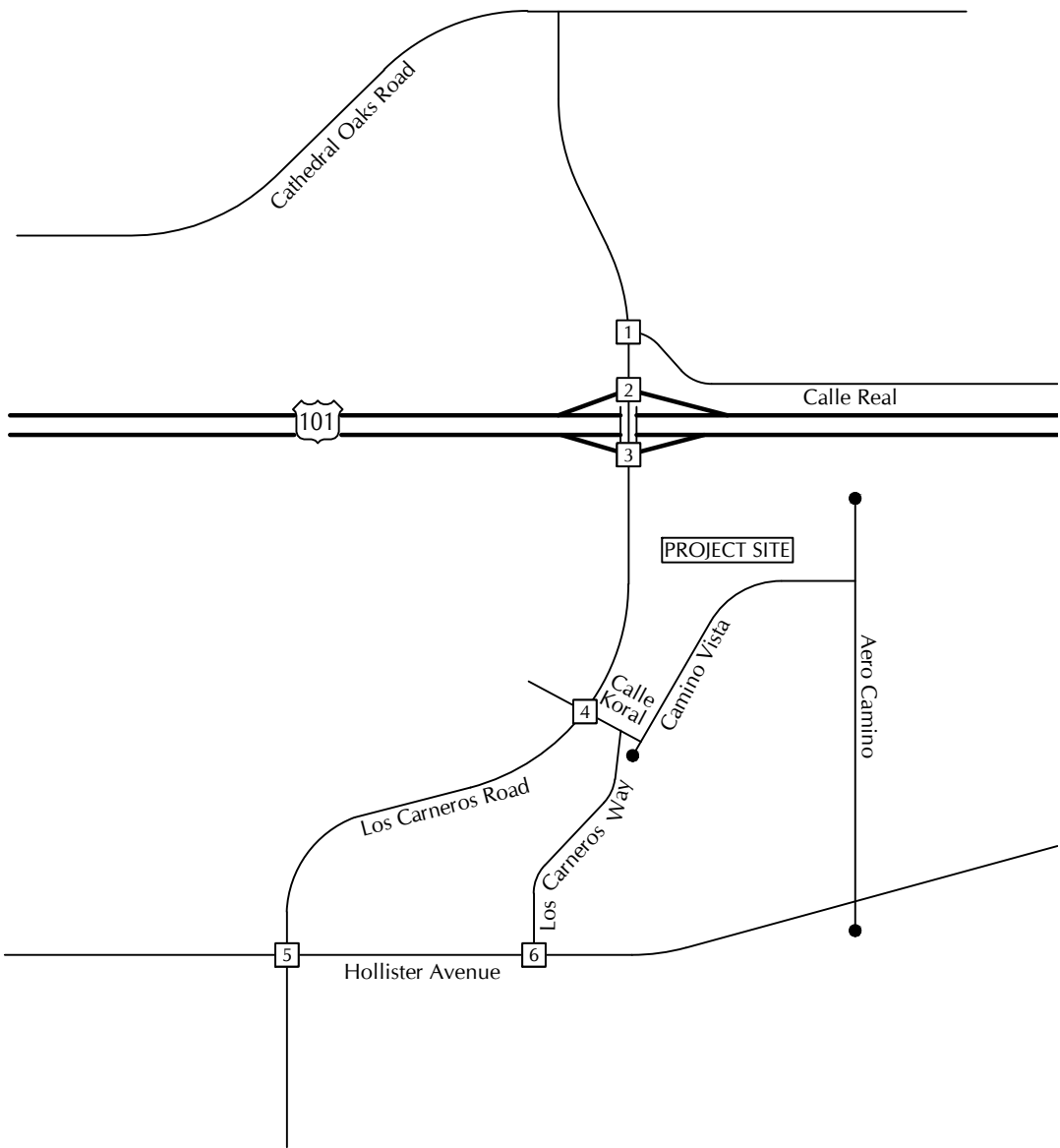
HERITAGE RIDGE  
Goleta, California  
The Towbes Group, Inc



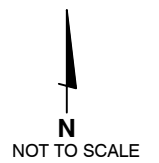
PROJECT SITE PLAN

FIGURE 2

JH - ATE#20058.01



- LEGEND**
- Lane Geometry
  - Signalized Intersection
  - Stopped Approach
  - Roundabout



EXISTING STREET NETWORK

FIGURE 3



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TRANSPORTATION  
ENGINEERS

**Calle Koral**, located southwest of the Project, is a 2-lane road that extends from Los Carneros Road to Camino Vista.

**Camino Vista**, located along the southern frontage of the Project site, is a 2-lane road that extends between Calle Koral and Aero Camino. Project access is proposed via 3 driveways on Camino Vista.

**Aero Camino**, located east of the Project site, is a 2-lane road that serves the existing industrial land uses and extends north from Hollister Avenue to its terminus south of US 101.

## Roadway Operations

Figure 4 shows the Existing average daily traffic (ADT) volumes for the key study-area roadway segments identified for analysis. Existing roadway volumes collected by the City in 2019 were used in the analysis. The City of Goleta has established LOS C as the minimum acceptable operating standard for roadways. The operational characteristics of the study-area roadways were analyzed based on the LOS C policy and City’s “Acceptable Capacity” rating system (see Technical Appendix for roadway capacity and LOS C summary table). Table 1 shows the Existing ADT volumes and the City’s Acceptable Capacity thresholds (LOS C thresholds) for the key roadways in the study-area. As shown, the study-area roadway segments currently carry traffic volumes within the City’s Acceptable Capacity ratings, which indicates LOS C or better.

**Table 1**  
**Existing Roadway Operations**

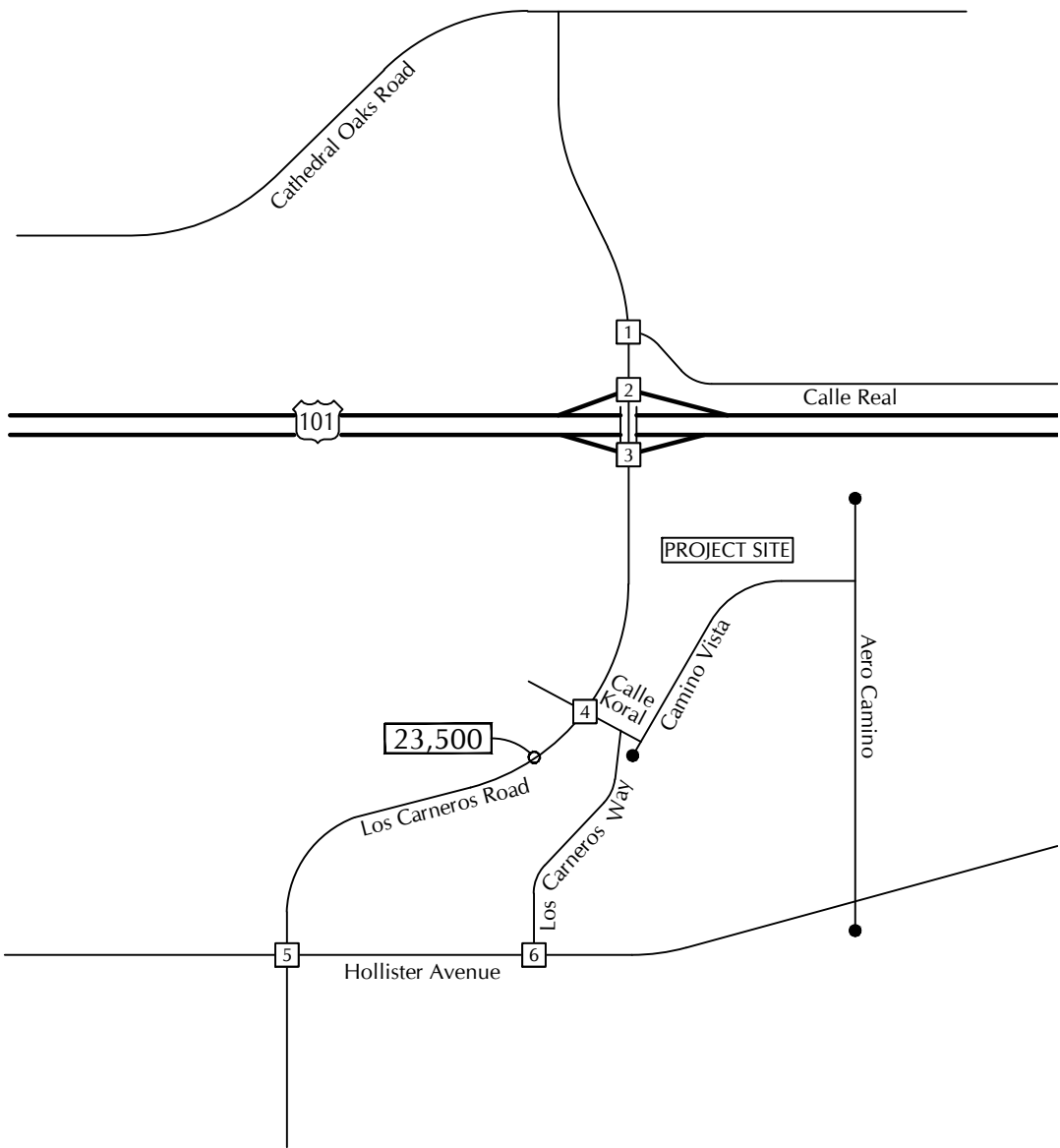
Roadway Segment	Roadway Classification	Number of Lanes	Acceptable Capacity(a)	Existing ADT
Los Carneros Road s/o Calle Koral	Major Arterial	4 Lanes	34,000	23,500

(a) Acceptable Capacity equates to LOS C standard.

## Intersection Operations

Because traffic flows on street networks are most constrained at intersections, detailed traffic analyses focus on operations at key intersections during peak travel periods. In rating intersection operations, “Levels of Service” (LOS) A through F are used, with LOS A indicating free flow operations and LOS F indicating congested operations (more complete definitions of levels of service are included in the Technical Appendix). The City of Goleta has established LOS C as the minimum acceptable operating standard for intersections.

Existing peak hour volumes collected by the City in 2019 were used in the analysis (traffic count data is contained in the Technical Appendix for reference). The 2019 volumes were adjusted to account for traffic generated by two post-2019 developments: 1) The Villages at Los Carneros located west of the Los Carneros Road/Calle Koral intersection and 2) the Target store located near the Storke Road/Hollister Avenue intersection.



1	2300 106(300)	(15)21 (301)392	(216)513 (157)296 (8)20
---	------------------	--------------------	-------------------------------

2	336(463) 190(133)	(51)59 (2)7 (1061)516	(313)766 (48)316
---	----------------------	-----------------------------	---------------------

3	58(96) 756(1439)	(472)1101 (227)940	
	134(144) 1(4) 50(201)		

4	92(221) 634(1365) 73(40)	(110)365 (12)18 (40)27	(26)52 (473)1599 (5)30
	83(111) 7(12) 18(35)		

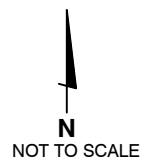
5	50(37) 511(464) 183(222)	(38)37 (284)621 (100)156	(73)140 (344)649 (59)225
	358(109) 403(495) 122(218)		

6	40(115) 23(49)	(38)160 (368)780	
	43(21) 538(579)		

**LEGEND**

(XX)XX - (AM)PM Peak Hour Volume

X - Average Daily Traffic Volume



EXISTING TRAFFIC VOLUMES

FIGURE 4



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Figure 4 shows the peak hour turning movements for the study-area intersections. Levels of service were calculated for the signalized intersections using the "Intersection Capacity Utilization" (ICU) methodology adopted by the City (LOS calculations contained in Technical Appendix). As shown in Table 2, the study-area intersections currently operate at LOS C or better, which meet the City's LOS C standard.

**Table 2  
Existing Intersection Operations**

Intersection	Control	AM Peak Hour		PM Peak Hour	
		ICU/Delay	LOS	ICU/Delay	LOS
#1 - Los Carneros Road/Calle Real(a)	Roundabout	6.6 Sec.	A	10.4 Sec.	B
#2 - Los Carneros Road/US 101 NB Ramps	Signal	0.654	B	0.633	B
#3 - Los Carneros Road/US 101 SB Ramps	Signal	0.648	B	0.736	C
#4 - Los Carneros Road/Calle Koral	Signal	0.607	B	0.685	B
#5 - Los Carneros Road/Hollister Avenue	Signal	0.536	A	0.651	B
#6 - Hollister Avenue/Los Carneros Way	Signal	0.317	A	0.427	A

(a) Roundabout intersection LOS based on average delay per vehicle in seconds.

## CITY OF GOLETA CONSISTENCY CRITERIA

The transportation policies and standards outlined in City's Circulation Element of the General Plan were used to evaluate the Project's consistency with the City's General Plan (Policies TE 4.1-4.3). As outlined in the Circulation Element, the policies state that the traffic standard is to maintain LOS C or better on major arterials, minor arterials, collector roadways, and at intersections. A deficiency plan is required where LOS C is exceeded. The Circulation Element policies include an exception for the Storke-Hollister intersection, where the policy is to maintain LOS D or better with a volume-to-capacity of 0.89 or better.

## EXISTING + PROJECT ANALYSIS

### Trip Generation

Following City recommendations, trip generation estimates were calculated using the rates presented in the Institute of Transportation Engineers (ITE) Trip Generation Manual.<sup>1</sup> For the market rate apartments, the analysis uses the ITE Multi Family Housing – Low Rise rates (ITE Land Use Code #220) to calculate average daily trips. The AM and PM peak hour trip rates were developed from driveway counts collected at the existing Willow Springs apartments since they reflect local conditions and are slightly higher than the ITE average rates for apartment units.

<sup>1</sup> Trip Generation, Institute of Transportation Engineers, 10<sup>th</sup> Edition, 2017.

For the affordable rate apartments, the analysis is based on adjusted ITE rates since affordable apartments generate less traffic than market rate apartments. According to data contained in OPR Technical Advisory on Evaluating Transportation impacts in CEQA, affordable housing units generate less traffic than market rate units. The Technical Advisory states, "Adding affordable housing to infill locations generally improves jobs-housing match, in turn shortening commutes and reducing vehicle miles traveled." The studies cited in the advisory indicate that affordable multifamily units in suburban areas generate about 71% of the traffic generated by market-rate units in suburban areas. Thus, the ITE Apartment rates (ITE Land Use Code #220) were adjusted for the affordable rate apartments to reflect 71% of the traffic for market rate units. Similarly, for the affordable senior apartments, the ITE rates for Senior Adult Housing - Attached (ITE Land Use Code #252) were adjusted to reflect 71% of the traffic of market rate units.

Table 3 presents trip generation estimates for the Project (a worksheet showing the trip generation calculations is contained in Technical Appendix).

**Table 3  
Project Trip Generation**

Land Use	Size	ADT		AM Peak Hour		PM Peak Hour	
		Rate	Trips	Rate	Trips (In/Out)	Rate	Trips(In/Out)
Market Rate Apartments(a)	228 DU	7.32	1,669	0.65	148 (25/123)	0.66	150 (105/45)
Affordable Apartments(b)	63 DU	5.20	328	0.46	29 (5/24)	0.47	30 (21/9)
Affordable Senior Apartments(c)	41 DU	2.63	108	0.14	6 (2/4)	0.18	7 (4/3)
Public Park(d)	2 Acres	50.00	<u>100</u>	6.50	<u>13 (7/6)</u>	4.50	<u>9 (5/4)</u>
<b>Totals</b>			<b>2,205</b>		<b>196 (39/157)</b>		<b>196 (135/61)</b>

(a) ADT based on ITE rates for Multifamily Housing (Low Rise - ITE #220). AM & PM rates based on local study.

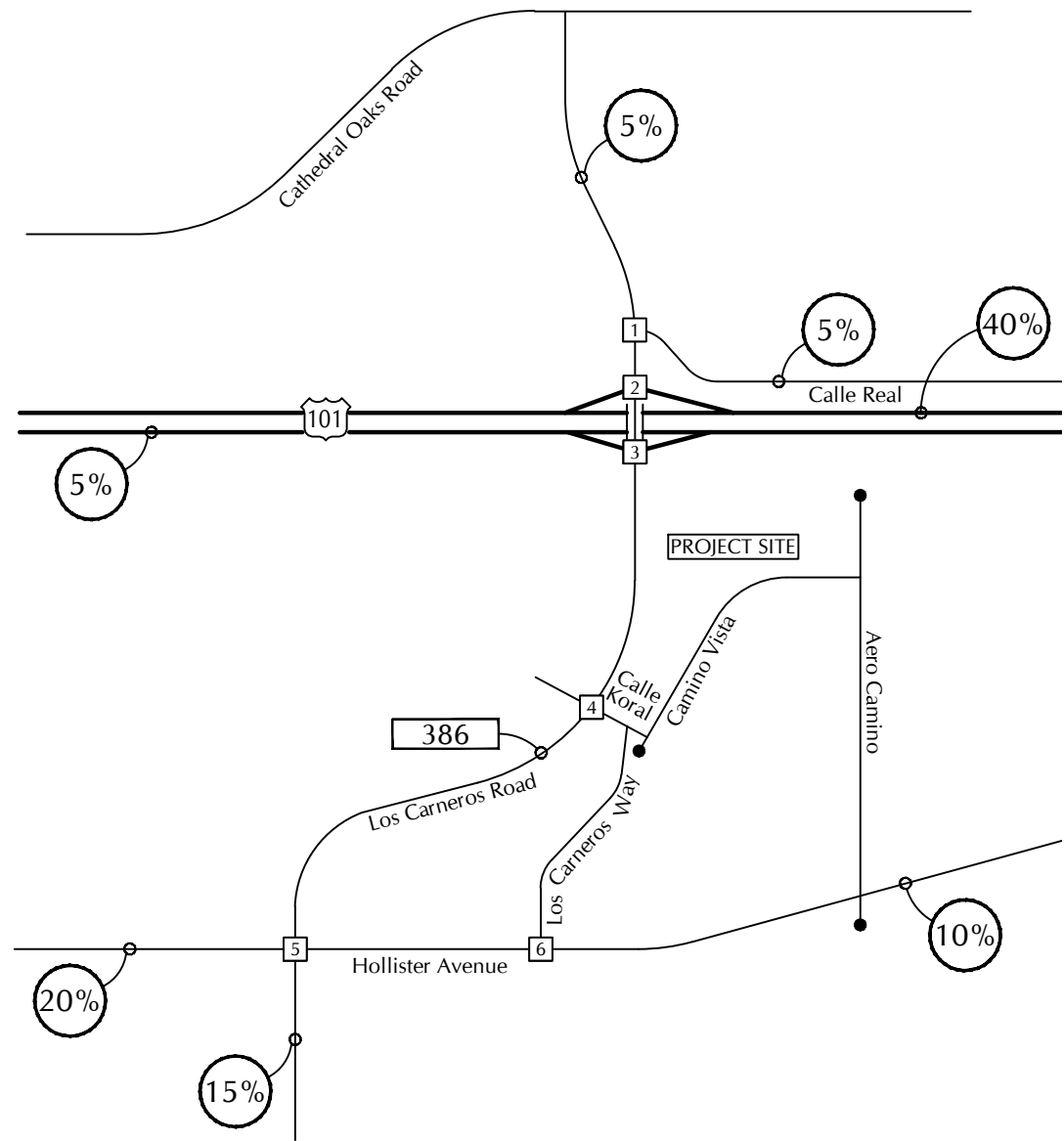
(b) ADT based on ITE rates for Multifamily Housing (Low Rise - ITE #220). AM & PM rates based on local study.

(c) Trip generation based on ITE rates for Senior Adult Housing - Attached (ITE #252). Rates adjusted by 71% to account for affordable housing designation.

As shown in Table 3, the Project is forecast to generate 2,205 ADT, with 196 trips occurring during the AM peak hour and 196 trips occurring during the PM peak hour.

### Trip Distribution

Trip distribution percentages were developed for the Project based on existing traffic patterns observed at the existing Willow Springs apartment complex. Table 4 presents the trip distribution pattern developed for the Project. Figure 5 illustrates the trip distribution pattern and shows the assignment of Project traffic on the study-area street network.



1	7(2) →	← (2)7 ↑ (8)3 ↓ (8)3
---	--------	----------------------------

2	14(4) →	← (15)54 ↑ (16)6 ↓ (8)3
---	---------	-------------------------------

3	68(19) →	← (63)25 ↑ (24)9
---	----------	---------------------

4	75(21) →	← (87)34 ↓ (28)11 ← (7)23
---	----------	---------------------------------

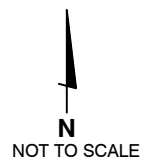
5	5(12) → 16(16) →	← (15)6 ↓ (11)4 ↑ (3)10 ← (3)10
	13(4) → 14(4) →	↑ (3)10

6	10(26) →	
	24(7) →	

LEGEND

←(XX)XX - (AM)PM Peak Hour Volume

X - Average Daily Traffic Volume



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PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

FIGURE 5

JH - ATE#20058.01

**Table 4  
Project Trip Distribution**

<b>Origin/Destination</b>	<b>Direction</b>	<b>Distribution %</b>
US 101	East of Los Carneros	40%
	West of Los Carneros	5%
Hollister Avenue	East of Aero Camino(a)	10%
	West of Los Carneros	20%
Los Carneros Road	South of Hollister	15%
	North of Calle Real	5%
Calle Real	East of Los Carneros	5%
<b>Total:</b>		<b>100%</b>

(a) Via Aero Camino.

### Existing + Project Roadway Operations

Existing + Project roadway volumes are shown on Figure 6. Table 5 compares the Existing and Existing + Project roadway volumes and identifies locations that are forecast to exceed the City's LOS C standard. As shown, the study-area roadways are forecast to carry volumes within their Acceptable Capacity ratings under Existing + Project conditions. Thus, the Project would be consistent with the City's LOS C standard for roadways.

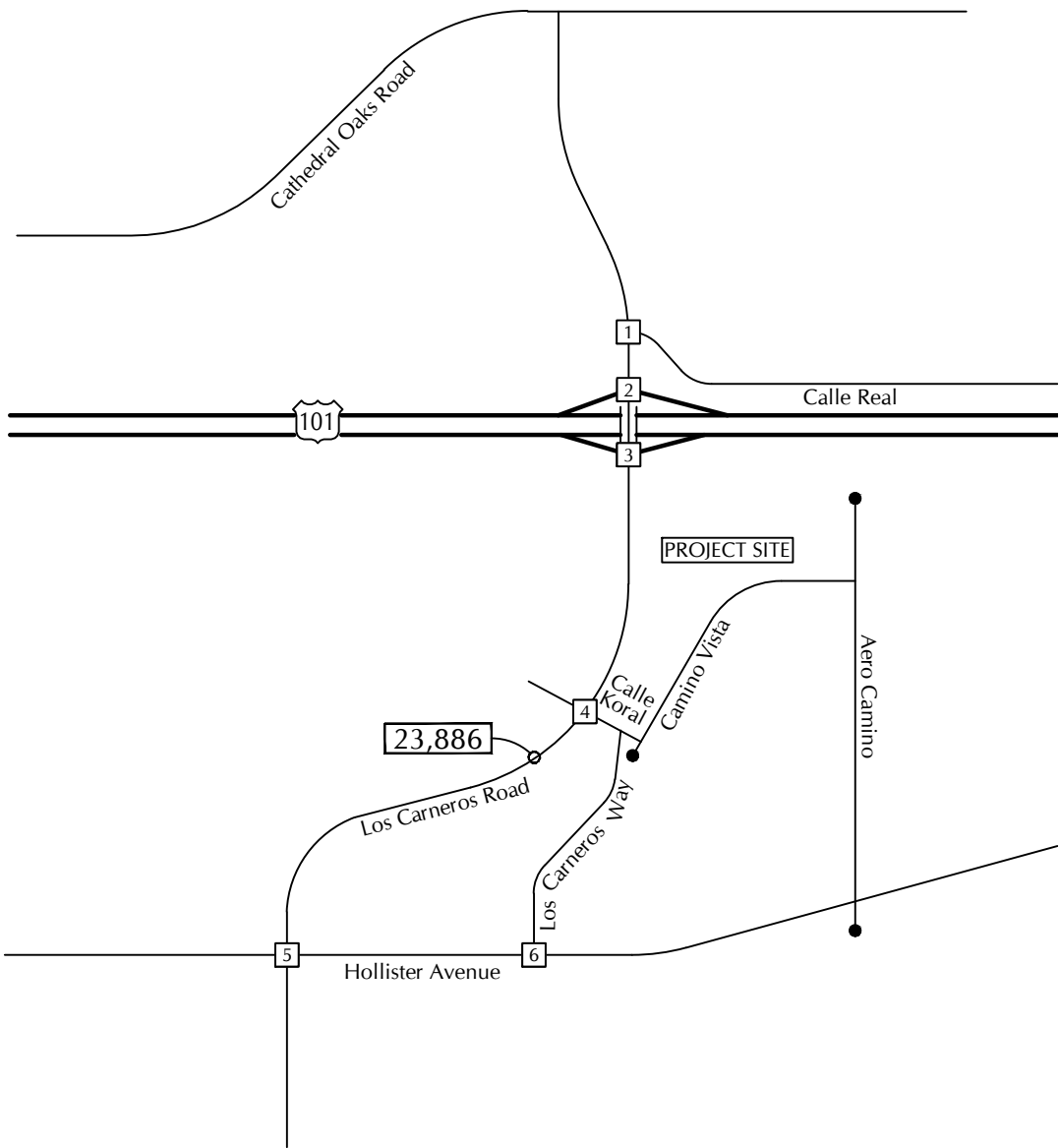
**Table 5  
Existing + Project Roadway Operations**

<b>Roadway Segment</b>	<b>Average Daily Trips</b>				<b>Exceeds LOS C?</b>
	<b>Acceptable Capacity(a)</b>	<b>Existing</b>	<b>Project Added</b>	<b>Existing + Project</b>	
Los Carneros Road s/o Calle Koral	34,000	23,500	386	23,886	No

(a) Acceptable Capacity equates to LOS C standard.

### Existing + Project Intersection Operations

Existing + Project levels of service were calculated for the study-area intersections assuming the traffic volumes presented on Figure 6. Tables 6 and 7 compare the Existing and Existing + Project levels of service and identify intersections that are forecast to exceed the City's LOS C standard.



1	230 113(302)	(15)21 (303)399	(224)516 (165)299 (8)20
---	-----------------	--------------------	-------------------------------

2	350(467) 190(133)	(51)59 (2)7 (1076)570	(329)772 (56)319
---	----------------------	-----------------------------	---------------------

3	58(96) 824(1458)	(535)1126 (25)1949	
	134(144) 1(4) 57(203)		

4	167(242) 634(1365) 73(40)	(197)399 (12)18 (68)38	(33)75 (473)1599
	83(111) 7(12) 18(35)		

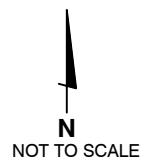
5	50(37) 516(476) 199(238)	(38)37 (299)627 (111)160	(76)150 (347)659 (59)225
	371(113) 417(499) 122(218)		

6	40(115) 33(75)	(38)160 (368)780	
	67(28) 538(579)		

**LEGEND**

(XX)XX - (AM)PM Peak Hour Volume

X - Average Daily Traffic Volume



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EXISTING + PROJECT TRAFFIC VOLUMES

FIGURE 6

JH - ATE#20058.01

**Table 6  
Existing + Project Intersection Operations – AM Peak Hour**

Intersection	Existing		Existing + Project		Exceeds LOS C?
	ICU/Delay	LOS	ICU/Delay	LOS	
#1 - Los Carneros Road/Calle Real(a)	6.6 Sec.	A	6.7 Sec.	A	No
#2 - Los Carneros Road/US 101 NB Ramps	0.654	B	0.667	B	No
#3 - Los Carneros Road/US 101 SB Ramps	0.648	B	0.655	B	No
#4 - Los Carneros Road/Calle Koral	0.607	B	0.607	B	No
#5 - Los Carneros Road/Hollister Avenue	0.536	A	0.547	A	No
#6 - Hollister Avenue/Los Carneros Way	0.317	A	0.317	A	No

(a) Roundabout intersection LOS based on average delay per vehicle in seconds.

**Table 7  
Existing + Project Intersection Operations – PM Peak Hour**

Intersection	Existing		Existing + Project		Exceeds LOS C?
	ICU/Delay	LOS	ICU/Delay	LOS	
#1 - Los Carneros Road/Calle Real(a)	10.4 Sec.	B	10.6 Sec.	B	No
#2 - Los Carneros Road/US 101 NB Ramps	0.633	B	0.656	B	No
#3 - Los Carneros Road/US 101 SB Ramps	0.736	C	0.748	C	No
#4 - Los Carneros Road/Calle Koral	0.685	B	0.706	C	No
#5 - Los Carneros Road/Hollister Avenue	0.651	B	0.660	B	No
#6 - Hollister Avenue/Los Carneros Way	0.427	A	0.442	A	No

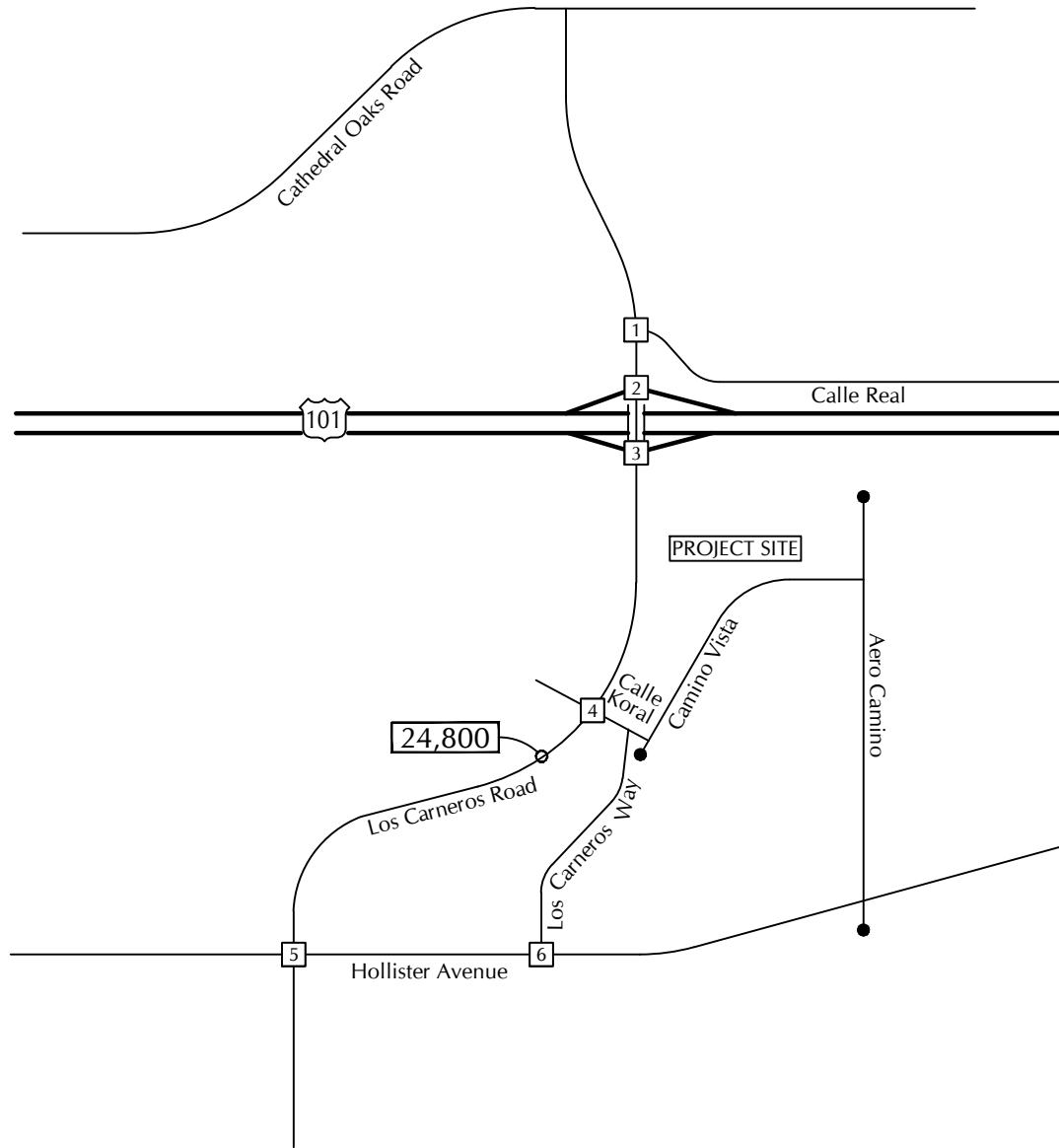
(a) Roundabout intersection LOS based on average delay per vehicle in seconds.

As shown in Tables 6 and 7, the study-area intersections are forecast to operate at LOS C or better under Existing + Project conditions. Thus, the Project would be consistent with the City’s LOS C standard for intersections.

## CUMULATIVE ANALYSIS

### Traffic Forecasts

Cumulative traffic volumes were forecast based on a list of approved and pending projects proposed within the City of Goleta (the list of approved and pending projects is contained in the Technical Appendix for reference). Cumulative traffic volumes are shown on Figure 7 and Cumulative + Project volumes are shown on Figure 8.



1	230 110(304)	(15)21 (302)395	(219)515 (161)302 (8)20
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2	340(467) 193(134)	(51)59 (2)7 (1102)557	(320)774 (57)331
---	----------------------	-----------------------------	---------------------

3	58(96) 801(1484)	(513)1159 (240)961	136(147) 1(4) 60(213)
---	---------------------	-----------------------	-----------------------------

4	92(221) 689(1422) 73(40)	(110)365 (12)18 (40)27	83(111) 7(12) 18(35)
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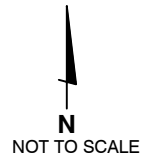
5	50(37) 539(494) 198(237)	(38)37 (299)643 (105)161	378(124) 421(516) 123(219)
---	--------------------------------	--------------------------------	----------------------------------

6	40(115) 23(49)	(38)160 (388)807	43(21) 561(604)
---	-------------------	---------------------	--------------------

**LEGEND**

(XX)XX - (AM)PM Peak Hour Volume

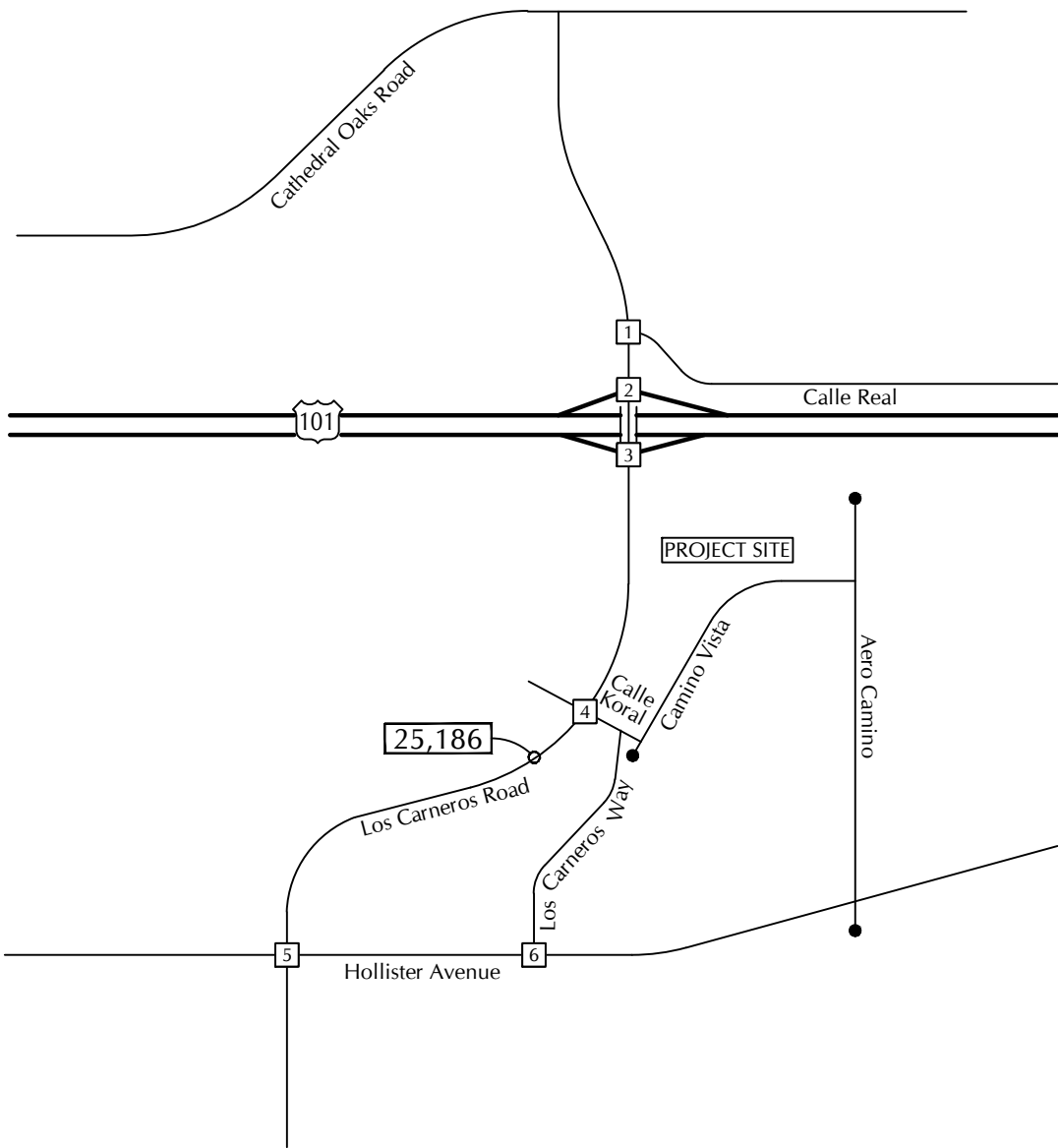
X - Average Daily Traffic Volume



CUMULATIVE TRAFFIC VOLUMES

FIGURE 7





1	230 117(306)	(15)21 (304)402	(227)518 (169)305 (8)20
---	-----------------	--------------------	-------------------------------

2	354(471) 193(134)	(51)59 (2)7 (1117)611	(336)780 (65)334
---	----------------------	-----------------------------	---------------------

3	58(96) 869(1503)	(576)1184 (264)970	136(147) 1(4) 67(215)
---	---------------------	-----------------------	-----------------------------

4	167(242) 689(1422) 73(40)	(197)399 (12)18 (68)38	83(111) 7(12) 18(35)
---	---------------------------------	------------------------------	----------------------------

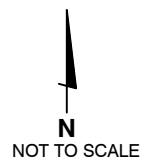
5	50(37) 544(506) 214(253)	(38)37 (329)655 (127)169	391(128) 435(520) 123(219)
---	--------------------------------	--------------------------------	----------------------------------

6	40(115) 33(75)	(38)160 (388)807	67(28) 561(604)
---	-------------------	---------------------	--------------------

**LEGEND**

(XX)XX - (AM)PM Peak Hour Volume

X - Average Daily Traffic Volume



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CUMULATIVE + PROJECT TRAFFIC VOLUMES

FIGURE 8



## Cumulative + Project Roadway Operations

Table 8 compares the Cumulative and Cumulative + Project roadway operations and identifies locations forecast to exceed the City's LOS C standard.

**Table 8**  
**Cumulative + Project Roadway Operations**

Roadway Segment	Average Daily Trips			Exceeds LOS C?	
	Acceptable Capacity(a)	Cumulative	Project Added		
Los Carneros Road s/o Calle Koral	34,000	24,800	386	25,186	No

(a) Acceptable Capacity equates to LOS C standard.

As shown in Table 8, the study-area roadways are forecast to carry volumes within their Acceptable Capacity ratings with Cumulative and Cumulative + Project traffic. Thus, the Project would be consistent with the City's LOS C standard for roadways.

## Cumulative + Project Intersection Operations

Cumulative and Cumulative + Project levels of service were calculated for the study-area intersections assuming the traffic volumes presented on Figures 7 and 8. Tables 9 and 10 compare the Cumulative and Cumulative + Project levels of service and identify locations forecast to exceed the City's LOS C standard.

**Table 9**  
**Cumulative + Project Intersection Operations – AM Peak Hour**

Intersection	Cumulative		Cumulative + Project		Exceeds LOS C?
	ICU/Delay	LOS	ICU/Delay	LOS	
#1 - Los Carneros Road/Calle Real(a)	6.7 Sec.	A	6.8 Sec.	A	No
#2 - Los Carneros Road/US 101 NB Ramps	0.674	B	0.685	B	No
#3 - Los Carneros Road/US 101 SB Ramps	0.668	B	0.675	B	No
#4 - Los Carneros Road/Calle Koral	0.640	B	0.640	B	No
#5 - Los Carneros Road/Hollister Avenue	0.556	A	0.568	A	No
#6 - Hollister Avenue/Los Carneros Way	0.325	A	0.325	A	No

(a) Roundabout intersection LOS based on average delay per vehicle in seconds.

**Table 10**  
**Cumulative + Project Intersection Operations – PM Peak Hour**

Intersection	Cumulative		Cumulative + Project		Exceeds LOS C?
	ICU/Delay	LOS	ICU/Delay	LOS	
#1 - Los Carneros Road/Calle Real(a)	10.6 Sec.	B	10.8 Sec.	B	No
#2 - Los Carneros Road/US 101 NB Ramps	0.633	B	0.660	B	No
#3 - Los Carneros Road/US 101 SB Ramps	0.765	C	0.777	C	No
#4 - Los Carneros Road/Calle Koral	0.701	C	0.723	C	No
#5 - Los Carneros Road/Hollister Avenue	0.675	B	0.683	B	No
#6 - Hollister Avenue/Los Carneros Way	0.435	A	0.450	A	No

(a) Roundabout intersection LOS based on average delay per vehicle in seconds.

The data presented in Tables 9 and 10 show that the study-area intersections are forecast to operate at LOS C or better under Cumulative and Cumulative + Project conditions. Thus, the Project would be consistent with the City’s LOS C standard for intersections.

### **LOS CARNEROS ROAD/CALLE KORAL – LEFT-TURN PHASING**

The Los Carneros Road/Calle Koral intersection is signalized and includes separate left-turn phasing (green arrow) for turning left from Los Carneros Road onto Calle Koral. However, the signals for the Calle Koral approaches do not currently include separate left-turn phasing. The need for left-turn phasing on Calle Koral was evaluated using the methods recommended by the Federal Highways Administration (FHWA).<sup>1</sup> A copy of the evaluation criteria is included in the Technical Appendix for reference.

The evaluation criteria include accident analysis, sight distances, vehicle speeds, traffic volumes, and other relevant information specific to the intersection. The first step in the evaluation process is to determine if the number of accidents that could have been avoided by provision of separate left-turn phasing meets or exceed the minimum threshold. The City provided accident data for the intersection that includes the 3-year period of 2017, 2018, and 2019. According to the evaluation criteria, the minimum number of potential correctable accidents is 13 during a 3-year period. The data show that there were 0 accidents related to vehicles turning left from Calle Koral. Adequate sight distances are present for the left turns, and vehicle speeds and traffic volumes are below the minimum criteria. Thus, separate left-turn phasing (green arrows) on Calle Koral is not warranted based on the FHWA evaluation criteria. It is recommended that the City continue to monitor traffic conditions at the intersection and the need for left-turn phasing.

<sup>1</sup> TRAFFIC SIGNAL TIMING MANUAL, Publication Number: FHWA-HOP-08-024, Federal Highways Administration, June 2008.

## POTENTIAL CONSTRUCTION IMPACTS

The EIR included an evaluation of potential impacts that would be generated by construction of the Project, with soil exports generating the highest traffic during the construction phase. Based on information provided by the City, the soil export activity would result in a total of 51 passenger car equivalent (PCE) trips during the AM and PM peak hour periods and the EIR concluded that that traffic was found to be insignificant (would not significantly impact levels of service to the streets and intersection in the study area) based on the older 2013 traffic counts).

As shown in Table 3, the proposed Project is forecast to generate 196 trips during the AM and PM peak hour periods and the study-area roadways and intersections are forecast to operate at LOS C or better under Existing + Project and Cumulative + Project conditions (see Tables 5-7). Thus, it can be concluded that the study-area roadways and intersections would operate at LOS C or better with the 51 trips that would be generated during the AM and PM peak hours during the construction phase of the Project.



## REFERENCES AND PERSONS CONTACTED

### Associated Transportation Engineers

Richard L. Pool, PE, Principal Engineer  
Scott A. Schell, Principal Transportation Planner  
Dan Dawson, Supervising Transportation Planner  
Jiho Oh, Transportation Engineer

### References

Final Traffic Impact Analysis for the Goleta Hotel Project, Pinnacle Traffic Engineering, November 2019.

Highway Capacity Manual, Transportation Research Board, 6<sup>th</sup> Edition, 2016.

Traffic, Circulation, and Parking Study for the 6210 Hollister Avenue Project, Associated Transportation Engineers, September 2016.

Trip Generation, Institute of Transportation Engineers, 10th Edition, 2017.

Updated Traffic, Circulation, and Parking Study for the Heritage Ridge Project, Associated Transportation Engineers, January 2016.

### Persons Contacted

Dennis Lammers, City of Goleta  
Jaren Nuzman, TK Consulting, Inc.

## TECHNICAL APPENDIX

### CONTENTS:

LEVEL OF SERVICE DEFINITIONS

CITY OF GOLETA ROADWAY DESIGN CAPACITIES

TRAFFIC COUNT DATA

PROJECT TRIP GENERATION WORKSHEET

CITY OF GOLETA CUMULATIVE PROJECT LIST

LEFT-TURN PHASING CRITERIA & ACCIDENT DATA

INTERSECTION LEVEL OF SERVICE CALCULATION WORKSHEETS

- Reference 1 - Los Carneros Road/Calle Real
- Reference 2 - Los Carneros Road/US 101 NB Ramps
- Reference 3 - Los Carneros Road/US 101 SB Ramps
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- Reference 5 - Los Carneros Road/Hollister Avenue
- Reference 6 - Hollister Avenue/ Los Carneros Way

## **LEVEL OF SERVICE DEFINITIONS**

## LEVEL OF SERVICE DEFINITIONS

"Levels of Service" (LOS) A through F are used to rate roadway and intersection operating conditions, with LOS A indicating very good operations and LOS F indicating poor operations. More complete level of service definitions are:

LOS	Definition
A	Low volumes; primarily free flow operations. Density is low and vehicles can freely maneuver within traffic stream. Drivers can maintain their desired speeds with little or no delay.
B	Stable flow with potential for some restriction of operating speeds due to traffic conditions. Maneuvering is only slightly restricted. Stopped delays are not bothersome and drivers are not subject to appreciable tension.
C	Stable operations, however the ability to maneuver is more restricted by the increase in traffic volumes. Relatively satisfactory operating speeds prevail but adverse signal coordination or longer queues cause delays.
D	Approaching unstable traffic flow where small increases in volume could cause substantial delays. Most drivers are restricted in their ability to maneuver and their selection of travel speeds. Comfort and convenience are low but tolerable.
E	Operations characterized by significant approach delays and average travel speeds of one-half to one-third of free flow speed. Flow is unstable and potential for stoppages of brief duration. High signal density, extensive queuing, or signal progression/timing are the typical causes of delays.
F	Forced flow operations with high approach delays at critical signalized intersections. Speeds are reduced substantially and stoppages may occur for short or long periods of time because of downstream congestion.

## **CITY OF GOLETA ROADWAY DESIGN CAPACITIES**



**Table 1  
Goleta Roadway Classifications**

Classification	Purpose and Design Factors	Design Capacity		LOS C Threshold <sup>1</sup>	
		2 Lane	4 Lane	2 Lane	4 Lane
Primary 1	Roadways designed to serve primarily non-residential development. Roadways would have a minimum of 12-foot wide lanes with shoulders and few curb cuts. Signals would be spaced at 1 mile or more intervals.	19,900	47,760	15,900	38,200
Primary 2	Roadways which serve a high proportion of non-residential development with some residential lots and few or no driveway curb cuts. Lane widths are a minimum of 12 feet with well spaced curb cuts. Signals intervals at a minimum of 1/2 mile.	17,900	42,480	14,300	34,000
Primary 3	Roadways designed to serve non-residential development and residential development. More frequent driveways are acceptable. Potential signal intervals of 1/2-1/4 mile.	15,700	37,680	12,500	30,100
Secondary 1	Roadways designed to primarily serve non-residential development and large lot residential development with well spaced driveways. Roadways would be 2 lanes with infrequent driveways. Signal would generally occur at intersections with primary roads.	11,600	NA	9,300	NA
Secondary 2	Roadways designed to serve residential and non-residential land uses. Roadways would be 2 lanes with close to moderately spaced driveways.	9,100	NA	7,300	NA
Secondary 3	Roadways designed to primarily serve residential with small to medium lots. Roadways are 2 lanes with more frequent driveways.	7,900	NA	6,300	NA

<sup>1</sup> Defined as 80% of Design Capacity.

Source: Santa Barbara County Public Works, Transportation Division.

**TRAFFIC COUNT DATA**

**VOLUME**

Los Carneros Rd Bet. Raytheon Dr &amp; Cremona Dr

Day: Thursday  
Date: 10/10/2019City: Goleta  
Project #: CA19\_2077\_008

DAILY TOTALS					NB	SB	EB	WB	Total
					11,433	12,062	0	0	23,495

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL	
0:00	16	32			48	12:00	224	164			388	
0:15	20	19			39	12:15	208	173			381	
0:30	12	17			29	12:30	194	182			376	
0:45	15	63	12	80	27	12:45	178	804	241	760	419	1564
1:00	12	7			19	13:00	193	270			463	
1:15	7	12			19	13:15	149	224			373	
1:30	3	13			16	13:30	170	196			366	
1:45	9	31	7	39	16	13:45	160	672	188	878	348	1550
2:00	5	4			9	14:00	217	169			386	
2:15	7	4			11	14:15	199	177			376	
2:30	3	4			7	14:30	220	164			384	
2:45	6	21	7	19	13	14:45	172	808	182	692	354	1500
3:00	6	3			9	15:00	224	189			413	
3:15	5	3			8	15:15	237	168			405	
3:30	3	8			11	15:30	268	184			452	
3:45	8	22	10	24	18	15:45	254	983	186	727	440	1710
4:00	5	9			14	16:00	255	156			411	
4:15	5	12			17	16:15	289	169			458	
4:30	5	24			29	16:30	339	159			498	
4:45	8	23	24	69	32	16:45	320	1203	167	651	487	1854
5:00	9	24			33	17:00	437	180			617	
5:15	8	23			31	17:15	417	217			634	
5:30	31	41			72	17:30	300	177			477	
5:45	26	74	78	166	104	17:45	253	1407	188	762	441	2169
6:00	27	67			94	18:00	240	202			442	
6:15	30	70			100	18:15	226	213			439	
6:30	42	93			135	18:30	250	162			412	
6:45	52	151	147	377	199	18:45	205	921	160	737	365	1658
7:00	59	137			196	19:00	179	160			339	
7:15	118	191			309	19:15	128	147			275	
7:30	174	209			383	19:30	116	142			258	
7:45	143	494	312	849	455	19:45	120	543	152	601	272	1144
8:00	112	321			433	20:00	126	137			263	
8:15	121	292			413	20:15	121	145			266	
8:30	110	333			443	20:30	86	129			215	
8:45	118	461	291	1237	409	20:45	71	404	123	534	194	938
9:00	132	272			404	21:00	85	124			209	
9:15	107	210			317	21:15	74	135			209	
9:30	117	154			271	21:30	74	117			191	
9:45	124	480	125	761	249	21:45	66	299	109	485	175	784
10:00	118	111			229	22:00	54	104			158	
10:15	100	129			229	22:15	59	87			146	
10:30	130	134			264	22:30	58	76			134	
10:45	135	483	130	504	265	22:45	67	238	69	336	136	574
11:00	145	140			285	23:00	60	71			131	
11:15	150	125			275	23:15	40	58			98	
11:30	200	118			318	23:30	36	38			74	
11:45	181	676	188	571	369	23:45	36	172	36	203	72	375
<b>TOTALS</b>	<b>2979</b>	<b>4696</b>			<b>7675</b>	<b>TOTALS</b>	<b>8454</b>	<b>7366</b>			<b>15820</b>	
<b>SPLIT %</b>	<b>38.8%</b>	<b>61.2%</b>			<b>32.7%</b>	<b>SPLIT %</b>	<b>53.4%</b>	<b>46.6%</b>			<b>67.3%</b>	

DAILY TOTALS					NB	SB	EB	WB	Total
					11,433	12,062	0	0	23,495

AM Peak Hour	11:30	7:45			7:45	PM Peak Hour	16:30	12:45			16:30
AM Pk Volume	813	1258			1744	PM Pk Volume	1513	931			2236
Pk Hr Factor	0.907	0.944			0.958	Pk Hr Factor	0.866	0.862			0.882
7 - 9 Volume	955	2086			3041	4 - 6 Volume	2610	1413			4023
7 - 9 Peak Hour	7:30	7:45			7:45	4 - 6 Peak Hour	16:30	17:00			16:30
7 - 9 Pk Volume	550	1258			1744	4 - 6 Pk Volume	1513	762			2236
Pk Hr Factor	0.790	0.944			0.958	Pk Hr Factor	0.866	0.878			0.882

# Los Carneros Rd & Calle Real

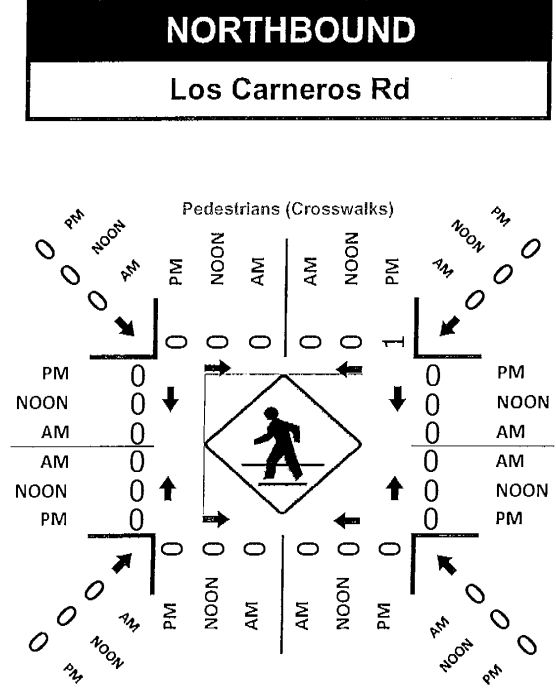
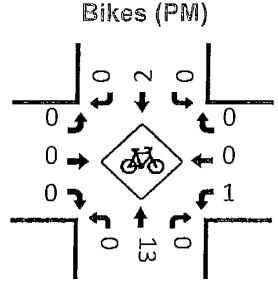
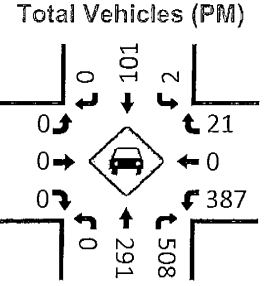
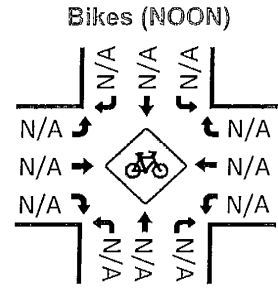
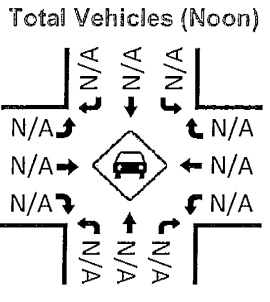
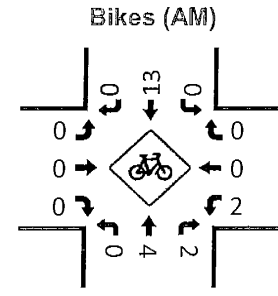
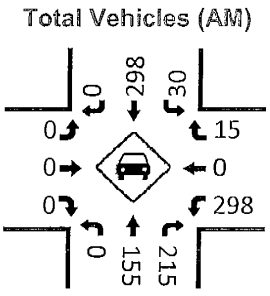
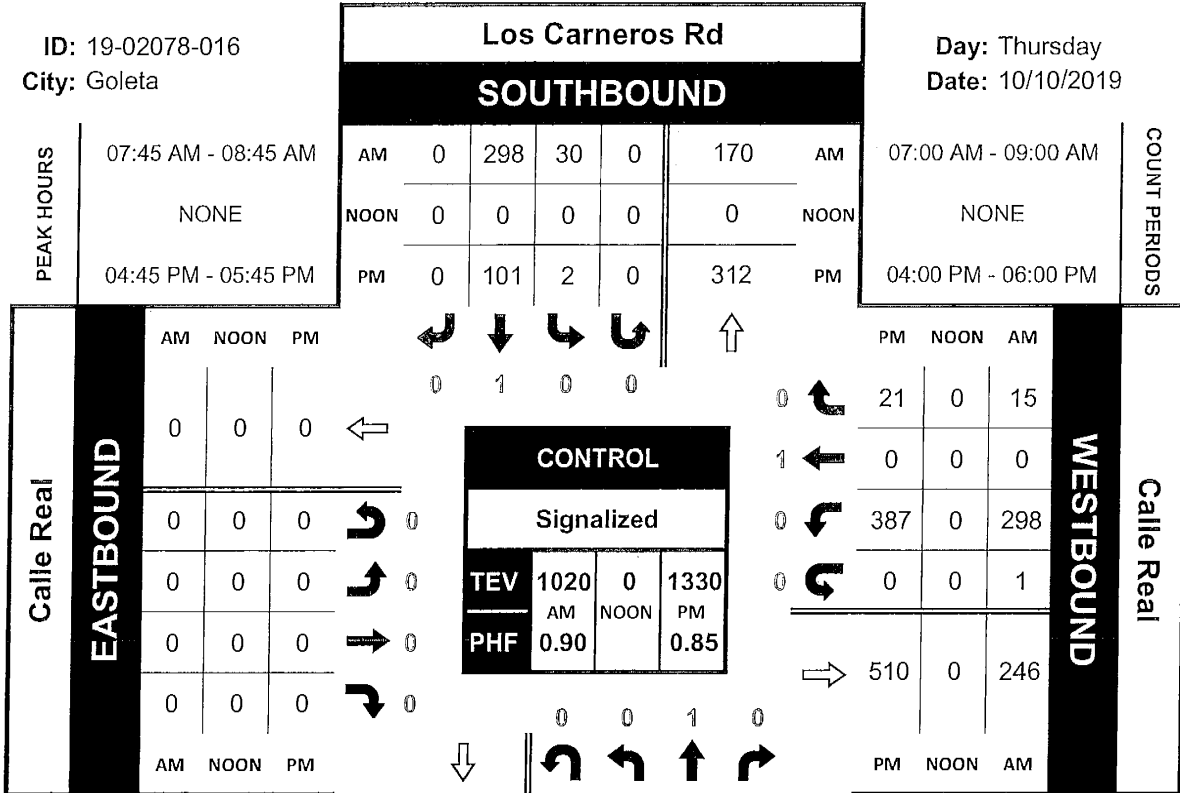
## Peak Hour Turning Movement Count

ID: 19-02078-016

City: Goleta

Day: Thursday

Date: 10/10/2019



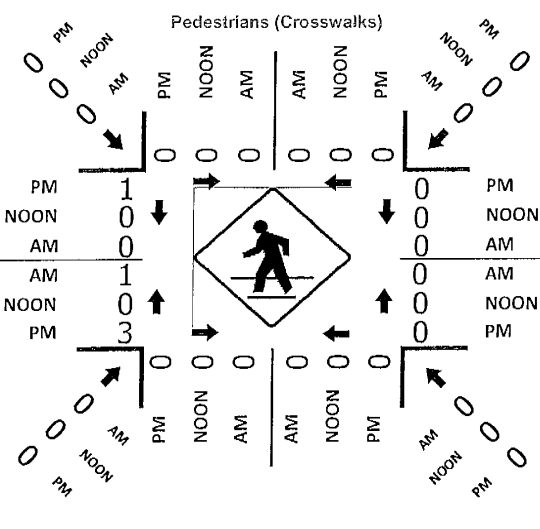
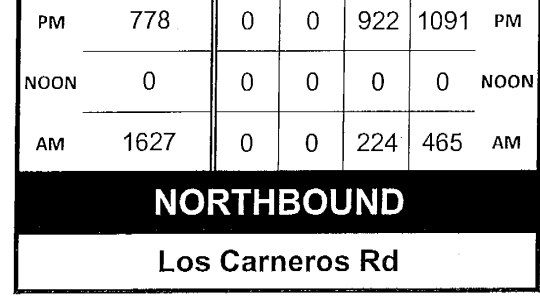
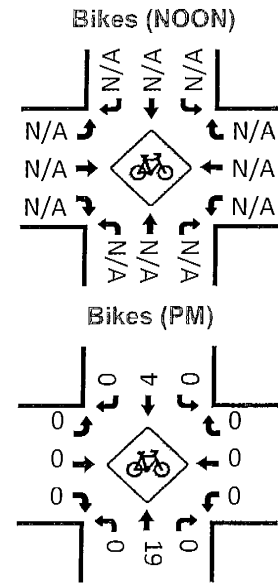
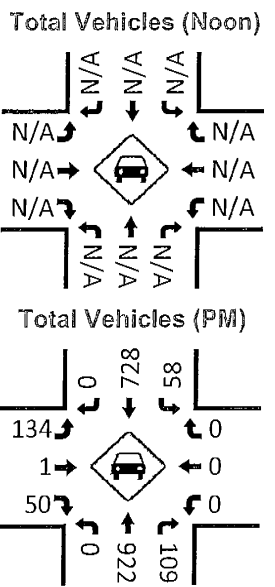
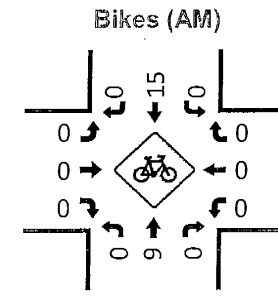
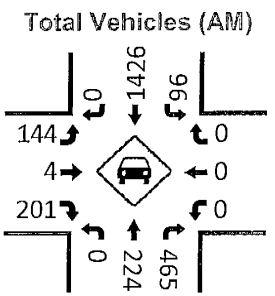
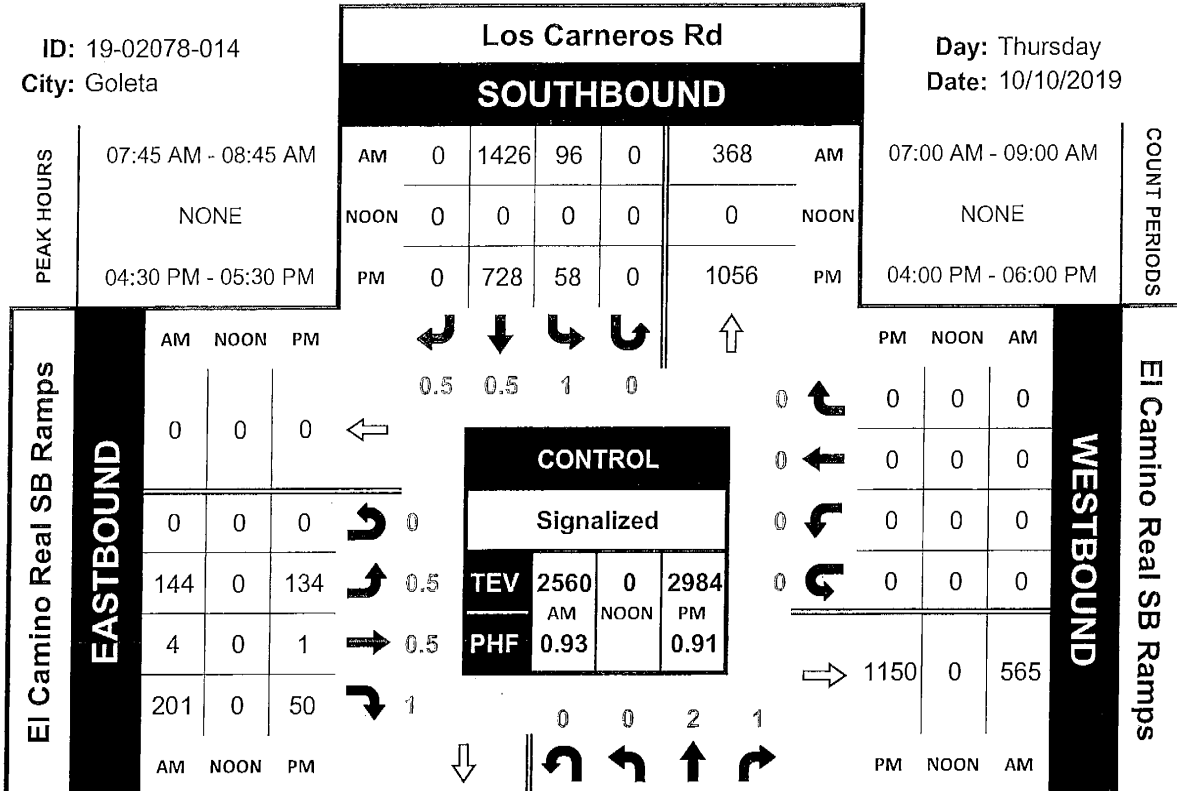


# Los Carneros Rd & El Camino Real SB Ramps

## Peak Hour Turning Movement Count

ID: 19-02078-014  
City: Goleta

Day: Thursday  
Date: 10/10/2019



# Los Carneros Rd & Calle Koral

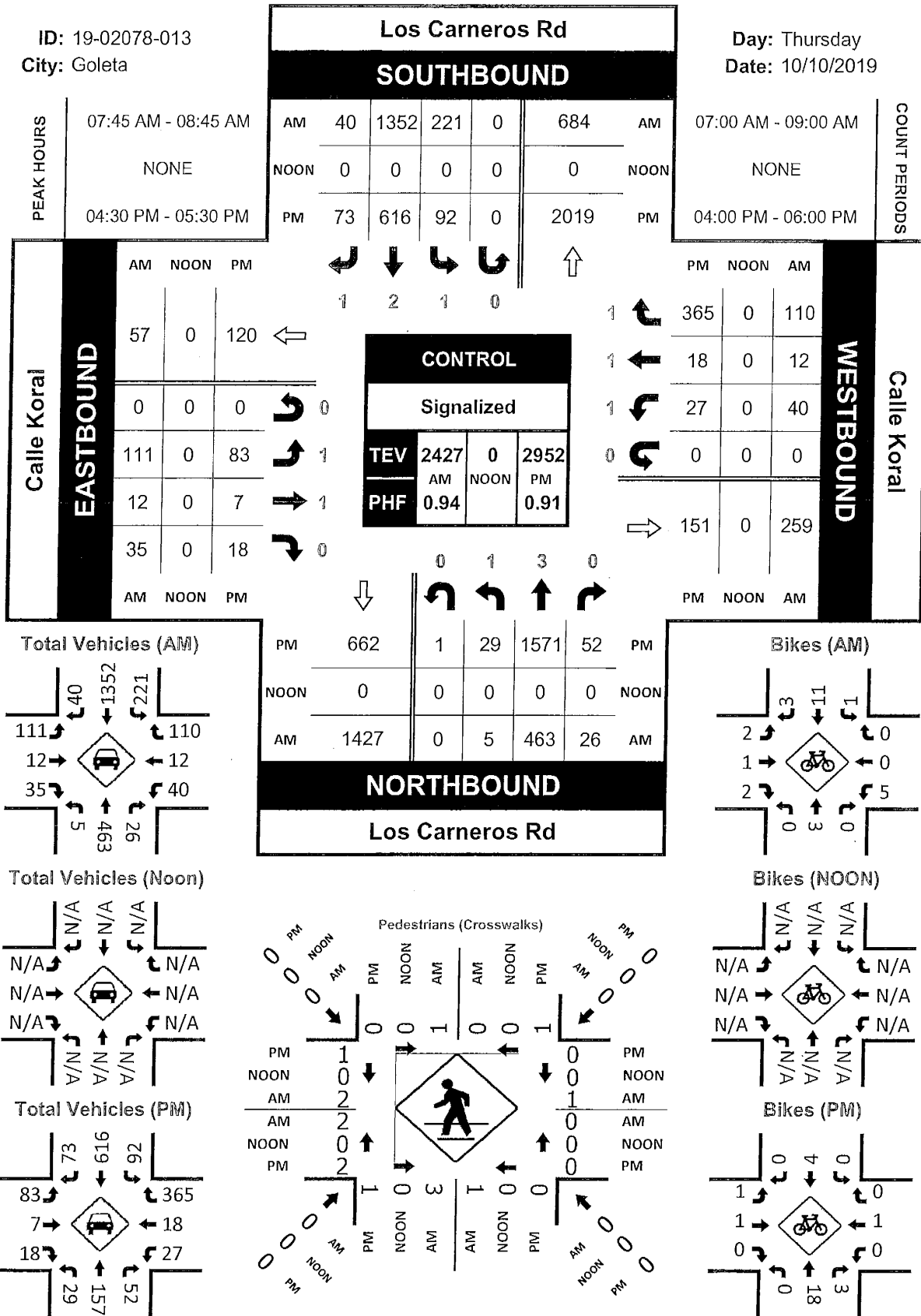
## Peak Hour Turning Movement Count

ID: 19-02078-013

City: Goleta

Day: Thursday

Date: 10/10/2019



# Los Carneros Rd & Hollister Ave/Cross Town Route

## Peak Hour Turning Movement Count

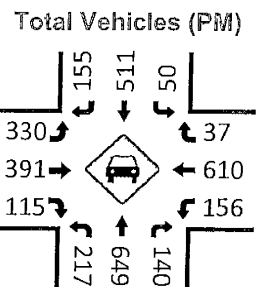
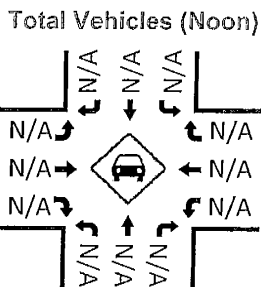
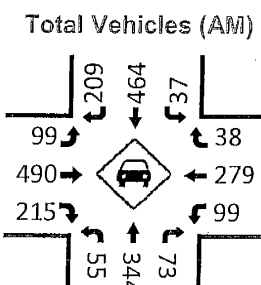
ID: 19-02078-012  
City: Goleta

Day: Thursday  
Date: 10/10/2019

PEAK HOURS		Los Carneros Rd						COUNT PERIODS	
		<b>SOUTHBOUND</b>							
07:45 AM - 08:45 AM NONE 04:45 PM - 05:45 PM	AM	209	464	37	0	481	AM	07:00 AM - 09:00 AM	04:00 PM - 06:00 PM
	NOON	0	0	0	0	0	NOON	NONE	
	PM	155	511	50	0	1016	PM	04:00 PM - 06:00 PM	

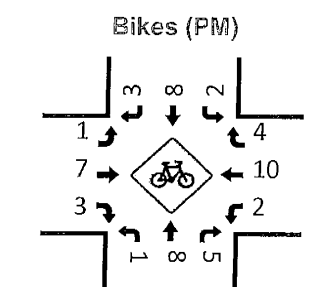
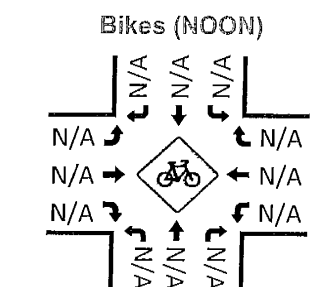
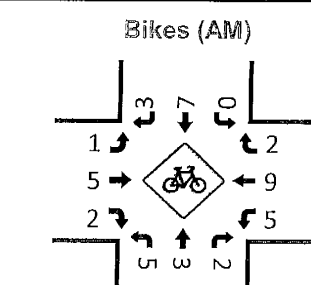
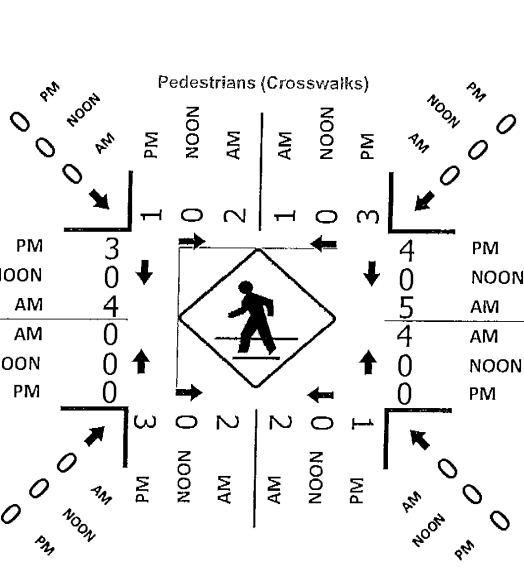
  

Hollister Ave/Cross Town Route		CONTROL		Hollister Ave/Cross Town Route	
<b>EASTBOUND</b>		Signalized		<b>WESTBOUND</b>	
AM	NOON	PM	TEV	NOON	PM
543	0	982	2404	0	3362
0	0	0	AM	NOON	PM
99	0	330	0.91	0.89	
490	0	391			
215	0	115			
AM	NOON	PM			



**NORTHBOUND**

Los Carneros Rd	Hollister Ave/Cross Town Route	Hollister Ave/Cross Town Route	Los Carneros Rd
PM	783	1	217
NOON	0	0	0
AM	779	1	55





**PROJECT TRIP GENERATION WORKSHEET**

Associated Transportation Engineers  
Trip Generation Worksheet

HERITAGE RIDGE UPDATE - TRIP GENERATION WITH AFFORDABLE RATES

Use	Size	ADT		AM PEAK HOUR			PM PEAK HOUR								
		Rate	Trips	Rate	Trips	In %	Trips	Out %	Trips	Out %	Trips				
Market Rate Apartments(a)	228 DU	7.32	1,669	0.65	148	17%	25	83%	123	0.66	150	70%	105	30%	45
Affordable Apartments(b)	63 DU	5.20	328	0.46	29	17%	5	83%	24	0.47	30	70%	21	30%	9
Affordable Senior Apartments(c)	41 DU	2.63	108	0.14	6	35%	2	65%	4	0.18	7	55%	4	45%	3
Public Park(d)	2 AC	50.00	100	6.50	13	50%	7	50%	6	4.50	9	50%	5	50%	4
<b>Totals</b>			<b>2,205</b>		<b>196</b>		<b>39</b>		<b>157</b>		<b>196</b>		<b>135</b>		<b>61</b>

(a) ADT based on ITE rates for Multifamily Housing (Low Rise - ITE #220). AM & PM rates based on local study.  
 (b) Trip generation based on adjusted ITE rates for Multifamily Housing - (Low Rise - ITE #220). Study data shows that affordable units generate 71% of non-affordable units.  
 (c) Trip generation based on adjusted ITE rates for Senior Adult Housing - Attached (ITE #252). Study data shows that affordable units generate 71% of non-affordable units.  
 (d) Trip generation based on SANDAG rates for City Public Park.

**CITY OF GOLETA CUMULATIVE PROJECT LIST**

Cumulative Forecasting  
 Trip Generation Worksheet (#2005801)

CITY OF GOLETA CUMULATIVE PROJECT LIST - FEBRUARY 2021

Cumulative Project	Size	ADT		A.M. PEAK HOUR						P.M. PEAK HOUR					
		Rate	Trips	Rate	Trips	In %	Trips	Out %	Trips	Rate	Trips	In %	Trips	Out %	Trips
1 Cox Communication (a)	-795 SF	-	-44	-	-6	-	-5	-	-1	-	-5	-	0	-	-5
2 Cortona Apartments	176 Units	7.32	1,288	0.46	81	23%	19	77%	62	0.56	99	63%	62	37%	37
3 Beach Hazard Removal(b)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4 PRC 421 Piers(b)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5 Platform Holly Decommission(b)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6 Citrus Village	10 Units	7.32	73	0.46	5	23%	1	77%	4	0.56	6	63%	4	37%	2
7 Winslow Old Town Village(c)	175 Units	-	1,125	-	93	-	27	-	66	-	106	-	63	-	43
8 Cabrillo Business Park(d)	44,924 SF	11.26	506	0.42	19	75%	14	25%	5	0.49	22	15%	3	85%	19
9 Cabrillo Business Park(d)	16,750 SF	11.26	189	0.42	7	75%	5	25%	2	0.49	8	15%	1	85%	7
10 Hollister Village Apartments	27 Units	7.32	198	0.46	12	23%	3	77%	9	0.56	15	63%	9	37%	6
11 130 Robin Hill - Light Industrial	1,414 SF	4.96	7	0.70	1	88%	1	12%	0	0.63	1	13%	0	87%	1
12 Cottage Somera Medical Office Building(e)	20,000 SF	-	615	-	41	-	32	-	9	-	60	-	17	-	43
13 Highway Recycling	1 Yard	-	22	-	5	-	5	-	0	-	5	-	0	-	5
14 Ellwood Mesa Trail Restoration(b)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
15 Ellwood Tree Safety(b)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
16 NRG Battery Storage (h)	NA	NA	10	NA	2	NA	2	NA	0	NA	2	NA	0	NA	2
17 Cabrillo Business Park(d)	23,882 SF	11.26	269	0.42	10	75%	8	25%	2	0.49	12	15%	2	85%	10
18 Cabrillo Business Park(d)	98,780 SF	11.26	1,112	0.42	41	75%	31	25%	10	0.49	48	15%	7	85%	41
19 Kellogg Crossing Self Storage	1,043 Units	-	148	-	8	60%	5	40%	3	0.56	15	47%	7	53%	8
20 Bacara Beach House Relation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
22 Fuel Depot(f)	2,396 SF	-	226	-	13	-	7	-	6	-	13	-	6	-	7
23 6045 Stow Canyon Rd Synagogue(g)	6,936 SF	-	75	-	15	-	8	-	7	-	0	-	0	-	0
24 Log Me In Parcel Map	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
25 Kellogg Auto Parcel Map	4,735 SF	9.74	46	1.16	5	86%	4	14%	1	1.15	5	16%	1	84%	4
26 Ellwood Butterfly Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
27 Dara Road GP Amendment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
28 Shelby(h)	60 Units	-	574	-	45	-	11	-	34	-	61	-	39	-	22
29 Kenwood Village(i)	60 Units	-	397	-	31	-	7	-	24	-	37	-	24	-	13
30 Goleta Battery Storage Facility	NA	NA	10	NA	2	NA	2	NA	0	NA	2	NA	0	NA	2
31 Calle Real Hotel(k)	464 Units	-	1,196	-	90	-	52	-	38	-	94	-	46	-	48
32 Sywest Warehouse	70,594 SF	1.74	123	0.17	12	77%	9	23%	3	0.19	13	27%	4	73%	9
33 Sun Group GP Amendment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
34 GVCH Hollipat Parking Lot	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
35 The Grange	1,339 SF	9.74	13	1.16	2	86%	2	14%	0	1.15	2	16%	0	84%	2
36 GCCH Aquatic Facility	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
37 Verizon Water Tank Antenna	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
38 Coromar Battery Storage	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
39 The Hollister Hotel(l)	NA	NA	-52	NA	-7	NA	-3	NA	-4	NA	-6	NA	-4	NA	-2
40 355 Coromar Distribution Center	54,080 SF	1.74	94	0.17	9	77%	7	23%	2	0.19	10	27%	3	73%	7
41 Seymour Duncan Office	48,002 SF	9.74	468	1.16	56	86%	48	14%	8	1.15	55	16%	9	84%	46
42 Camino Real Repeal Specific Plan	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

- (a) Cox Communication Traffic and Parking Study, ATE, March 2019.
- (b) Temporary work. No significant on-going traffic generation.
- (c) Old Town Village Mixed-Use Project Traffic, Circulation and Parking Study, October 2014.
- (d) Trip generation based on ITE Code #760 (Research & Development).
- (e) Somera Medical Building Environmental Checklist Form and Initial Study, January 2014.
- (f) Fuel Depot Traffic Impact Study, ATE, June 2018.
- (g) Phase I Traffic Analysis for 6045 Stow Canyon Road Project, ATE, November 2018.
- (h) 7400 Cathedral Oaks Road Project Traffic and Circulation Study, ATE, February 2011.
- (i) Kenwood Village Project EIR Transportation and Traffic Study, ATE, 2015.
- (j) Heritage Ridge Residential Project EIR, ATE, 2015.
- (k) Goleta Real Hotel TIA, Pinnacle Traffic Engineering.
- (l) the 5392-5400 Hollister Avenue Traffic Study, ATE, 2019.

City of Goleta Cumulative Projects List (Updated February 25, 2021)

Case #	Project	Address	APN	Land Use	Parcel Size (acres)	Project Description	Planner	Status	Adjacent to creek or tributary?	ESHA Setback Reduction Requested or Approved?
<b>PROJECTS UNDER CONSTRUCTION</b>										
18-093-DPRV-DRB	Cox Communications Building	22 South Fairview Avenue	071-021-001; -044	Commercial/Industrial	2.31	Removal of two buildings, and the construction of a new 6,519 square foot Telecommunications building.	M. Chang	Under Construction	No	N/A
09-140-DP (17-023-DPAM)	Cortona Apartments	6830 Cortona Drive	073-140-016	Residential	8.82	176 residential units.	M. Chang	Under Construction	No	N/A
10-083-LUP, 12-165-LUP, & CDP No. E-02-024-A3	Beach Hazards Removal	N/A	079-200-012, -013, 079-210-059, -069, -013, -014, &, -015,	Visitor Serving/Passive & Active Open Space	N/A	Removal of remnant oil and gas infrastructure hazards along City coastline.	A. Newkirk	Under Construction	No	No
MOU Agreement No. 2018-081	PRC 421 Piers	Pacific Ocean- Intertidal Zone.	079-210-059	Open Space-Active Recreation	192.93	Plug and abandon 2 existing oil wells.	J. Ritterbeck	Plugging Complete, Abandonment Forthcoming	No	TBD
MOU Agreement No. 2018-081	Platform Holly Decommissioning	Pacific Ocean- 2 miles from shore.	N/A	N/A	N/A	Plug and abandon 32 existing oil wells.	J. Ritterbeck	In Progress	No	No
04-226-TM, -DP	Citrus Village	7388 Calle Real	077-490-043	Residential	1.02	10 residential units.	C. Noddings	Under Construction	No	No
14-026-GPA, -RZ, -VTM, -DP	Winslowe (Formerly Old Town Village)	South Kellogg Avenue	071-130-02	Residential and Commercial	12.31	Mixed Use of 175 townhomes with shopkeeper/live work units.	M. Chang	Under Construction	Yes	Yes
19-031-PCR-RV-OSP (Previously 16-164-PCR-OSP)	Cabrillo Business Park, Lot 9	301 Coromar Drive	073-210-027	Office/Light Industrial	3.12	New 44,524-sf building within Cabrillo Business Park.	D. Mimick	Under Construction	No	No
19-120-PCR-RV-OSP (Previously 16-162-PCR-OSP)	Cabrillo Business Park, Lot 6	6765 Navigator Way	073-610-025	Office/Light Industrial	1.27	New 16,750-sf building within Cabrillo Business Park.	D. Mimick	Under Construction	No	No
19-123-PCR-RV-OSP (Previously 16-163-PCR-OSP)	Cabrillo Business Park, Lot 7	6759 Navigator Way	073-610-026	Office/ Light Industrial	2.11	New 31,584-sf building within Cabrillo Business Park.	D. Mimick	Under Construction	No	No
18-152-GPA, -RZ, LLA, -DPRV	Hollister Village Apartments	7000 Hollister Avenue	073-030-	Residential	1.84	27 Apartments and Park	M. Chang	Under Construction	No	No
15-107-DPRV-DRB	Site Improvements	130 Robin Hill Road	073-050-015	Industrial (Business Park)	3.00	768-sf elevator addition, and 314-sf addition to rear of building, plus a 1,100-sf new building.	B. Hiefield	Under Construction	No	No
12-091-DP	Cottage Medical Office Building	454 S. Patterson Avenue	065-090-013	Commercial	8.00	20,000 sf net new medical/dental office building.	B. Hiefield	Approved (Time Extension approved 1/13/20- 19-013-TEX)	No	No
09-133-DP; 15-177-LUP; 18-126-SCD-LUP; 19-111-PCR	Security Paving (former Highway Recycling)	909 South Kellogg Avenue	071-190-034	Industrial	11.71	Concrete and asphalt recycling facility with temporary and permanent equipment. Includes creek/SPA restoration, fencing, landscaping, trash enclosure, retaining wall, and drainage improvements.	L. Prasse/C. Noddings	Under Construction	Yes	Approved.

**City of Goleta Cumulative Projects List (Updated February 25, 2021)**

Case #	Project	Address	APN	Land Use	Parcel Size (acres)	Project Description	Planner	Status	Adjacent to creek or tributary?	ESHA Setback Reduction Requested or Approved?
<b>APPROVED PROJECTS (NOT CONSTRUCTED)</b>										
13-039-CUP	Ellwood Mesa Coastal Trails and Habitat Restoration Project	NA	079-210-024, -069, -015, -014, -013, -072, -071, -70	Open Space- Passive Recreation	252.00	Improve 7.1 miles of trails, improve 3 drainage crossings, improve 2 beach access points, and 13 acres of habitat restoration.	J. Ritterbeck	Approved by Coastal Commission	Yes	No. (Trails & Habitat Restoration allowed in ESHA)
17-089-EMP	Ellwood Tree Safety Emergency Permit and Ellwood North Restoration	N/A	079-210-069	Open Space- Passive Recreation	136.60	Emergency Tree Removal for safety reasons by habitat enhancements in monarch butterfly aggregation sites.	A. Wells	Approved by Coastal Commission	Yes	No
15-145-CUP	NRG Battery Storage	30 Las Armas Road	079-210-003	Utility	1.50	Install 1 new 500KW battery storage system.	A. Wells	Approved (Waiting for approval by SCE)	No	No
16-161-PCR-OSP	Cabrillo Business Park, Lot 5	6789 Navigator Way	073-610-024	Office/Light Industrial	1.93	New 23,882-sf building within Cabrillo Business Park.	D. Mimick	Approved	No	No
18-118-PCR-OSP	Pacific Beverage at Cabrillo Business Park	355 Coromar Drive	073-610-036	Industrial	7.60	98,780 sf warehouse/office building.	D. Mimick	Approved	No	No
19-032-DPAM	Kellogg Crossing Self Storage (Formerly Schwann Self Storage)	10 South Kellogg Avenue	071-090-082	Industrial	2.06	New 136,067 SF self storage facility containing 1,043 units.	B. McNulty/M. Chang	Approved	Yes	Yes
16-002-DPRV	Bacara Beach House Relocation	8301 Hollister Avenue	079-200-013, 079-200-012	Resort / Visitor Serving	39.17	Demolition of existing beach house and relocating/constructing new beach house.	M. Chang	Approved by the City, pending California Coastal Commission action	No	Yes
15-063-DP-DRB	Fuel Depot	180 N. Fairview Avenue	069-110-054	Commercial	0.28	2,396 sf convenience store. No changes to existing fueling stations or canopy.	D. Mimick	Approved	No	No
18-031-CUPAM,-DP-DRB; 20-0003-SCD	New 7,390-sf Synagogue	6045 Stow Canyon Road	077-140-044	Design Residential	3.29	New 7,390 SF Synagogue and 841 SF storage building, with sanctuary, event hall, office spaces, and kitchen. Revised parking, landscaping, and hardscaping also included.	C. Noddings	Approved	Yes	No
18-032-TPM-DP	Log Me In Parcel Map	7414 and 7418 Hollister Avenue	079-210-065	Industrial	12.87	Subdivision of existing lot into 3 separate lots, each containing 1 existing building, and 3 new Development Plans for each new lot.	K. Allen	Approved	No	No



**City of Goleta Cumulative Projects List (Updated February 25, 2021)**

Case #	Project	Address	APN	Land Use	Parcel Size (acres)	Project Description	Planner	Status	Adjacent to creek or tributary?	ESHA Setback Reduction Requested or Approved?
19-072-TPM, 19-073-DP, 19-074-DP, and 19-075-DP	Kellogg Auto Center Parcel Maps and Development Plans	425 South Kellogg Avenue, 475 South Kellogg Avenue, 495 South Kellogg Avenue, & 5611 Hollister Avenue	071-140-067, 071-140-068, 071-140-002	Commercial	7.82	Façade improvements, additions, and new structures for Toyota, Honda, and Nissan dealerships. Subdivide into 3 lots for each dealership and create development plans for each new lot.	B. Hiefield	Pending - CEQA review and Decisions	Yes	No
13-085-Plan	Ellwood Butterfly Habitat Management Plan Implementation	N/A	079-210-013, -014, -015, -019, -024, -070, -071, & -072	Open Space-Passive Recreation	13.66	Implement management program to restore Monarch aggregation sites, enhance biodiversity, and maintain public access, and other management plan activities.	A. Wells	Approved by City, Pending-California Coastal Commission approval.	Yes	No
20-0001-GPA	General Plan Amendment Initiation	625 Dara Road	069-373-055 to 062; 069-373-010 to -013 and 069-373-063	Single Family R-SF	4.23 Acres	Initiation of a General Plan Amendment to Change Land Use from Single-Family Residential (R-SF) to Multi-Family Residential (R-MD)	M. Chang	Initiation Approved	No	No
<b>PENDING PROJECTS (Complete Applications)</b>										
05-154-GPA, -RZ, -VTM	Shelby	7400 Cathedral Oaks Road	077-530-019	Residential	15.8 (gross); 14.88 (net)	60 residential units.	L. Prasse	Pending/On Hold - due to water availability.	Yes	Requested
08-205-GPA, -RZ, -VTM	Kenwood Village	Calle Real w/o Calaveras Avenue	077-130-066, -019; 077-141-049	Residential	10.00	60 residential units.	K. Allen	Pending/On Hold - due to water availability.	Yes	Requested
19-0201-DP; 19-0202-DPAM; 19-0202-CUP; 19-0001-SUB	Goleta Battery Energy Storage Facility	6868 & 6864 Cortona Drive	073-140-027	Utility	5.88 gross	New 60 megawatt (240 mega watt hour) battery energy storage facility; lot split into two lots	K. Allen	Pending - Environmental Review.	No	N/a
14-049-, -VTM, -DR, -CUP	Heritage Ridge	North of Calle Koral and West of Los Carneros	073-060-031 thru -043	Residential	16.20	228 residential apartments and 132 senior apartments.	M. Chang	Pending - Waiting for updated plans.	No	Requested
16-097-DP-DRB	Calle Real Hotel	5955 Calle Real	069-110-018	Commercial	1.98	132-room 3-story hotel.	B. Hiefield	Pending - Environmental Review.	No	No
17-121-DP-DRB	Sywest	907 South Kellogg Avenue	071-190-035	Industrial	11.71	70,594 sq ft high cube industrial building.	B. Hiefield	Pending selection of EIR Consultant - On hold per applicant.	Yes	Requested
19-0001-GPA; 20-0002-GPA	Sun Group General Plan Amendment Initiation	5631 Calle Real	069-160-056; -057	Public/Quasi-Public/Commercial	0.10	Change designated Land Use and Zoning from Public/Quasi-Public (P-Op) to Community Commercial (CC).	C. Noddings	Pending - Planning Commission recommended approval on September 14, 2020.	No	No

**City of Goleta Cumulative Projects List (Updated February 25, 2021)**

Case #	Project	Address	APN	Land Use	Parcel Size (acres)	Project Description	Planner	Status	Adjacent to creek or tributary?	ESHA Setback Reduction Requested or Approved?
19-080-DPAM	GVCH DPAM for Permanent Hollipat Parking Lot	334 S. Patterson Ave.	065-090-028	Office, Residential	9.03	Approve the existing, temporary parking lot for permanent use.	C. Noddings	Pending - CEQA review and Decisions	Yes	No
19-0203-DP	The Grange	250, 260, 270 Storke Road	073-100-032	Community Commercial	2.28	Demolition of existing pumphouse/equipment building and construction of a 1,339 SF commercial building. The addition of two new elevators to serve 250 and 270 Storke Road, as well as facade improvements.	M. Chang/B. McNulty	Pending - City issued Incomplete Letter on 1/15/2020. Waiting on applicant's resubmittal.	No	No
20-0002-DP	GVCH DPRV New Rehabilitation Pool/Center	351 S. Patterson Ave	065-090-022	Office	8.40	Interior remodel of the main hospital building and the construction of an aquatic facility in the southern parking lot.	C. Noddings	Pending - CEQA review and Decisions	No	No
<b>PENDING PROJECTS (Incomplete Applications)</b>										
19-115-CUP	Verizon Antenna Faux Water Tank	Fairview Avenue and Hollister Avenue	071-111-044	Commercial	481SF Area	42' Faux Water Tank for Verizon Wireless Antenna	M. Chang	Pending - Waiting on applicant to submit revised plans	No	No
19-0201-CUP	Battery Energy Storage Facility	82 Coromar Drive	073-150-012	Industrial	4.33	Conditional Use Permit for a 10- megawatt (MW)/40-megawatt hour (MWh) battery-based energy storage system within a 14,400SF portion of an existing 57,600SF building addressed as 80 Coromar Drive.	C. Noddings	Pending - City issued Incomplete Letter on 12/12/2019. Waiting on applicant's resubmittal.	No	No
18-001-RZ-DP-DRB	The Hollister: Hotel and Apartments	5392 and 5400 Hollister Avenue	071-101-002, 071-101-015	Residential / Commercial	0.92	11, 556 sf hotel, cafe, and 8 residential units.	M. Chang/K. Allen	Pending- City issued Incomplete Letter on 1.29.18	No	No
20-0001-PCR	Distribution/Delivery Facility	355 Coromar Drive	073-610-036	Industrial	7.60	Application for a Project Clearance within the Cabrillo Business Park Specific Plan area for a new 54,080 square foot distribution/delivery facility.	D. Mimick	Pending- City issued Incomplete Letter on 12.17.20	No	No
20-0003-TPM-DP-DPAM	Seymour Duncan Office and R and D Buildings	5385 Hollister Avenue	071-140-075	Office and Institutional	7.76	New parcel map with two proposed buildings. (1) 98,780 sf warehouse/office building; and (2) 98,780 sf warehouse/office building.	D. Mimick	Pending- City issued Incomplete Letter on 11.12.20	No	No



**City of Goleta Cumulative Projects List (Updated February 25, 2021)**

Case #	Project	Address	APN	Land Use	Parcel Size (acres)	Project Description	Planner	Status	Adjacent to creek or tributary?	ESHA Setback Reduction Requested or Approved?
20-0001-SP	Camino Real Marketplace Specific Plan Initiation	7060 Marketplace Drive	073-440-013	Regional Commercial and Recreation	83.00	Repeal of existing Camino Real Marketplace Specific Plan.	D. Mimick	Pending- City issued Incomplete Letter on 6.18.20	No	No

**LEFT-TURN PHASING CRITERIA & ACCIDENT DATA**

#### 4.3.5 Prohibition of Left-Turns as a Phasing Option

Prohibition of left turns on an approach is an option that has been implemented in some cases to maintain mobility at an intersection. In this case, a supplemental sign may be provided that indicates “no left turn”. In some cases, these have been applied only during certain times of day, when gaps in traffic are unavailable and operation of permitted phasing may be unsafe. Figure 4-10 is an example from Toronto, Ontario, that prohibits left turns during the morning and evening periods.

Figure 4-10 Prohibited left turns by time of day



In general, the operational mode used for one left-turn movement on a road is also typically used for the other (opposing) left-turn movement. For example, if one left-turn movement is permissive, the opposing left turn is also permissive. However, this agreement is not required and the decision of mode should be movement-specific based on factors such as sight distance, volumes, number of turning lanes, number of opposing lanes, and leading vs lagging left turn operation.

#### 4.3.6 Guidelines for Selecting Left-Turn Phasing

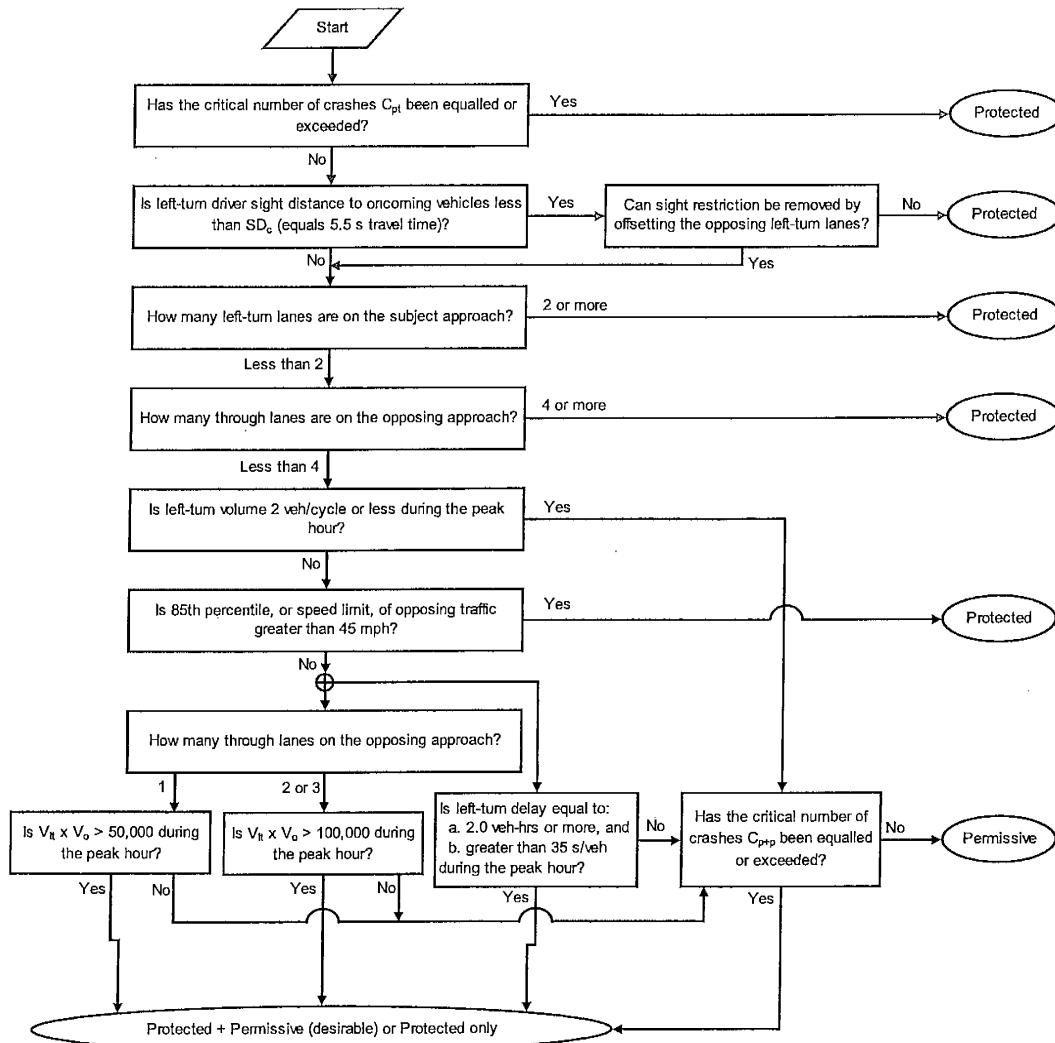
A variety of guidelines exist that have been developed to indicate conditions where the benefits of a left-turn phase typically outweigh its adverse impact to intersection operation. Many of these guidelines indicate that a left-turn phase can be justified based on consideration of several factors that ultimately tie back to the operational or safety benefits derived. These factors include:

- Left-turn and opposing through volumes
- Number of opposing through lanes
- Cycle length
- Speed of opposing traffic
- Sight distance
- Crash history

The flowchart shown in Figure 4-11 can be used to assist in the determination of whether a left-turn phase is needed and whether the operational mode should be protected or protected-permissive.

These guidelines were derived from a variety of sources (8;9). Application of the flowchart requires the separate evaluation of each left-turn movement on the subject road.

Figure 4-11 Guidelines for determining the potential need for a left-turn phase



Number of Left-turn Movements on Subject Road	Period During Which Crashes are Considered (years)	Critical Left-Turn-Related Crash Count	
		When Considering Protected-only, $C_{pt}$ (crashes/period)	When Considering Prot.+Perm, $C_{ptp}$ (crashes/period)
One	1	6	4
One	2	11	6
One	3	14	7
Both	1	11	6
Both	2	18	9
Both	3	26	13

Oncoming Traffic Speed Limit (mph)	Minimum Sight Distance to Oncoming Vehicles, $SD_c$ (ft)
25	200
30	240
35	280
40	320
45	360
50	400
55	440
60	480

**Variables**

$V_{lt}$  = left-turn volume on the subject approach, veh/h

$V_o$  = through plus right-turn volume on the approach opposing the subject left-turn movement, veh/h

Source: Adapted from (Kell and Fullerton, 1998; Orcutt, 1993; Traffic Engineering Manual, 1999).

**City of Goleta  
Traffic Engineering Department**

**From 1/1/2015 to 12/31/2019**

**Total Collisions: 15**

**Injury Collisions: 8**

**Fatal Collisions: 0**

**Collision Summary Report**

**3/25/21**

**LOS CARNEROS RD & CALLE KORAL**

**Page 1 of 4**

15-906	1/17/2015	21:47	Saturday	LOS CARNEROS RD CALLE KORAL	0'	Direction: Not State	Dark - Street Light	Clear	Pty at Fault:1
Party 1	Driver	Hit Object	Fixed Object	Unsafe Lane Change	21658A	Hit & Run: No	Property Damage Only	# Inj: 0	# Killed: 0
Veh Type:	Passenger Car		South	Passing Other Vehicle		Age: 59	Lap/Shoulder Harness Used	Cell Phone Not In Use	
Party 2	Driver		Sobriety:	Proceeding Straight		Age: 17			
Veh Type:	Passenger Car		Sobriety:	Assoc Factor: None Apparent			Lap/Shoulder Harness Used	Cell Phone Not In Use	
15-6557	4/29/2015	06:15	Wednesday	LOS CARNEROS RD CALLE KORAL	0'	Direction: Not State	Dusk - Dawn	Clear	Pty at Fault:1
Party 1	Driver			Traffic Signals and Signs	21453A	Hit & Run: No	Property Damage Only	# Inj: 0	# Killed: 0
Veh Type:	Passenger Car			Proceeding Straight		Age: 31	Lap/Shoulder Harness Used	Cell Phone Not In Use	
Party 2	Driver			Assoc Factor: Other		Age: 20			
Veh Type:	Passenger Car			Making Left Turn			Lap/Shoulder Harness Used	Cell Phone Not In Use	
15-10803	7/13/2015	15:43	Monday	CALLE KORAL LOS CARNEROS RD	29'	Direction: East	Daylight	Clear	Pty at Fault:1
Party 1	Driver			Unsafe Speed	22350	Hit & Run: No	Property Damage Only	# Inj: 0	# Killed: 0
Veh Type:	Passenger Car			Proceeding Straight		Age: 56	Lap/Shoulder Harness Used	Cell Phone Not In Use	
Party 2	Driver			Assoc Factor: None Apparent		Age: 42			
Veh Type:	Passenger Car			Stopped In Road			Lap/Shoulder Harness Used	Cell Phone Not In Use	
16-8256	6/16/2016	14:01	Thursday	LOS CARNEROS RD CALLE KORAL	68'	Direction: North	Daylight	Cloudy	Pty at Fault:1
Party 1	Other			Other Hazardous Movement	21658A	Hit & Run: No	Complaint of Pain	# Inj: 2	# Killed: 0
Veh Type:	Passenger Car			Changing Lanes		Age:			
Party 2	Driver			Assoc Factor: Uninvolved Vehicle		Age: 19			
Veh Type:	Passenger Car			Proceeding Straight			Lap/Shoulder Harness Used	Cell Phone Not In Use	
Party 3	Driver			Assoc Factor: None Apparent		Age: 19			
Veh Type:	Passenger Car			Proceeding Straight			Lap/Shoulder Harness Used	Cell Phone Not In Use	
				Assoc Factor: None Apparent					

**LOS CARNEROS RD & CALLE KORAL**

17-4890	4/6/2017	19:55	Thursday	LOS CARNEROS RD CALLE KORAL	0'	Direction: Not State	Dark - Street Light	Clear	Pty at Fault:1
Party 1	Driver	Head-On	Other Motor Vehicle	Auto R/W Violation	21453C	Hit & Run: No	Other Visible Injury	# Inj: 1	# Killed: 0
Veh Type: Passenger Car	South		Proceeding Straight		Male	Age: 20	Cell Phone Not In Use		
Party 2	Driver	Sobriety: HNBD	Proceeding Straight	Assoc Factor: None Apparent	Lap/Shoulder Harness Used				
Veh Type: Passenger Car	North		Proceeding Straight		Male	Age: 25	Cell Phone Not In Use		
Party 3	Driver	Sobriety: HNBD	Proceeding Straight	Assoc Factor: None Apparent	Lap/Shoulder Harness Used				
Veh Type: Passenger Car	North		Proceeding Straight		Male	Age: 20	Cell Phone Not In Use		
17-9480	6/20/2017	16:44	Tuesday	LOS CARNEROS RD CALLE KORAL	60'	Direction: North	Daylight	Clear	Pty at Fault:1
Party 1	Driver	Rear-End	Other Motor Vehicle	Unsafe Starting or Backing	22106	Hit & Run: No	Property Damage Only	# Inj: 0	# Killed: 0
Veh Type: Pickup Truck	South		Proceeding Straight		Male	Age: 27	Cell Phone Not In Use		
Party 2	Driver	Sobriety: HNBD	Stopped In Road	Assoc Factor: None Apparent	Lap/Shoulder Harness Used				
Veh Type: Pickup Truck	South		Stopped In Road		Male	Age: 32	Cell Phone Not In Use		
18-3832	3/16/2018	15:45	Friday	LOS CARNEROS RD CALLE KORAL	0'	Direction: Not State	Daylight	Raining	Pty at Fault:1
Party 1	Driver	Rear-End	Other Motor Vehicle	Impeding Traffic	22400A	Hit & Run: No	Complaint of Pain	# Inj: 1	# Killed: 0
Veh Type: Passenger Car	South		Slowing/Stopping		Female	Age: 21	Cell Phone Not In Use		
Party 2	Driver	Sobriety: HNBD	Proceeding Straight	Assoc Factor: None Apparent	Lap/Shoulder Harness Used				
Veh Type: Passenger Car	South		Proceeding Straight		Female	Age: 39	Cell Phone Not In Use		
18-4574	4/1/2018	08:27	Sunday	LOS CARNEROS RD CALLE KORAL	0'	Direction: Not State	Daylight	Cloudy	Pty at Fault:1
Party 1	Driver	Broadside	Other Motor Vehicle	Traffic Signals and Signs	21453A	Hit & Run: No	Complaint of Pain	# Inj: 1	# Killed: 0
Veh Type: Passenger Car	North		Proceeding Straight		Female	Age: 24	Cell Phone Not In Use		
Party 2	Driver	Sobriety: HNBD	Proceeding Straight	Assoc Factor: None Apparent	Lap/Shoulder Harness Used				
Veh Type: Passenger Car	East		Proceeding Straight		Male	Age: 23	Cell Phone Not In Use		
18-4871	4/5/2018	17:40	Thursday	LOS CARNEROS RD CALLE KORAL	30'	Direction: South	Daylight	Clear	Pty at Fault:1
Party 1	Driver	Rear-End	Other Motor Vehicle	Unsafe Speed	22350	Hit & Run: No	Property Damage Only	# Inj: 0	# Killed: 0
Veh Type: Passenger Car	North		Proceeding Straight		Female	Age: 20	Cell Phone Not In Use		
Party 2	Driver	Sobriety: HNBD	Slowing/Stopping	Assoc Factor: None Apparent	Lap/Shoulder Harness Used				
Veh Type: Passenger Car	North		Slowing/Stopping		Female	Age: 35	Cell Phone Not In Use		
18-16380	11/28/2018	12:05	Wednesday	LOS CARNEROS RD CALLE KORAL	31'	Direction: North	Daylight	Cloudy	Pty at Fault:1
Party 1	Driver	Rear-End	Other Motor Vehicle	Unsafe Speed	22350	Hit & Run: No	Property Damage Only	# Inj: 0	# Killed: 0
Veh Type: Passenger Car	South		Proceeding Straight		Male	Age: 78	Cell Phone Not In Use		
Party 2	Driver	Sobriety: HNBD	Stopped In Road	Assoc Factor: None Apparent	Lap/Shoulder Harness Used				
Veh Type: Passenger Car	South		Stopped In Road		Male	Age: 64	Cell Phone Not In Use		

**LOS CARNEROS RD & CALLE KORAL**

18-17236	12/17/2018	09:01	Monday	LOS CARNEROS RD CALLE KORAL	Other Motor Vehicle	Unsafe Speed	0'	Direction: Not State	Daylight	Raining	Pty at Fault:1
Party 1 Driver					South	Slowing/Stopping	22350	Hit & Run: No	Complaint of Pain		
Veh Type: Passenger Car					Sobriety: HNBD	Assoc Factor: None Apparent	Male	Age: 51	Cell Phone Not In Use		# Inj: 1 # Killed: 0
Party 2 Driver					South	Stopped In Road					
Veh Type: Passenger Car					Sobriety: HNBD	Assoc Factor: None Apparent	Male	Age: 66	Cell Phone Not In Use		
18-17249	12/17/2018	14:14	Monday	LOS CARNEROS RD CALLE KORAL	Other Motor Vehicle	Unsafe Speed	0'	Direction: Not State	Daylight	Clear	Pty at Fault:1
Party 1 Driver					South	Proceeding Straight	22350	Hit & Run: No	Complaint of Pain		
Veh Type: Passenger Car					Sobriety: HNBD	Assoc Factor: None Apparent	Male	Age: 20	Cell Phone Not In Use		# Inj: 1 # Killed: 0
Party 2 Driver					South	Stopped In Road					
Veh Type: Passenger Car					Sobriety: HNBD	Assoc Factor: None Apparent	Male	Age: 41	Cell Phone Not In Use		
Party 3 Driver					South	Stopped In Road					
Veh Type: Passenger Car					Sobriety: HNBD	Assoc Factor: None Apparent	Male	Age: 36	Cell Phone Not In Use		
19-463	1/12/2019	20:42	Saturday	LOS CARNEROS RD CALLE KORAL	Other Motor Vehicle	Traffic Signals and Signs	0'	Direction: Not State	Dark - Street Light	Clear	Pty at Fault:1
Party 1 Driver					North	Proceeding Straight	21453A	Hit & Run: No	Other Visible Injury		
Veh Type: Passenger Car					Sobriety: HNBD	Assoc Factor: None Apparent	Male	Age: 39	Cell Phone Not In Use		# Inj: 1 # Killed: 0
Party 2 Driver					East	Proceeding Straight					
Veh Type: Passenger Car					Sobriety: HNBD	Assoc Factor: None Apparent	Male	Age: 25	Cell Phone Not In Use		
19-3909	3/29/2019	12:44	Friday	LOS CARNEROS RD CALLE KORAL	Other Motor Vehicle	Unsafe Speed	22'	Direction: North	Daylight	Clear	Pty at Fault:1
Party 1 Driver					South	Proceeding Straight	22350	Hit & Run: No	Complaint of Pain		
Veh Type: Passenger Car					Sobriety: HNBD	Assoc Factor: None Apparent	Female	Age: 22	Cell Phone Not In Use		# Inj: 1 # Killed: 0
Party 2 Driver					South	Stopped In Road					
Veh Type: Passenger Car					Sobriety: HNBD	Assoc Factor: None Apparent	Female	Age: 23	Cell Phone Not In Use		
19-8421	7/3/2019	22:52	Wednesday	LOS CARNEROS RD CALLE KORAL	Other Motor Vehicle	Traffic Signals and Signs	0'	Direction: Not State	Dark - Street Light	Clear	Pty at Fault:1
Party 1 Driver					North	Proceeding Straight	21453A	Hit & Run: No	Property Damage Only		
Veh Type: Passenger Car					Sobriety: HNBD	Assoc Factor: None Apparent	Female	Age: 21	Cell Phone Not In Use		# Inj: 0 # Killed: 0
Party 2 Driver					South	Making Left Turn					
Veh Type: Passenger Car					Sobriety: HNBD	Assoc Factor: None Apparent	Female	Age: 22	Cell Phone Not In Use		
						Assoc Factor: None Apparent			Cell Phone Not In Use		

Settings for Query:

Street: LOS CARNEROS RD  
Cross Street: CALLE KORAL  
Intersection Related: True  
Sorted By: Date and Time



## **INTERSECTION LEVEL OF SERVICE CALCULATION WORKSHEETS**

- Reference 1 - Los Carneros Road/Calle Real**
- Reference 2 - Los Carneros Road/US 101 NB Ramps**
- Reference 3 - Los Carneros Road/US 101 SB Ramps**
- Reference 4 - Los Carneros Road/Calle Koral**
- Reference 5 - Los Carneros Road/Hollister Avenue**
- Reference 6 - Hollister Avenue/ Los Carneros Way**

# HCS7 Roundabouts Report

## General Information

## Site Information

Analyst	DLD		Intersection	LOS CARNEROS/CALLE REAL
Agency or Co.	ATE		E/W Street Name	CALLE REAL
Date Performed	3/22/2021		N/S Street Name	LOS CARNEROS
Analysis Year			Analysis Time Period (hrs)	0.25
Time Analyzed	AM PEAK HOUR		Peak Hour Factor	0.92
Project Description	EXISTING CONDITIONS		Jurisdiction	CITY OF GOLETA

## Volume Adjustments and Site Characteristics

Approach	EB				WB				NB				SB			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Movement																
Number of Lanes (N)	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
Lane Assignment							LTR				LTR				LTR	
Volume (V), veh/h					0	301	0	15	8	0	157	216	0	30	300	0
Percent Heavy Vehicles, %					3	3	3	3	3	3	3	3	3	3	3	3
Flow Rate (v <sub>PCE</sub> ), pc/h					0	337	0	17	9	0	176	242	0	34	336	0
Right-Turn Bypass	None				None				None				None			
Conflicting Lanes					1				1				1			
Pedestrians Crossing, p/h					0				0				0			

## Critical and Follow-Up Headway Adjustment

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Critical Headway (s)												
Follow-Up Headway (s)												

## Flow Computations, Capacity and v/c Ratios

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Entry Flow (v <sub>e</sub> ), pc/h												
Entry Volume, veh/h												
Circulating Flow (v <sub>c</sub> ), pc/h	716			185			34			346		
Exiting Flow (v <sub>ex</sub> ), pc/h	276			0			193			682		
Capacity (c <sub>PCE</sub> ), pc/h												
Capacity (c), veh/h												
v/c Ratio (x)												

## Delay and Level of Service

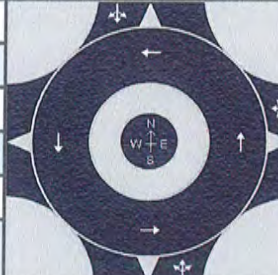
Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Lane Control Delay (d), s/veh												
Lane LOS												
95% Queue, veh												
Approach Delay, s/veh				6.2			5.7			8.1		
Approach LOS				A			A			A		
Intersection Delay, s/veh   LOS	6.6						A					



# HCS7 Roundabouts Report

## General Information

## Site Information

Analyst	DLD		Intersection	LOS CARNEROS/CALLE REAL
Agency or Co.	ATE		E/W Street Name	CALLE REAL
Date Performed	3/22/2021		N/S Street Name	LOS CARNEROS
Analysis Year			Analysis Time Period (hrs)	0.25
Time Analyzed	AM PEAK HOUR		Peak Hour Factor	0.92
Project Description	EXISTING + PROJECT		Jurisdiction	CITY OF GOLETA

## Volume Adjustments and Site Characteristics

Approach	EB				WB				NB				SB			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Movement																
Number of Lanes (N)	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
Lane Assignment							LTR				LTR				LTR	
Volume (V), veh/h					0	303	0	15	8	0	165	224	0	30	302	0
Percent Heavy Vehicles, %					3	3	3	3	3	3	3	3	3	3	3	3
Flow Rate (v <sub>PCE</sub> ), pc/h					0	339	0	17	9	0	185	251	0	34	338	0
Right-Turn Bypass	None				None				None				None			
Conflicting Lanes					1				1				1			
Pedestrians Crossing, p/h					0				0				0			

## Critical and Follow-Up Headway Adjustment

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Critical Headway (s)					4.9763			4.9763			4.9763	
Follow-Up Headway (s)					2.6087			2.6087			2.6087	

## Flow Computations, Capacity and v/c Ratios

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Entry Flow (v <sub>e</sub> ), pc/h					356			445			372	
Entry Volume, veh/h					346			432			361	
Circulating Flow (v <sub>c</sub> ), pc/h	720			194			34			348		
Exiting Flow (v <sub>ex</sub> ), pc/h	285			0			202			686		
Capacity (c <sub>PCE</sub> ), pc/h					1132			1333			968	
Capacity (c), veh/h					1099			1294			939	
v/c Ratio (x)					0.31			0.33			0.38	

## Delay and Level of Service


Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Lane Control Delay (d), s/veh					6.3			5.8			8.1	
Lane LOS					A			A			A	
95% Queue, veh					1.4			1.5			1.8	
Approach Delay, s/veh				6.3			5.8			8.1		
Approach LOS				A			A			A		
Intersection Delay, s/veh   LOS	6.7						A					



# HCS7 Roundabouts Report

## General Information

## Site Information

Analyst	DLD		Intersection	LOS CARNEROS/CALLE REAL
Agency or Co.	ATE		E/W Street Name	CALLE REAL
Date Performed	3/22/2021		N/S Street Name	LOS CARNEROS
Analysis Year			Analysis Time Period (hrs)	0.25
Time Analyzed	AM PEAK HOUR		Peak Hour Factor	0.92
Project Description	CUMULATIVE		Jurisdiction	CITY OF GOLETA

## Volume Adjustments and Site Characteristics

Approach	EB				WB				NB				SB			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Movement																
Number of Lanes (N)	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
Lane Assignment							LTR				LTR				LTR	
Volume (V), veh/h					0	302	0	15	8	0	161	219	0	30	304	0
Percent Heavy Vehicles, %					3	3	3	3	3	3	3	3	3	3	3	3
Flow Rate (v <sub>pc</sub> ), pc/h					0	338	0	17	9	0	180	245	0	34	340	0
Right-Turn Bypass	None				None				None				None			
Conflicting Lanes					1				1				1			
Pedestrians Crossing, p/h					0				0				0			

## Critical and Follow-Up Headway Adjustment

Approach	EB			WB			NB			SB			
	Lane	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Critical Headway (s)						4.9763			4.9763			4.9763	
Follow-Up Headway (s)						2.6087			2.6087			2.6087	

## Flow Computations, Capacity and v/c Ratios

Approach	EB			WB			NB			SB			
	Lane	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Entry Flow (v <sub>e</sub> ), pc/h						355			434			374	
Entry Volume, veh/h						345			421			363	
Circulating Flow (v <sub>c</sub> ), pc/h			721			189			34			347	
Exiting Flow (v <sub>ex</sub> ), pc/h			279			0			197			687	
Capacity (c <sub>pc</sub> ), pc/h						1138			1333			969	
Capacity (c), veh/h						1105			1294			940	
v/c Ratio (x)						0.31			0.33			0.39	

## Delay and Level of Service


Approach	EB			WB			NB			SB			
	Lane	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Lane Control Delay (d), s/veh						6.3			5.7			8.1	
Lane LOS						A			A			A	
95% Queue, veh						1.3			1.4			1.8	
Approach Delay, s/veh						6.3			5.7			8.1	
Approach LOS						A			A			A	
Intersection Delay, s/veh   LOS	6.7						A						



# HCS7 Roundabouts Report

## General Information

## Site Information

Analyst	DLD		Intersection	LOS CARNEROS/CALLE REAL
Agency or Co.	ATE		E/W Street Name	CALLE REAL
Date Performed	3/22/2021		N/S Street Name	LOS CARNEROS
Analysis Year			Analysis Time Period (hrs)	0.25
Time Analyzed	AM PEAK HOUR		Peak Hour Factor	0.92
Project Description	CUMULATIVE + PROJECT		Jurisdiction	CITY OF GOLETA

## Volume Adjustments and Site Characteristics

Approach	EB				WB				NB				SB			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Movement																
Number of Lanes (N)	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
Lane Assignment							LTR				LTR				LTR	
Volume (V), veh/h					0	304	0	15	8	0	169	227	0	30	306	0
Percent Heavy Vehicles, %					3	3	3	3	3	3	3	3	3	3	3	3
Flow Rate (v <sub>PCE</sub> ), pc/h					0	340	0	17	9	0	189	254	0	34	343	0
Right-Turn Bypass	None				None				None				None			
Conflicting Lanes					1				1				1			
Pedestrians Crossing, p/h					0				0				0			

## Critical and Follow-Up Headway Adjustment

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Critical Headway (s)					4.9763			4.9763			4.9763	
Follow-Up Headway (s)					2.6087			2.6087			2.6087	

## Flow Computations, Capacity and v/c Ratios

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Entry Flow (v <sub>e</sub> ), pc/h					357			452			377	
Entry Volume, veh/h					347			439			366	
Circulating Flow (v <sub>c</sub> ), pc/h	726			198			34			349		
Exiting Flow (v <sub>ex</sub> ), pc/h	288			0			206			692		
Capacity (c <sub>PCE</sub> ), pc/h					1128			1333			967	
Capacity (c), veh/h					1095			1294			939	
v/c Ratio (x)					0.32			0.34			0.39	

## Delay and Level of Service

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Lane Control Delay (d), s/veh					6.4			5.9			8.2	
Lane LOS					A			A			A	
95% Queue, veh					1.4			1.5			1.9	
Approach Delay, s/veh				6.4			5.9			8.2		
Approach LOS				A			A			A		
Intersection Delay, s/veh   LOS	6.8						A					



# HCS7 Roundabouts Report

## General Information

Analyst	DLD
Agency or Co.	ATE
Date Performed	3/22/2021
Analysis Year	
Time Analyzed	PM PEAK HOUR
Project Description	EXISTING CONDITIONS



## Site Information

Intersection	LOS CARNEROS/CALLE REAL
E/W Street Name	CALLE REAL
N/S Street Name	LOS CARNEROS
Analysis Time Period (hrs)	0.25
Peak Hour Factor	0.92
Jurisdiction	CITY OF GOLETA

## Volume Adjustments and Site Characteristics

Approach	EB				WB				NB				SB			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Movement																
Number of Lanes (N)	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
Lane Assignment							LTR				LTR				LTR	
Volume (V), veh/h					0	392	0	21	20	0	296	513	0	2	106	0
Percent Heavy Vehicles, %					3	3	3	3	3	3	3	3	3	3	3	3
Flow Rate (v <sub>pc</sub> ), pc/h					0	439	0	24	22	0	331	574	0	2	119	0
Right-Turn Bypass	None				None				None				None			
Conflicting Lanes					1				1				1			
Pedestrians Crossing, p/h					0				0				0			

## Critical and Follow-Up Headway Adjustment

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Critical Headway (s)												
Follow-Up Headway (s)												

## Flow Computations, Capacity and v/c Ratios

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Entry Flow (v <sub>e</sub> ), pc/h												
Entry Volume, veh/h												
Circulating Flow (v <sub>c</sub> ), pc/h	582			353			2			461		
Exiting Flow (v <sub>ex</sub> ), pc/h	576			0			355			580		
Capacity (C <sub>pc</sub> ), pc/h												
Capacity (c), veh/h												
v/c Ratio (x)												

## Delay and Level of Service

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Lane Control Delay (d), s/veh												
Lane LOS												
95% Queue, veh												
Approach Delay, s/veh				9.8			11.4			5.7		
Approach LOS				A			B			A		
Intersection Delay, s/veh   LOS	10.4						B					



# HCS7 Roundabouts Report

## General Information

## Site Information

Analyst	DLD		Intersection	LOS CARNEROS/CALLE REAL
Agency or Co.	ATE		E/W Street Name	CALLE REAL
Date Performed	3/22/2021		N/S Street Name	LOS CARNEROS
Analysis Year			Analysis Time Period (hrs)	0.25
Time Analyzed	PM PEAK HOUR		Peak Hour Factor	0.92
Project Description	EXISTING + PROJECT		Jurisdiction	CITY OF GOLETA

## Volume Adjustments and Site Characteristics

Approach	EB				WB				NB				SB			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Movement																
Number of Lanes (N)	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
Lane Assignment							LTR				LTR				LTR	
Volume (V), veh/h					0	399	0	21	20	0	299	516	0	2	113	0
Percent Heavy Vehicles, %					3	3	3	3	3	3	3	3	3	3	3	3
Flow Rate (v <sub>PCU</sub> ), pc/h					0	447	0	24	22	0	335	578	0	2	127	0
Right-Turn Bypass	None				None				None				None			
Conflicting Lanes					1				1				1			
Pedestrians Crossing, p/h					0				0				0			

## Critical and Follow-Up Headway Adjustment

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Critical Headway (s)												
Follow-Up Headway (s)												

## Flow Computations, Capacity and v/c Ratios

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Entry Flow (v <sub>e</sub> ), pc/h												
Entry Volume, veh/h												
Circulating Flow (v <sub>c</sub> ), pc/h	598			357			2			469		
Exiting Flow (v <sub>ex</sub> ), pc/h	580			0			359			596		
Capacity (C <sub>pce</sub> ), pc/h												
Capacity (c), veh/h												
v/c Ratio (x)												

## Delay and Level of Service

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Lane Control Delay (d), s/veh												
Lane LOS												
95% Queue, veh												
Approach Delay, s/veh				10.0			11.6			5.9		
Approach LOS				A			B			A		
Intersection Delay, s/veh   LOS	10.6						B					



# HCS7 Roundabouts Report

## General Information

## Site Information

Analyst	DLD		Intersection	LOS CARNEROS/CALLE REAL
Agency or Co.	ATE		E/W Street Name	CALLE REAL
Date Performed	3/22/2021		N/S Street Name	LOS CARNEROS
Analysis Year			Analysis Time Period (hrs)	0.25
Time Analyzed	PM PEAK HOUR		Peak Hour Factor	0.92
Project Description	CUMULATIVE		Jurisdiction	CITY OF GOLETA

## Volume Adjustments and Site Characteristics

Approach	EB				WB				NB				SB			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Movement																
Number of Lanes (N)	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
Lane Assignment							LTR				LTR				LTR	
Volume (V), veh/h					0	395	0	21	20	0	302	515	0	2	110	0
Percent Heavy Vehicles, %					3	3	3	3	3	3	3	3	3	3	3	3
Flow Rate (v <sub>PCE</sub> ), pc/h					0	442	0	24	22	0	338	577	0	2	123	0
Right-Turn Bypass	None				None				None				None			
Conflicting Lanes					1				1				1			
Pedestrians Crossing, p/h					0				0				0			

## Critical and Follow-Up Headway Adjustment

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Critical Headway (s)					4.9763			4.9763			4.9763	
Follow-Up Headway (s)					2.6087			2.6087			2.6087	

## Flow Computations, Capacity and v/c Ratios

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Entry Flow (v <sub>e</sub> ), pc/h					466			937			125	
Entry Volume, veh/h					452			910			121	
Circulating Flow (v <sub>c</sub> ), pc/h	589			360			2			464		
Exiting Flow (v <sub>ex</sub> ), pc/h	579			0			362			587		
Capacity (c <sub>PCE</sub> ), pc/h					956			1377			860	
Capacity (c), veh/h					928			1337			835	
v/c Ratio (x)					0.49			0.68			0.15	

## Delay and Level of Service

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Lane Control Delay (d), s/veh					9.9			11.6			5.8	
Lane LOS					A			B			A	
95% Queue, veh					2.7			5.8			0.5	
Approach Delay, s/veh				9.9			11.6			5.8		
Approach LOS				A			B			A		
Intersection Delay, s/veh   LOS	10.6						B					



# HCS7 Roundabouts Report

## General Information

## Site Information

Analyst	DLD		Intersection	LOS CARNEROS/CALLE REAL
Agency or Co.	ATE		E/W Street Name	CALLE REAL
Date Performed	3/22/2021		N/S Street Name	LOS CARNEROS
Analysis Year			Analysis Time Period (hrs)	0.25
Time Analyzed	PM PEAK HOUR		Peak Hour Factor	0.92
Project Description	CUMULATIVE + PROJECT		Jurisdiction	CITY OF GOLETA

## Volume Adjustments and Site Characteristics

Approach	EB				WB				NB				SB			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Movement																
Number of Lanes (N)	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
Lane Assignment							LTR				LTR				LTR	
Volume (V), veh/h					0	402	0	21	20	0	305	518	0	2	117	0
Percent Heavy Vehicles, %					3	3	3	3	3	3	3	3	3	3	3	3
Flow Rate (v <sub>pce</sub> ), pc/h					0	450	0	24	22	0	341	580	0	2	131	0
Right-Turn Bypass	None				None				None				None			
Conflicting Lanes					1				1				1			
Pedestrians Crossing, p/h					0				0				0			

## Critical and Follow-Up Headway Adjustment

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Critical Headway (s)												
Follow-Up Headway (s)												

## Flow Computations, Capacity and v/c Ratios

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Entry Flow (v <sub>e</sub> ), pc/h												
Entry Volume, veh/h												
Circulating Flow (v <sub>c</sub> ), pc/h	605			363			2			472		
Exiting Flow (v <sub>ex</sub> ), pc/h	582			0			365			603		
Capacity (c <sub>pce</sub> ), pc/h												
Capacity (c), veh/h												
v/c Ratio (x)												

## Delay and Level of Service

Approach	EB			WB			NB			SB		
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass
Lane Control Delay (d), s/veh												
Lane LOS												
95% Queue, veh												
Approach Delay, s/veh				10.2			11.7			5.9		
Approach LOS				B			B			A		
Intersection Delay, s/veh   LOS	10.8						B					

HERITAGE RIDGE PROJECT (20058.01)  
 INTERSECTION CAPACITY UTILIZATION WORKSHEET  
 COUNT DATE: 10/10/2019  
 TIME PERIOD: AM PEAK HOUR  
 N/S STREET: LOS CARNEROS RD  
 E/W STREET: US 101 NB RAMPS  
 CONTROL TYPE: SIGNAL

REF: 02 AM

TRAFFIC VOLUME SUMMARY

VOLUMES	NORTH BOUND			SOUTH BOUND			EAST BOUND			WEST BOUND		
	L	T	R	L	T	R	L	T	R	L	T	R
(A) EXISTING:	48	313	0	0	463	133	0	0	0	1061	2	51
(B) PROJECT-ADDED:	8	16	0	0	4	0	0	0	0	15	0	0
(C) CUMULATIVE:	57	320	0	0	467	134	0	0	0	1102	0	51

GEOMETRICS

LANE GEOMETRICS	NORTH BOUND		SOUTH BOUND		EAST BOUND		WEST BOUND	
	L	TT	T	TR	L	TR	L	LTR

TRAFFIC SCENARIOS

SCENARIO 1 = EXISTING VOLUMES (A)  
 SCENARIO 2 = EXISTING + PROJECT VOLUMES (A+B)  
 SCENARIO 3 = CUMULATIVE (C)  
 SCENARIO 4 = CUMULATIVE + PROJECT VOLUMES (B+C)

LEVEL OF SERVICE CALCULATIONS

TURNING MOVEMENT	# OF LANES	CAPACITY	SCENARIO VOLUMES				SCENARIO V/C RATIOS					
			1	2	3	4	1	2	3	4		
NBL	1	1600	48	56	57	65	0.030 *	0.035 *	0.036 *	0.041 *		
NBT	2	3200	313	329	320	336	0.098	0.103	0.100	0.105		
NBR	0	0	0	0	0	0	-	-	-	-		
SBL	0	0	0	0	0	0	-	-	-	-		
SBT	2	3200	463	467	467	471	0.186 *	0.188 *	0.188 *	0.189 *		
SBR	0	0	133	133	134	134	-	-	-	-		
EBL	0	0	0	0	0	0	-	-	-	-		
EBT	0	0	0	0	0	0	-	-	-	-		
EBR	0	0	0	0	0	0	-	-	-	-		
WBL	0	0	1061	1076	1102	1117	-	-	-	-		
WBT	2	3200	2	2	0	0	0.338 *	0.343 *	0.350 *	0.355 *		
WBR (a)	0	0	18	18	18	18	-	-	-	-		
LOST TIME:							0.100 *	0.100 *	0.100 *	0.100 *		
TOTAL INTERSECTION CAPACITY UTILIZATION							0.654	0.666	0.674	0.685		
SCENARIO LEVEL OF SERVICE:							B	B	B	B		
CHANGE IN V/C:								0.012		0.011		

NOTES:

RTOR (a) 64%

HERITAGE RIDGE PROJECT (20058.01)  
 INTERSECTION CAPACITY UTILIZATION WORKSHEET  
 COUNT DATE: 10/10/2019  
 TIME PERIOD: PM PEAK HOUR  
 N/S STREET: LOS CARNEROS RD  
 E/W STREET: US 101 NB RAMPS  
 CONTROL TYPE: SIGNAL

REF: 02 PM

TRAFFIC VOLUME SUMMARY

VOLUMES	NORTH BOUND			SOUTH BOUND			EAST BOUND			WEST BOUND		
	L	T	R	L	T	R	L	T	R	L	T	R
(A) EXISTING:	316	766	0	0	336	190	0	0	0	516	7	59
(B) PROJECT-ADDED:	3	6	0	0	14	0	0	0	0	54	0	0
(C) CUMULATIVE:	331	774	0	0	340	193	0	0	0	557	7	77

GEOMETRICS

LANE GEOMETRICS	NORTH BOUND		SOUTH BOUND		EAST BOUND		WEST BOUND	
	L	TT	T	TR	L	TR	L	LTR

TRAFFIC SCENARIOS

SCENARIO 1 = EXISTING VOLUMES (A)  
 SCENARIO 2 = EXISTING + PROJECT VOLUMES (A+B)  
 SCENARIO 3 = CUMULATIVE (C)  
 SCENARIO 4 = CUMULATIVE + PROJECT VOLUMES (B+C)

LEVEL OF SERVICE CALCULATIONS

TURNING MOVEMENT	# OF LANES	CAPACITY	SCENARIO VOLUMES				SCENARIO V/C RATIOS					
			1	2	3	4	1	2	3	4		
NBL	1	1600	316	319	331	334	0.198 *	0.199 *	0.207 *	0.209 *		
NBT	2	3200	766	772	774	780	0.239	0.241	0.242	0.244		
NBR	0	0	0	0	0	0	-	-	-	-		
SBL	0	0	0	0	0	0	-	-	-	-		
SBT	2	3200	336	350	340	354	0.164 *	0.169 *	0.167 *	0.171 *		
SBR	0	0	190	190	193	193	-	-	-	-		
EBL	0	0	0	0	0	0	-	-	-	-		
EBT	0	0	0	0	0	0	-	-	-	-		
EBR	0	0	0	0	0	0	-	-	-	-		
WBL	0	0	516	570	557	611	-	-	-	-		
WBT	2	3200	7	7	7	7	0.171 *	0.188 *	0.186 *	0.203 *		
WBR (a)	0	0	25	25	32	32	-	-	-	-		
LOST TIME:							0.100 *	0.100 *	0.100 *	0.100 *		
TOTAL INTERSECTION CAPACITY UTILIZATION:							0.633	0.656	0.660	0.683		
SCENARIO LEVEL OF SERVICE:							B	B	B	B		
CHANGE IN V/C:								0.023		0.023		

NOTES:  
 RTOR (a) 58%

HERITAGE RIDGE PROJECT (20058.01)  
 INTERSECTION CAPACITY UTILIZATION WORKSHEET  
 COUNT DATE: 10/10/2019  
 TIME PERIOD: AM PEAK HOUR  
 N/S STREET: LOS CARNEROS ROAD  
 E/W STREET: US 101 SB RAMPS  
 CONTROL TYPE: SIGNAL

REF: 03 AM

**TRAFFIC VOLUME SUMMARY**

VOLUMES	NORTH BOUND			SOUTH BOUND			EAST BOUND			WEST BOUND		
	L	T	R	L	T	R	L	T	R	L	T	R
(A) EXISTING:	0	227	472	96	1439	0	144	4	201	0	0	0
(B) PROJECT-ADDED:	0	24	63	0	19	0	0	0	2	0	0	0
(C) CUMULATIVE:	0	240	513	96	1484	0	147	4	213	0	0	0

**GEOMETRICS**

LANE GEOMETRICS	NORTH BOUND		SOUTH BOUND		EAST BOUND		WEST BOUND	
	TT	R	L	TT	LT	R	LT	R

**TRAFFIC SCENARIOS**

SCENARIO 1 = EXISTING VOLUMES (A)  
 SCENARIO 2 = EXISTING + PROJECT VOLUMES (A+B)  
 SCENARIO 3 = CUMULATIVE (C)  
 SCENARIO 4 = CUMULATIVE + PROJECT VOLUMES (B+C)

**LEVEL OF SERVICE CALCULATIONS**

TURNING MOVEMENT	# OF LANES	CAPACITY	SCENARIO VOLUMES				SCENARIO V/C RATIOS					
			1	2	3	4	1	2	3	4		
NBL	0	0	0	0	0	0	-	-	-	-		
NBT	2	3200	227	251	240	264	0.071	0.078	0.075	0.083		
NBR (a)	1	1600	340	385	369	415	0.213	0.241	0.231	0.259		
SBL	1	1600	96	96	96	96	0.060	0.060	0.060	0.060		
SBT	2	3200	1439	1458	1484	1503	0.450 *	0.456 *	0.464 *	0.470 *		
SBR	0	0	0	0	0	0	-	-	-	-		
EBL	0	0	144	144	147	147	-	-	-	-		
EBT	1	1600	4	4	4	4	0.093	0.093	0.094	0.094		
EBR (b)	1	1600	157	158	166	168	0.098 *	0.099 *	0.104 *	0.105 *		
WBL	0	0	0	0	0	0	-	-	-	-		
WBT	0	0	0	0	0	0	-	-	-	-		
WBR	0	0	0	0	0	0	-	-	-	-		
LOST TIME:							0.100 *	0.100 *	0.100 *	0.100 *		
TOTAL INTERSECTION CAPACITY UTILIZATION:							0.648	0.655	0.668	0.675		
SCENARIO LEVEL OF SERVICE:							B	B	B	B		
CHANGE IN V/C:								0.007		0.007		

**NOTES:**  
 RTOR (a) 28%  
 (b) 22%

**HERITAGE RIDGE PROJECT (20058.01)**  
**INTERSECTION CAPACITY UTILIZATION WORKSHEET**

REF: 03 PM

COUNT DATE: **10/10/2019**  
 TIME PERIOD: **PM PEAK HOUR**  
 N/S STREET: **LOS CARNEROS ROAD**  
 E/W STREET: **US 101 SB RAMPS**  
 CONTROL TYPE: **SIGNAL**

**TRAFFIC VOLUME SUMMARY**

VOLUMES	NORTH BOUND			SOUTH BOUND			EAST BOUND			WEST BOUND		
	L	T	R	L	T	R	L	T	R	L	T	R
(A) EXISTING:	0	940	1101	58	756	0	134	1	50	0	0	0
(B) PROJECT-ADDED:	0	9	25	0	68	0	0	0	7	0	0	0
(C) CUMULATIVE:	0	961	1159	58	801	0	136	1	60	0	0	0

**GEOMETRICS**

LANE GEOMETRICS	NORTH BOUND		SOUTH BOUND		EAST BOUND		WEST BOUND	
	TT	R	L	TT	LT	R	LT	R

**TRAFFIC SCENARIOS**

SCENARIO 1 = EXISTING VOLUMES (A)  
 SCENARIO 2 = EXISTING + PROJECT VOLUMES (A+B)  
 SCENARIO 3 = CUMULATIVE (C)  
 SCENARIO 4 = CUMULATIVE + PROJECT VOLUMES (B+C)

**LEVEL OF SERVICE CALCULATIONS**

TURNING MOVEMENT	# OF LANES	CAPACITY	SCENARIO VOLUMES				SCENARIO V/C RATIOS					
			1	2	3	4	1	2	3	4		
NBL	0	0	0	0	0	0	-	-	-	-		
NBT	2	3200	940	949	961	970	0.294	0.297	0.300	0.303		
NBR (a)	1	1600	826	845	869	888	0.516 *	0.528 *	0.543 *	0.555 *		
SBL	1	1600	58	58	58	58	0.036 *	0.036 *	0.036 *	0.036 *		
SBT	2	3200	756	824	801	869	0.236	0.258	0.250	0.272		
SBR	0	0	0	0	0	0	-	-	-	-		
EBL	0	0	134	134	136	136	-	-	-	-		
EBT	1	1600	1	1	1	1	0.084 *	0.084 *	0.086 *	0.086 *		
EBR (b)	1	1600	25	29	30	34	0.016	0.018	0.019	0.021		
WBL	0	0	0	0	0	0	-	-	-	-		
WBT	0	0	0	0	0	0	-	-	-	-		
WBR	0	0	0	0	0	0	-	-	-	-		
LOST TIME:							0.100 *	0.100 *	0.100 *	0.100 *		
TOTAL INTERSECTION CAPACITY UTILIZATION:							0.736	0.748	0.765	0.777		
SCENARIO LEVEL OF SERVICE:							C	C	C	C		
CHANGE IN V/C:								0.012		0.012		

**NOTES:**

RTOR (a) 25%  
 (b) 50%

HERITAGE RIDGE PROJECT (20058.01)

REF: 04 AM

INTERSECTION CAPACITY UTILIZATION WORKSHEET

COUNT DATE: 10/10/2019  
 TIME PERIOD: AM PEAK HOUR  
 N/S STREET: LOS CARNEROS ROAD  
 E/W STREET: CALLE KORAL  
 CONTROL TYPE: SIGNAL

TRAFFIC VOLUME SUMMARY

VOLUMES	NORTH BOUND			SOUTH BOUND			EAST BOUND			WEST BOUND		
	L	T	R	L	T	R	L	T	R	L	T	R
(A) EXISTING:	5	473	26	221	1365	40	111	12	35	40	12	110
(B) PROJECT-ADDED:	0	0	7	21	0	0	0	0	0	28	0	87
(C) CUMULATIVE:	5	527	26	221	1472	40	111	12	35	40	12	110

GEOMETRICS

LANE GEOMETRICS	NORTH BOUND			SOUTH BOUND			EAST BOUND			WEST BOUND		
	L	TT	TR	L	TT	R	L	TR	L	TR	L	TR

TRAFFIC SCENARIOS

SCENARIO 1 = EXISTING VOLUMES (A)  
 SCENARIO 2 = EXISTING + PROJECT VOLUMES (A+B)  
 SCENARIO 3 = CUMULATIVE (C)  
 SCENARIO 4 = CUMULATIVE + PROJECT VOLUMES (B+C)

LEVEL OF SERVICE CALCULATIONS

TURNING MOVEMENT	# OF LANES	CAPACITY	SCENARIO VOLUMES				SCENARIO V/C RATIOS					
			1	2	3	4	1	2	3	4		
NBL	1	1600	5	5	5	5	0.003 *	0.003 *	0.003 *	0.003 *		
NBT	3	4800	473	473	527	527	0.104	0.105	0.115	0.117		
NBR	0	0	26	33	26	33	-	-	-	-		
SBL	1	1600	221	242	221	242	0.138	0.151	0.138	0.151		
SBT	2	3200	1365	1365	1472	1472	0.427 *	0.427 *	0.460 *	0.460 *		
SBR	1	1600	40	40	40	40	0.025	0.025	0.025	0.025		
EBL	1	1600	111	111	111	111	0.069 *	0.069 *	0.069 *	0.069 *		
EBT	1	1600	12	12	12	12	0.029	0.029	0.029	0.029		
EBR	0	0	35	35	35	35	-	-	-	-		
WBL	1	1600	40	68	40	68	0.025	0.043	0.025	0.043		
WBT	1	1600	12	12	12	12	0.008 *	0.008 *	0.008 *	0.008 *		
WBR (a)	1	1600	0	0	0	0	0.000	0.000	0.000	0.000		
LOST TIME:							0.100 *	0.100 *	0.100 *	0.100 *		
TOTAL INTERSECTION CAPACITY UTILIZATION:							0.607	0.607	0.640	0.640		
SCENARIO LEVEL OF SERVICE:							B	B	B	B		
CHANGE IN V/C:							0.000	0.000	0.000	0.000		

NOTES:

(a) Assumes overlap with SB LT phase.

HERITAGE RIDGE PROJECT (20058.01)  
 INTERSECTION CAPACITY UTILIZATION WORKSHEET  
 COUNT DATE: 10/10/2019  
 TIME PERIOD: PM PEAK HOUR  
 N/S STREET: LOS CARNEROS ROAD  
 E/W STREET: CALLE KORAL  
 CONTROL TYPE: SIGNAL

REF: 04 PM

**TRAFFIC VOLUME SUMMARY**

VOLUMES	NORTH BOUND			SOUTH BOUND			EAST BOUND			WEST BOUND		
	L	T	R	L	T	R	L	T	R	L	T	R
(A) EXISTING:	30	1599	52	92	634	73	83	7	18	27	18	365
(B) PROJECT-ADDED:	0	0	23	75	0	0	0	0	0	11	0	34
(C) CUMULATIVE:	63	1678	52	92	689	73	83	7	18	27	18	365

**GEOMETRICS**

LANE GEOMETRICS	NORTH BOUND			SOUTH BOUND			EAST BOUND			WEST BOUND		
	L	TT	TR	L	TT	R	L	TR	L	T	R	

**TRAFFIC SCENARIOS**

SCENARIO 1 = EXISTING VOLUMES (A)  
 SCENARIO 2 = EXISTING + PROJECT VOLUMES (A+B)  
 SCENARIO 3 = CUMULATIVE (C)  
 SCENARIO 4 = CUMULATIVE + PROJECT VOLUMES (B+C)

**LEVEL OF SERVICE CALCULATIONS**

TURNING MOVEMENT	# OF LANES	CAPACITY	SCENARIO VOLUMES				SCENARIO V/C RATIOS					
			1	2	3	4	1	2	3	4		
NBL	1	1600	30	30	63	63	0.019	0.019	0.039	0.039		
NBT	3	4800	1599	1599	1678	1678	0.343 *	0.347 *	0.359 *	0.364 *		
NBR (a)	0	0	47	68	47	68	-	-	-	-		
SBL	1	1600	92	167	92	167	0.058 *	0.104 *	0.058 *	0.104 *		
SBT	2	3200	634	634	689	689	0.198	0.198	0.215	0.215		
SBR	1	1600	73	73	73	73	0.046	0.046	0.046	0.046		
EBL	1	1600	83	83	83	83	0.052 *	0.052 *	0.052 *	0.052 *		
EBT	1	1600	7	7	7	7	0.016	0.016	0.016	0.016		
EBR	0	0	18	18	18	18	-	-	-	-		
WBL	1	1600	27	38	27	38	0.017	0.024	0.017	0.024		
WBT	1	1600	18	18	18	18	0.011	0.011	0.011	0.011		
WBR (b)	1	1600	211	164	211	164	0.132 *	0.103 *	0.132 *	0.103 *		
LOST TIME:							0.100 *	0.100 *	0.100 *	0.100 *		
TOTAL INTERSECTION CAPACITY UTILIZATION:							0.685	0.706	0.701	0.723		
SCENARIO LEVEL OF SERVICE:							B	C	B	C		
CHANGE IN V/C:								0.021		0.022		

**NOTES:**

RTOR (a) 9%  
 (b) 17% RTOR + overlap with SB LT phase.



**HERITAGE RIDGE PROJECT (20058.01)**  
 INTERSECTION CAPACITY UTILIZATION WORKSHEET  
 COUNT DATE: **10/10/2019**  
 TIME PERIOD: **AM PEAK HOUR**  
 N/S STREET: **LOS CARNEROS ROAD**  
 E/W STREET: **HOLLISTER AVENUE**  
 CONTROL TYPE: **SIGNAL**

REF: 05 AM

**TRAFFIC VOLUME SUMMARY**

VOLUMES	NORTH BOUND			SOUTH BOUND			EAST BOUND			WEST BOUND		
	L	T	R	L	T	R	L	T	R	L	T	R
(A) EXISTING:	59	344	73	37	464	222	109	495	218	100	284	38
(B) PROJECT-ADDED:	0	3	3	0	12	16	4	4	0	11	15	0
(C) CUMULATIVE:	60	369	77	37	494	237	124	516	219	105	299	38

**GEOMETRICS**

LANE GEOMETRICS	NORTH BOUND			SOUTH BOUND			EAST BOUND			WEST BOUND		
	LL	TT	R	L	TT	R	LL	T	TR	L	T	TR

**TRAFFIC SCENARIOS**

SCENARIO 1 = EXISTING VOLUMES (A)  
 SCENARIO 2 = EXISTING + PROJECT VOLUMES (A+B)  
 SCENARIO 3 = CUMULATIVE (C)  
 SCENARIO 4 = CUMULATIVE + PROJECT VOLUMES (B+C)

**LEVEL OF SERVICE CALCULATIONS**

TURNING MOVEMENT	# OF LANES	CAPACITY	SCENARIO VOLUMES				SCENARIO V/C RATIOS			
			1	2	3	4	1	2	3	4
NBL	2	3200	59	59	60	60	0.018 *	0.018 *	0.019 *	0.019 *
NBT	2	3200	344	347	369	372	0.108	0.108	0.115	0.116
NBR (a)	1	1600	62	65	65	68	0.039	0.041	0.041	0.043
SBL	1	1600	37	37	37	37	0.023	0.023	0.023	0.023
SBT	2	3200	464	476	494	506	0.145 *	0.149 *	0.154 *	0.158 *
SBR (b)	1	1600	155	167	166	177	0.097	0.104	0.104	0.111
EBL	2	3200	109	113	124	128	0.034	0.035	0.039	0.040
EBT	2	3200	495	499	516	520	0.210 *	0.211 *	0.217 *	0.218 *
EBR (c)	0	0	177	177	177	177	-	-	-	-
WBL	1	1600	100	111	105	116	0.063 *	0.069 *	0.066 *	0.073 *
WBT	2	3200	284	299	299	314	0.099	0.104	0.104	0.109
WBR (d)	0	0	34	34	34	34	-	-	-	-
LOST TIME:							0.100 *	0.100 *	0.100 *	0.100 *
TOTAL INTERSECTION CAPACITY UTILIZATION:							0.536	0.547	0.556	0.568
SCENARIO LEVEL OF SERVICE:							A	A	A	A
CHANGE IN V/C:								0.011		0.012

**NOTES:**

- RTOR (a) 15%
- (b) 30%
- (c) 19%
- (d) 10%



HERITAGE RIDGE PROJECT (20058.01)  
 INTERSECTION CAPACITY UTILIZATION WORKSHEET  
 COUNT DATE: 10/10/2019  
 TIME PERIOD: PM PEAK HOUR  
 N/S STREET: LOS CARNEROS ROAD  
 E/W STREET: HOLLISTER AVENUE  
 CONTROL TYPE: SIGNAL

REF: 05 PM

TRAFFIC VOLUME SUMMARY

VOLUMES	NORTH BOUND			SOUTH BOUND			EAST BOUND			WEST BOUND		
	L	T	R	L	T	R	L	T	R	L	T	R
(A) EXISTING:	225	649	140	50	511	183	358	403	122	156	621	37
(B) PROJECT-ADDED:	0	10	10	0	5	6	13	14	0	4	6	0
(C) CUMULATIVE:	227	684	145	50	539	198	378	421	123	161	643	37

GEOMETRICS

LANE GEOMETRICS	NORTH BOUND			SOUTH BOUND			EAST BOUND			WEST BOUND		
	LL	TT	R	L	TT	R	LL	T	TR	L	T	TR

TRAFFIC SCENARIOS

SCENARIO 1 = EXISTING VOLUMES (A)  
 SCENARIO 2 = EXISTING + PROJECT VOLUMES (A+B)  
 SCENARIO 3 = CUMULATIVE (C)  
 SCENARIO 4 = CUMULATIVE + PROJECT VOLUMES (B+C)

LEVEL OF SERVICE CALCULATIONS

TURNING MOVEMENT	# OF LANES	CAPACITY	SCENARIO VOLUMES				SCENARIO V/C RATIOS					
			1	2	3	4	1	2	3	4		
NBL	2	3200	225	225	227	227	0.070	0.070	0.071	0.071		
NBT	2	3200	649	659	684	694	0.203 *	0.206 *	0.214 *	0.217 *		
NBR (a)	1	1600	101	108	104	112	0.063	0.068	0.065	0.070		
SBL	1	1600	50	50	50	50	0.031 *	0.031 *	0.031 *	0.031 *		
SBT	2	3200	511	516	539	544	0.160	0.161	0.168	0.170		
SBR (b)	1	1600	123	127	133	137	0.077	0.079	0.083	0.086		
EBL	2	3200	358	371	378	391	0.112 *	0.116 *	0.118 *	0.122 *		
EBT	2	3200	403	417	421	435	0.155	0.159	0.161	0.165		
EBR (c)	0	0	93	93	93	93	-	-	-	-		
WBL	1	1600	156	160	161	165	0.098	0.100	0.101	0.103		
WBT	2	3200	621	627	643	649	0.205 *	0.207 *	0.212 *	0.213 *		
WBR (d)	0	0	34	34	34	34	-	-	-	-		
LOST TIME:							0.100 *	0.100 *	0.100 *	0.100 *		
TOTAL INTERSECTION CAPACITY UTILIZATION:							0.651	0.660	0.675	0.683		
SCENARIO LEVEL OF SERVICE:							B	B	B	B		
CHANGE IN V/C:								0.009		0.008		

NOTES:

- RTOR (a) 28%
- (b) 33%
- (c) 24%
- (d) 8%

HERITAGE RIDGE PROJECT (20058.01)  
 INTERSECTION CAPACITY UTILIZATION WORKSHEET  
 COUNT DATE: 10/10/2019  
 TIME PERIOD: AM PEAK HOUR  
 N/S STREET: LOS CARNEROS WAY  
 E/W STREET: HOLLISTER AVENUE  
 CONTROL TYPE: SIGNAL

REF: 06 AM

TRAFFIC VOLUME SUMMARY

VOLUMES	NORTH BOUND			SOUTH BOUND			EAST BOUND			WEST BOUND		
	L	T	R	L	T	R	L	T	R	L	T	R
(A) EXISTING:	0	0	0	115	0	49	21	579	0	0	368	38
(B) PROJECT-ADDED:	0	0	0	0	0	26	7	0	0	0	0	0
(C) CUMULATIVE:	0	0	0	115	0	49	21	604	0	0	388	38

GEOMETRICS

LANE GEOMETRICS	NORTH BOUND			SOUTH BOUND			EAST BOUND		WEST BOUND	
	L	T	R	L	LR	R	L	TT	T	TR

TRAFFIC SCENARIOS

SCENARIO 1 = EXISTING VOLUMES (A)  
 SCENARIO 2 = EXISTING + PROJECT VOLUMES (A+B)  
 SCENARIO 3 = CUMULATIVE (C)  
 SCENARIO 4 = CUMULATIVE + PROJECT VOLUMES (B+C)

LEVEL OF SERVICE CALCULATIONS

TURNING MOVEMENT	# OF LANES	CAPACITY	SCENARIO VOLUMES				SCENARIO V/C RATIOS					
			1	2	3	4	1	2	3	4		
NBL	0	0	0	0	0	0	-	-	-	-		
NBT	0	0	0	0	0	0	-	-	-	-		
NBR	0	0	0	0	0	0	-	-	-	-		
SBL (a)	2	3200	115	115	115	115	0.036 *	0.036 *	0.036 *	0.036 *		
SBT	0	0	0	0	0	0	-	-	-	-		
SBR (b)	1	1600	20	31	20	31	0.013	0.019	0.013	0.019		
EBL	1	1600	21	28	21	28	0.013	0.018	0.013	0.018		
EBT	2	3200	579	579	604	604	0.181 *	0.181 *	0.189 *	0.189 *		
EBR	0	0	0	0	0	0	-	-	-	-		
WBL	0	0	0	0	0	0	-	-	-	-		
WBT (c)	2	3200	368	368	388	388	0.123	0.123	0.129	0.129		
WBR	0	0	26	26	26	26	-	-	-	-		
LOST TIME:							0.100 *	0.100 *	0.100 *	0.100 *		
TOTAL INTERSECTION CAPACITY UTILIZATION:							0.317	0.317	0.325	0.325		
SCENARIO LEVEL OF SERVICE:							A	A	A	A		
CHANGE IN V/C:								0.000		0.000		

NOTES:

- (a) LEFT-TURN CHECK
- (b) 59% RTOR
- (c) 32% RTOR

HERITAGE RIDGE PROJECT (20058.01)  
 INTERSECTION CAPACITY UTILIZATION WORKSHEET  
 COUNT DATE: 10/10/2019  
 TIME PERIOD: PM PEAK HOUR  
 N/S STREET: LOS CARNEROS WAY  
 E/W STREET: HOLLISTER AVENUE  
 CONTROL TYPE: SIGNAL

REF: 06 PM

TRAFFIC VOLUME SUMMARY

VOLUMES	NORTH BOUND			SOUTH BOUND			EAST BOUND			WEST BOUND		
	L	T	R	L	T	R	L	T	R	L	T	R
(A) EXISTING:	0	0	0	40	0	23	43	538	0	0	780	160
(B) PROJECT-ADDED:	0	0	0	0	0	10	24	0	0	0	0	0
(C) CUMULATIVE:	0	0	0	40	0	23	43	561	0	0	807	160

GEOMETRICS

LANE GEOMETRICS	NORTH BOUND			SOUTH BOUND			EAST BOUND			WEST BOUND		
	L	T	R	L	R	R	L	T	T	T	TR	

TRAFFIC SCENARIOS

SCENARIO 1 = EXISTING VOLUMES (A)  
 SCENARIO 2 = EXISTING + PROJECT VOLUMES (A+B)  
 SCENARIO 3 = CUMULATIVE (C)  
 SCENARIO 4 = CUMULATIVE + PROJECT VOLUMES (B+C)

LEVEL OF SERVICE CALCULATIONS

TURNING MOVEMENT	# OF LANES	CAPACITY	SCENARIO VOLUMES				SCENARIO V/C RATIOS					
			1	2	3	4	1	2	3	4		
NBL	0	0	0	0	0	0	-	-	-	-		
NBT	0	0	0	0	0	0	-	-	-	-		
NBR	0	0	0	0	0	0	-	-	-	-		
SBL (a)	2	3200	40	40	40	40	0.013 *	0.013 *	0.013 *	0.013 *		
SBT	0	0	0	0	0	0	-	-	-	-		
SBR (b)	1	1600	13	19	13	19	0.008	0.012	0.008	0.012		
EBL	1	1600	43	67	43	67	0.027 *	0.042 *	0.027 *	0.042 *		
EBT	2	3200	538	538	561	561	0.168	0.168	0.175	0.175		
EBR	0	0	0	0	0	0	-	-	-	-		
WBL	0	0	0	0	0	0	-	-	-	-		
WBT	2	3200	780	780	807	807	0.287 *	0.287 *	0.295 *	0.295 *		
WBR (c)	0	0	138	138	138	138	-	-	-	-		
LOST TIME:							0.100 *	0.100 *	0.100 *	0.100 *		
TOTAL INTERSECTION CAPACITY UTILIZATION:							0.427	0.442	0.435	0.450		
SCENARIO LEVEL OF SERVICE:							A	A	A	A		
CHANGE IN V/C:								0.015		0.015		

NOTES:

- (a) LEFT-TURN CHECK
- (b) 43% RTOR
- (c) 14% RTOR

City of Goleta  
 SB743 Sketch VMT Tool - Residential Projects  
 Note: The analysis computes the VMT per capita and compares against the City of Goleta thresholds

**Data Entry**

Project Name	Heritage Ridge
Address	Camino Vista
APN	073-060-031 through -043
SBCAG TAZ	20139
VMT District	4

**Residential Project**

New Units	353	Daily Trips	1,970
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**Analysis and Results**

Screening Status: **VMT Analysis Required**

	Housing Units	Population
VMT District 4 Current	232	536
Added	353	809
New Total	585	1,345

	VMT per Capita	Adopted Threshold
VMT District 4 Current	19.29	16.79
With Project	18.81	16.79

**Threshold Analysis**

Final Result: **Project Exceeds Threshold**

**Associated Transportation Engineers**

**HERITAGE RIDGE PROJECT - TRIP GENERATION**

Scenario	Size	ADT		AM PEAK HOUR		PM PEAK HOUR	
		Rate	Trips	Rate	Trips	Rate	Trips
Workforce Apartments	228 DU	7.32	1,669	0.65	148	0.66	150
Affordable Apartments(a)	63 DU	5.20	328	0.46	29	0.47	30
Affordable Senior Apartments(a)	41 DU	2.63	108	0.14	6	0.18	7
<b>Totals</b>	<b>332 DU</b>		<b>2,105</b>		<b>183</b>		<b>187</b>

(a) ADT rates for Affordable Apartments and Affordable Senior Apartments assume that units generate 71% of traffic generated by regular units.

**LAND USE AND TRIP GENERATION COMPARISON TO DEIR**

Scenario	Size	ADT		AM PEAK HOUR		PM PEAK HOUR	
		Rate	Trips	Rate	Trips	Rate	Trips
EIR	360 DU		1,970		174		183
CURRENT PROJECT	332 DU		2,105		183		187
<b>CHANGE</b>	<b>-28 DU</b>		<b>135</b>		<b>9</b>		<b>4</b>

**HERITAGE RIDGE PROJECT - VMT CALCULATIONS**

Scenario	Size	DAILY VMT(a)		ANNUAL VMT(b)	
		Rate	VMT	Days	VMT
Workforce Apartments(c)	228 DU	44.56	10,160	365	3,708,400
Affordable Apartments(d)	63 DU	31.63	1,993	365	727,445
Affordable Senior Apartments(e)	41 DU	15.99	656	365	239,440
<b>Totals</b>	<b>332 DU</b>		<b>12,809</b>		<b>4,675,285</b>

(a) DAILY VMT based on City of Goleta VMT calculator.

(b) ANNUAL VMT assumed DAILY VMT x 365 days per year.

(c) VMT assumes 19.29 VMT pe capita and 2.31 people per unit based on City VMT calculations

(d) VMT assumes affordable apartments generate 71% of the traffic generated by Workforce apartments

(e) VMT assumes affordable senior units generate 35.9% of the traffic generated by Workforce apartments

## **Appendix J**

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*Judgement Upon Arbitration Award and  
Annual Demand Water Report*





March 21, 2014

Ms. Mary Chang  
Senior Planner  
Planning and Environmental Review  
City of Goleta  
130 Cremona Drive, Suite B  
Goleta, CA 93117

RE: North Willow Springs Conceptual Review

Dear Ms. Chang:

At our meeting on March 20 we had a brief discussion about water service for North Willow Springs. I have enclosed a copy of the recorded Judgment which was entered in the Superior Court to provide water service for all of the Willow Springs property, which I purchased from the prior owners. You will see in Section 5 that we are entitled to 100.89 AFY, and we expect to be somewhat under that amount with the total development of the property, including Willow Springs I, Willow Springs II and North Willow Springs.

We paid the cost of construction described in Section 4 to the Goleta Water District in connection with obtaining water service for Phase One of Willow Springs.

Please let me know if you have any additional questions.

Sincerely yours,

MICHAEL TOWBES

/bjr

Enclosure

cc: Lisa Prasse, Planning Manager  
Joe Pearson, Assistant Planner  
Stephanie Diaz, Contract Planner

# Coleman & Richards

A PROFESSIONAL CORPORATION  
ATTORNEYS AT LAW  
21355 PACIFIC COAST HIGHWAY, SUITE 203A  
MALIBU, CALIFORNIA 90265  
MALIBU TELEPHONE (310) 317-0228 / FACSIMILE (310) 317-4658  
EMAIL: CR4ADR@AOL.COM

APR 04 2002

RICHARD M. COLEMAN  
LAURIE J. RICHARDS

CENTURY CITY OFFICE  
(310) 277-2700

April 2, 2002

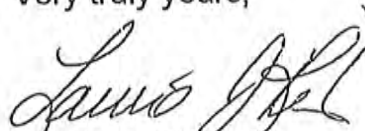
Mr. Michael Towbes, President and CEO  
The Towbes Group  
P. O. Box 20130  
Santa Barbara CA 93120-0130

Re: Los Carneros and Goleta Water District Arbitration

Dear Mr. Towbes:

Enclosed is a copy of the Judgment entered on February 25, 2002.

Very truly yours,

  
Laurie J. Richards

enclosure

cc: Stanley Properties, Inc. (w/encl)



1 RICHARD M. COLEMAN (SBN 39564)  
2 LAURIE J. RICHARDS (SBN 67274)  
3 COLEMAN & RICHARDS  
4 A Professional Corporation  
5 21355 Pacific Coast Highway, Suite 203A  
6 Malbu, California 90265  
7 (310) 317-0228

FILED  
SANTA BARBARA  
SUPERIOR COURT

FEB 26 2002

GARY M. BLAIR, EXEC. OFFICER  
By *[Signature]*  
ROSA REYES, Deputy Clerk

8 REICKER, PFAU, PYLE, McROY & HERMAN, LLP.  
9 1421 State Street, Suite B  
10 Santa Barbara, CA 93101  
11 (805) 966-2440

12 Attorneys for Claimants

13 IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA

14 COUNTY OF SANTA BARBARA

15 LOS CARNEROS COMMUNITY  
16 ASSOCIATES, INC. and LOS CARNEROS  
17 COMMUNITY ASSOCIATES, a partnership,

Case No. 232281

Petitioners

(PROPOSED) <sup>11/00</sup> JUDGMENT UPON  
ARBITRATION AWARD

18 AND

19 GOLETA WATER DISTRICT,

Respondent

20 The Court, having read and considered the Stipulation of Petitioners LOS  
21 CARNEROS COMMUNITY ASSOCIATES, INC. and LOS CARNEROS COMMUNITY  
22 ASSOCIATES, a partnership, now known as Stanley Properties, Ltd, a California  
23 corporation ("Petitioners" herein), and Respondent GOLETA WATER DISTRICT  
24 ("Respondent" herein), and good cause appearing therefor:

25 IT IS HEREBY ORDERED, ADJUDGED AND DECREED that judgment shall be

26 ///

1 entered as follows:

2       A. Judgment is awarded in favor of Petitioners and against Respondent on  
3 Petitioners' claim for declaratory relief and Respondent's claim for rescission of the Water  
4 Service and Management Agreement dated October 6, 1986, ("the 1986 Agreement"), as  
5 amended ("the 1997 Amendment") on November 17, 1997 (collectively "the WMSA")  
6 between Petitioners' predecessor(s) in interest and Respondent with respect to the  
7 unimproved real property in the County of Santa Barbara described on County Assessor's  
8 Parcel No. 35-050-24, and more particularly described on Exhibit "A" hereto and  
9 incorporated herein by this reference as though fully set forth at length [ herein referred to  
10 as "the Property."] and the Court declares:

11               1. That the WMSA shall continue in full force and effect as set forth in this  
12 Judgment for the benefit of Petitioners or their successors in interest or any successor in  
13 interest hereafter (jointly and severally referred to in this Paragraph A as "Petitioners or  
14 their successors");

15               2. That no water supply facilities (herein "Water Supply Facilities") have  
16 been or will be constructed on the Property by Petitioners or their successors, and  
17 Respondent has elected that it will issue meters for the Property when needed and that it  
18 will neither operate nor construct Water Supply Facilities for the Property, all as set forth in  
19 the 1997 Amendment, Sections 1.1 through 1.4.3;

20               3. That, pursuant to paragraph 6 of the 1986 Agreement as amended by  
21 paragraph 1 of the 1997 Amendment, at the time or times (if the Property is developed in  
22 phases), Respondent is notified by Petitioners or their successors that water meters are  
23 required to serve the Property, Respondent shall issue said water meters once Petitioners  
24 or their successors have paid the estimated cost of construction of the Water Supply  
25 Facilities as set forth below. Petitioners or their successors shall make such other  
26 payments as provided in the 1997 Amendment Section 1.4.3 and as set forth in Paragraph  
27

1 5 below.

2 4. That the Court finds that said cost of construction of the Water Supply  
3 Facilities to be \$674,758.00, which amount shall be adjusted by the percentage increase in  
4 the 20 Cities Construction Index (CCI) of the Engineering News Record (or comparable  
5 index if CCI has ceased publication) for the period commencing March 1, 2001 and ending  
6 on the most recent date the index is published prior to the date that Petitioners or their  
7 successors notify Respondent that the meters are required (herein "the Payment");

8 5. That, to the extent the projected water usage at the time or times meters  
9 requested by Petitioners or their successors cumulatively exceeds 100.89 AFY, Petitioners  
10 or their successors shall pay Respondent's then prevailing fees with respect to the meters  
11 for such excess amount.

12 6. That the Payment shall be made to Respondent at the time the meters are  
13 first required pursuant to Respondent's standard procedures.

14 B. IT IS FURTHER ORDERED, ADJUDGED AND DECREED that Judgment is  
15 awarded in favor of Respondent and against Petitioners on Petitioners' claim for damages  
16 for breach of contract.

17 C. IT IS FURTHER ORDERED, ADJUDGED AND DECREED that Petitioners are  
18 awarded the sum of \$280,000.00 as and for attorneys' fees and \$70,862.37 in costs, for a  
19 total monetary award of \$350,862.37.

20  
21 DATED: 2/15, 2002

**WILLIAM McLAFFERTY**

Judge of the Superior Court

22  
23  
24  
25  
26  
27  
28

**DESCRIPTION:**

All that certain land situated in the State of California in the unincorporated area of the County of Santa Barbara, described as follows:

**PARCEL ONE:**

That portion of Tract 13,646 being Lot 19 and the Southeasterly portion of Camino Vista, a public road, from the centerline of said public road and lying contiguous thereto; Lot 21; Lot 22; Lot 23 and the Easterly portion of Via Las Flores, a public road, from the centerline of said public road, and the Northerly portion of Hollister Avenue, a public road, from the Santa Barbara City Limits terminating at the centerline of Via Las Flores, and lying contiguous thereto; Lot 24 and the Northerly portion of Via Las Flores from the centerline of said public road terminating at the centerline of Camino Vista, and the Southeasterly portion of Camino Vista, a public road, from the centerline of said public road and lying contiguous thereto, as shown on the map of Tract No. 13,646 in the County of Santa Barbara, State of California, recorded in Book 150 at Pages 92 through 98 of Maps, in the office of the County Recorder of said County, described as follows:

Beginning at the Southeasterly corner of Tract 13,646, being also the Southeasterly corner of Lot 23, as recorded in Book 150, Page 92, et seq., of Maps, in the office of the County Recorder of said County, being the true point of beginning of the parcel described by the following fourteen (14) courses and distances:

Thence 1st, along the Northerly line of Hollister Avenue being also the Southerly line of Lot 23 as recorded in Book 150, Page 92, et seq. of Maps in the office of the County Recorder of County, South  $84^{\circ}35'52''$  West, 59.78 feet;

Thence 2nd, continuing along the Northerly line of Hollister Avenue, being also the Southerly line of Lot 23, as recorded in Book 150, Page 92, et seq. of Maps, in the office of the County Recorder of said County, South  $85^{\circ}43'22''$  West, 390.47 feet;

Thence 3rd, along the centerline of Via Las Flores, currently named Calle Koral, being also the Westerly line of Lot 23, as recorded in Book 150, Page 92, et seq. of Maps, in the office of the County Recorder of said County, North  $04^{\circ}16'38''$  West, 261.45 feet to the beginning of a tangent curve concave to the Southwest having a radius of 475.00 feet;

Continued...

EXHIBIT "A"



Thence 4th, continuing along the centerline of Via Las Flores, currently named Calle Koral, being also the Westerly line of Lot 23 and the Southwesterly line of Lot 24 as recorded in Book 150, Page 92, et seq. of Maps, in the office of the County Recorder of said County, along the arc of said curve through a central angle of  $49^{\circ}23'10''$ , an arc length of 409.43 feet;

Thence 5th, continuing along the centerline of Via Las Flores, currently named Calle Koral, being also the Southwesterly line of Lot 24 as recorded in Book 150, Page 92, et seq. of Maps, in the office of the County Recorder of said County, North  $53^{\circ}39'48''$  West, 422.79 feet;

Thence 6th, along the centerline of Camino Vista being also the Northwesterly line of Lot 24 as recorded in Book 150, Page 92, et seq. and along the Northwesterly line of Lot 19 as recorded in Book 150, Page 92, et seq. of Maps, in the office of the County Recorder of said County, North  $36^{\circ}20'12''$  East, 567.49 feet;

Thence 7th, leaving the centerline of Camino Vista, along the Northeasterly line of Lot 19 as recorded in Book 150, Page 92, et seq. of Maps, in the office of the County Recorder of said County, South  $53^{\circ}39'48''$  East 239.00 feet;

Thence 8th, along the Easterly line of Lot 19 and Lot 21 as recorded in Book 150, Page 92, et seq. of Maps, in the office of the County Recorder of said County, South  $11^{\circ}32'49''$  East 206.00 feet;

Thence 9th, along the Northeasterly line of Lot 21 as recorded in Book 150, Page 92, et seq. of Maps, in the office of the County Recorder of said County, South  $50^{\circ}35'12''$  East, 149.73 feet;

Thence 10th, along the Northwesterly line of Lot 22 as recorded in Book 150, Page 92, et seq. of Maps, in the office of the County Recorder of said County, North  $62^{\circ}40'47''$  East, 164.57 feet;

Thence 11th, along the Easterly line of Lot 22 as recorded in Book 150, Page 92, et seq. of Maps, in the office of the County Recorder of said County, North  $00^{\circ}16'03''$  West, 128.00 feet;

Thence 12th, along the Northerly line of Lot 22 as recorded in Book 150, Page 92, et seq. of Maps, in the office of the County Recorder of said County, North  $89^{\circ}43'57''$  East 165.00 feet;

Thence 13th, along the Easterly line of Lot 22 as recorded in Book 150, Page 92, et seq. of Maps, in the office of the County Recorder of said County, South  $00^{\circ}16'03''$  East, 632.64 feet;

Thence 14th, along the Easterly line of Lot 23 as recorded in Book 150 Page 92, et seq. of Maps, in the office of the County Recorder of said County, South  $00^{\circ}16'03''$  East 414.00 feet to the true point of beginning of the parcel described herein.

Said legal description was disclosed by Certificate and Declaration of Voluntary Merger recorded December 3, 1998 as Instrument No. 98-094181 of Official Records.

EXCEPTING therefrom 1/2 of any and all oil, gas and other hydrocarbon substances within and under the above described property 500 feet beneath the surface thereof, without right to drill for or mine for said oil, gas and other hydrocarbon substances from the surface of said land as reserved by Edith William Lefevre, a widow by deed recorded November 27, 1964 as Instrument No. 50017 in Book 2080, Page 976 of Official Records, Santa Barbara County, California.

Continued...

**PARCEL TWO:**

Lots 1 through 18 and Lots 20, 25, 26, 27 and 28 of Tract No. 13,646 in the County of Santa Barbara, State of California, as per map recorded in Book 150 at Pages 92 to 98 of Maps, filed in the County Recorder's office of said County.

EXCEPTING therefrom  $\frac{1}{2}$  of any and all oil, gas and other hydrocarbon substances within and under the above described property 500 feet beneath the surface thereof, without right to drill for or mine for said oil, gas and other hydrocarbon substances from the surface of said land as reserved by Edith William Lefevre, a widow by deed recorded November 27, 1964, as Instrument No. 50017 in Book 2080, Page 976 of Official Records, Santa Barbara County, California.

**PARCEL THREE:**

That portion of Calle Koral (formerly known as Via Las Flores) as described by the Summary Vacation as Resolution No. 99-36 by the Board of Supervisors of the County of Santa Barbara, State of California, recorded March 30, 1999 as Instrument No. 99-025401 of Official Records in the County Recorder's office of said County.

EXCEPTING therefrom any portion thereof lying within Parcel One hereinabove described.

ALSO EXCEPTING therefrom  $\frac{1}{2}$  of any and all oil, gas and other hydrocarbon substances within and under the above described property 500 feet beneath the surface thereof, without right to drill for or mine for said oil, gas and other hydrocarbon substances from the surface of said land as reserved by Edith William Lefevre, a widow by deed recorded November 27, 1964, as Instrument No. 50017 in Book 2080, Page 976 of Official Records, Santa Barbara County, California.



July 7, 2015 (Revised December 7<sup>th</sup>, 2015)

Mr. John McInnes  
General Manager  
Goleta Water District  
4699 Hollister Avenue  
Goleta, CA 93110-1999

RE: Water Services for Willow Springs I, Willow Springs II and Heritage Ridge  
(formerly North Willow Springs)

Dear John,

Our Heritage Ridge project application (formerly North Willow Springs) was deemed complete by the City of Goleta on October 1<sup>st</sup>, 2014 and is currently in the environmental review process. As you recall, our Judgment Upon Arbitration Award dated February 26, 2002, provides a maximum water usage of 100.89 AFY for the Willow Springs I, Willow Springs II, and Heritage Ridge properties. As you will see, the combined measured and projected use is 100.795 AFY.

In our previous correspondence we had provided projections of water use at each of these properties. To substantiate these projections, our team utilized the water usage history established since the construction of Willow Springs I and Willow Springs II to extrapolate water usage for the three projects.

The calculations for water usage for Willow Springs I, Willow Springs II and Heritage Ridge were derived from WS I and WSII actual water use data provided by Goleta Water District. GWD staff provided the WS I and WSII water usage for the years between 2007 and 2015. To capture the most current project domestic water usage patterns, our analysis used a 24 month period (January 2012 through December 2013) as the base period. Please note that this was before the current drought conditions reduced our water consumption. The water meters are categorized as either domestic, landscape or commercial meters. The domestic meters were further separated by unit types: 1BR/1BA, 2BR/1BA, 2BR/2BA, and 3BR/2BA. We believe that is important, because domestic water use varies substantially based on the type of unit, as illustrated in Chart 1.

The goal was to determine the average water consumption rate by unit type, so for example, all 1BR/1BA water usage was totaled for each month of the base period and then converted to a monthly average based on the data for the 24 month period. This was then converted to Acre Feet per Year (AFY)/month for all 32 1BR/1BA units at WS I. The total of 2.545031 AFY was divided by those 32 units, which results in an average

usage of 0.079532 AFY per 1BR/1BA unit. This method was then replicated for all the unit types.

**Chart 1**

<b>Willow Springs I – Domestic Water Use</b>				
<b>BR</b>	<b>BA</b>	<b># Units</b>	<b>Total Domestic Use (AFY)</b>	<b>Domestic Water Use Rate (AFY)/Unit</b>
1	1	32	2.545	0.079
2	1	67	7.636	0.114
2	2	80	8.820	0.110
3	2	56	9.116	0.163
<b>TOTAL</b>		<b>235</b>	<b>28.117</b>	

The common area/landscape water usage for WS I was calculated in a similar fashion. The average monthly usage from the same base period (January 2012-December 2013) was used to reach the 11.949 AFY of water usage for the 6.24 acres of landscape area exclusive of Lot 20 at WS I. (The separate meter for Lot 20 was excluded in the WS I figure because of its very low water use of 0.31AFY for the 2.37 acres.) The total water usage was then converted to the landscape water use rate of 1.923 AFY per acre.

**Chart 2**

<b>Willow Springs I – Landscape Water Use (Excludes Lot 20)</b>		
<b>Total Landscape Use (AFY)</b>	<b>Total Landscape Area (Acre)</b>	<b>Landscape Water Use Rate (AFY/Acre)</b>
11.949	6.24	1.923

The commercial water usage for WSI was calculated by using the actual annual usage from the same base period (January 2012-December 2013), and the result was 1.182 AFY.

**Chart 3**

<b>Total Commercial Use (AFY)</b>
1.182

There is insufficient water use history to utilize actual figures for WS II, but the unit types are the same as WS I, so the rates which were established for each type of unit for WS I were applied to WS II.



**Chart 4**

<b>Willow Springs II – Domestic Water Use</b>				
<b>BR</b>	<b>BA</b>	<b># Units</b>	<b>Total Domestic Use (AFY)</b>	<b>Domestic Water Use Rate (AFY)/Unit</b>
1	1	48	3.818	0.079
2	1	12	1.368	0.114
2	2	16	1.764	0.110
3	2	24	3.907	0.163
<b>TOTAL</b>		<b>100</b>	<b>10.856</b>	

The common area/landscape water usage for WS II was calculated based on the WS I figures. (Our reason for this is that the landscaping in WS II was being established in the second half of 2014, so the water use per acre would be greater during that period). The landscape water use rate for WS II of 1.923 AFY per acre results in 3.250 AFY of water usage for the 1.691 acres of landscape area at WS II.

**Chart 5**

<b>Willow Springs II – Landscape Water Use</b>		
<b>Total Landscape Use (AFY)</b>	<b>Total Landscape Area (Acre)</b>	<b>Landscape Water Use Rate (AFY/Acre)</b>
3.250	1.691	1.923*

The commercial water usage for WSII was calculated by using the actual annual usage from the base period (July 2014-June 2015), and the result was 0.321 AFY.

**Chart 6**

<b>Total Commercial Use (AFY)</b>
0.321

As with WS II, we utilized the WS I actual water usage to project water usage at Heritage Ridge. The Heritage Ridge units are smaller than the Willow Springs apartments, so we believe the water usage would be lower.

**Chart 7**

<b>Average Unit Sizes</b>				
<b>BR</b>	<b>BA</b>	<b>WS I &amp; II</b>	<b>HR – Workforce</b>	<b>HR – Seniors</b>
1	1	744 SF	684 SF	652 SF
2	1	894 SF	817 SF	835 SF
2	2	1,025 SF	847 SF	847 SF
3	2	1,197 SF	988 SF	None

The data presented in Chart 7 above demonstrates use of WS I water usage data is a very conservative approach.

There are two separate housing types at Heritage Ridge: senior and workforce. Water usage for each housing type is calculated separately, but the same rates that were established for each type of unit for WS I were applied to the workforce units at HR.

**Chart 8**

<b>Heritage Ridge – Workforce Domestic Water Use</b>				
<b>BR</b>	<b>BA</b>	<b># Units</b>	<b>Total Domestic Use (AFY)</b>	<b>Domestic Water Use Rate (AFY)/Unit</b>
1	1	149	11.850	0.079
2	1	33	3.761	0.114
2	2	22	2.425	0.110
3	2	24	3.907	0.163
<b>TOTAL</b>		<b>228</b>	<b>21.943</b>	

Senior housing by nature has a lower average occupancy than workforce housing, so there is a reduction in domestic water use. The occupant/unit ratio for WS I and WS II was populated based on actual occupancy figures from March 8, 2015 rent rolls. The average occupancy for each type of unit was as follows: 1.40 for 1BR/1BA's, 1.53 for 2BR/1BA's, 1.72 for 2BR/2BA's, and 2.36 for 3BR/2BA's.

For the purposes of this study, the WS I and WS II average occupancy was then compared to the average senior occupancy of 1.11. The figure was derived from a

study performed on August 6, 2014 analyzing occupant/unit ratios within the three senior properties in The Towbes Group portfolio. A table summarizing this study has been attached.

The ratio of 1.11 average senior occupancy was compared to each type of unit for workforce. Therefore the percentage reduction of senior average occupancy comparable to workforce is as follows: 21% for 1BR/1BA's, 27% for 2BR/1BA's, and 35% for 2BR/2BA's. The Senior Domestic Water Use Chart 6 below reflects these reductions in use.

**Chart 9**

<b>Heritage Ridge – Seniors Domestic Water Use</b>				
<b>BR</b>	<b>BA</b>	<b># Units</b>	<b>Total Domestic Use (AFY)</b>	<b>Domestic Water Use Rate (AFY)/Unit</b>
1	1	108	6.786	0.063
2	1	18	1.497	0.083
2	2	6	0.430	0.072
<b>TOTAL</b>		<b>132</b>	<b>8.713</b>	

**Chart 10**

<b>Combined Heritage Ridge Domestic Water Use</b>		
	<b>Units</b>	<b>Total Domestic Use (AFY)</b>
<b>Workforce</b>	<b>268</b>	<b>21.943</b>
<b>Seniors</b>	<b>132</b>	<b>8.713</b>
<b>Total</b>	<b>360</b>	<b>30.657</b>

The total landscape area for HR, including the 2-acre park, is approximately 7,264 acres. Landscape water was calculated by the landscape architect in a preliminary water calculation study dated September 28, 2015.

**Chart 11**

	<b>Total Landscape Use (AFY)</b>
Site Landscape & Public Park	12.540

The commercial water usage for HR was calculated by using the total actual commercial usage from WSI and WSII of 1.504 AFY, and multiplying by a factor of 360 units/335 units, or 1.0746. This gives a commercial use for HR of 1.616 AFY

**Chart 12**

<b>Total Commercial Use (AFY)</b>
1.616

The maximum water consumption available under the water services agreement for all three properties is 100.89 AFY. Based on the calculations above, the combined actual water use for WS I and projected water use for WS II and HR is 100.795 AFY. Therefore, the measured and projected use is within the allotment by 0.095 AFY.

**Chart 13**

	<b>Total Domestic Use (AFY)</b>	<b>Total Landscape Use (AFY)</b>	<b>Total Commercial Use (AFY)</b>	<b>Total Water Use (AFY)</b>
<b>Willow Springs I</b>	28.117	11.949	1.182	41.248
<b>Willow Springs II</b>	10.856	3.250	0.321	14.427
<b>Lot 20</b>	N/A	0.308	N/A	0.308
<b>Heritage Ridge</b>	30.657	12.540*	1.616*	44.812
<b>TOTAL</b>	69.630	28.047*	3.119*	100.795*

*\*Includes site landscape and 2 acre Public Park*

235 units (WS I) + 100 units (WS II) + 360 units (HR) = 695 TOTAL units  
100.795 AFY / 695 units = 0.145 AFY/Unit. As further confirmation of the validity of this estimate, the overall figure of 0.145 AFY/Unit is consistent with the Multi-Family Residential Water Demand Factor Update Report (Oct. 2009) Appendix A – Range between MFR 1-4 and MFR 5+ prepared by the City of Santa Barbara, copy enclosed. This October 2009 study was done before all of the current water conservation measures, and thus included much higher usage rates than today's current usage rates.

I am confident that our approach is sound and the most suitable method for determining water usage for the three projects. The analysis clearly demonstrates current and future developments will remain within the arbitration allotment. I would like to meet with you to discuss these matters and to get your concurrence prior to submitting a formal application for water service. If we are in agreement that the study provided is accurate, this will streamline the environmental review process for our Heritage Ridge project and supply the framework for our forthcoming water service application.

I look forward to hearing from you.

Sincerely yours,



Dale W. Weber, P.E.  
MAC Design Associates

Enclosures

- Total Water Use Calculation Sheet
- Water Use Analysis Report

cc: Michael Towbes, The Towbes Group  
Craig Minus, The Towbes Group  
Linda Blackburn, The Towbes Group

**Appendix K**

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*Goleta Water District Preliminary Conditions Letter*





4699 HOLLISTER AVENUE  
GOLETA, CALIFORNIA 93110-1999  
TELEPHONE 805/964-6761  
FAX 805/964-7002

## PRELIMINARY CONDITIONS LETTER

December 16, 2015

Heritage Ridge, L.P.  
Michael Towbes Construction & Development  
c/o The Towbes Group, Inc.  
Attn: Michael Towbes, General Partner  
21 E. Victoria St. #200  
Santa Barbara, CA 93101

Re: Heritage Ridge Development (Willow Springs III)  
APN: 073-060-031 through -043  
Service Address: TBD

Dear Mr. Towbes:

The Goleta Water District (District) has reviewed the application for water service submitted for the above referenced project (Proposed Project) located at APNs 073-060-031 through -043 (Property). Based on our review, we are pleased to inform you that we have determined water service may be installed for the Proposed Project, subject to the requirements of the SAFE Water Supplies Ordinance, District Code, water availability, an existing entitlement to water as set forth in the Judgment Upon Arbitration Award filed in Santa Barbara Superior Court Case Number 232281 on February 26, 2002, and the conditions set forth below.

The Proposed Project must meet all of the conditions stated below prior to initiation of service. All checks are payable to Goleta Water District. Signed acceptance of this Preliminary Conditions Letter (PCL) must be received within thirty (30) days of the date of this letter to remain valid. If the acceptance is received within 30 days, this PCL is valid for one (1) year from the date set forth above, unless a written extension is requested and provided by the District General Manager or the General Manager determines a longer period is justified.

This PCL is not a contract. It is statement of current conditions issued in compliance with the current District rules and regulations related to the approval of an application for water service. The Proposed Project will be subject to any applicable future changes and modifications in District rules and regulations.

Water service for the Proposed Project is subject to the District Water Allocation procedures, inclusive of compliance with the SAFE Ordinance. No action is required on your part. See Attachment A for additional details.

The remainder of this letter outlines the process for receiving a Conditional Can and Will Serve Letter, Final Can and Will Serve Letter, and initiation of water service.



**To obtain a Conditional Can & Will Serve Letter:**

1. Sign and return page 5 of this PCL, the 'Applicant Acceptance of the Preliminary Conditions Letter'.
2. Provide a Plan Check deposit in the amount of \$1,200.00 along with design plans and hydraulic calculations for any required Water System Improvements, hydrant installations, main abandonment and extensions, appurtenances and dedication of any necessary easements in accordance with the District Standards & Specifications. Final plans are required prior to issuance of a Conditional Can and Will Serve Letter. See Attachment C for details.

The Project involves abandonment and relocation of a District 20-inch water main line located in the Los Carneros Road easement. If any District easements for the line being abandoned are determined to exist, quitclaims for them must be provided to the District for consideration by the Board of Directors.

3. Upon completion of plan review, provide an Engineer's itemized cost estimate for the public Water System Improvements which are to be constructed by the Applicant's contractor and dedicated to the District. This information will be used by the District to determine the Surety and Inspection deposit amounts, which will be required prior to issuance of a Final Can & Will Serve Letter. See Attachments B and C for details.

**To obtain a Final Can & Will Serve Letter, meet conditions 1 through 3 stated above, and:**

4. Provide a copy of the Land Use approval for the Proposed Project including Conditions of Approval from City of Goleta Planning and Environmental Services Department.
5. Provide a copy of the final building permit from the City of Goleta Building Department.
6. Provide new addressing documentation from the County of Santa Barbara Fire Department.
7. Pay all fees and charges incurred as part of application approval including any balances due from Plan Check review.
8. Provide a Water System Improvements deposit for District construction of the main extensions, fire hydrants, meter installations, and service lines. See Attachments B and C for details.
9. Provide any Surety and Inspection deposit amounts determined during the Plan Check Review or Conditional Can and Will Serve Letter for the Applicant's construction of the main extensions. See Attachments B and C for details.
10. A Private Fire Line Service Agreement between the Property owner and Fire Line Service provider must be approved by the District, executed, and recorded against the parcels being created. The agreement must clearly identify the party who will be required through the agreement to be responsible for the



maintenance of and on-going payment for the fire line (i.e., HOA or Property Owner's Association). A copy of the recorded document must be presented to the District prior to completing Plan Check.

**To have water service activated, meet conditions 1 through 10 stated above, and:**

11. Construct Water System Improvements and install approved backflow assemblies. The location of all backflow assemblies must be approved by the District Cross Connection Specialist prior to installation. Backflow assemblies must be installed, inspected, and tested prior to any onsite work including demolition, grading, and construction. See Attachments C for details.
12. Obtain District field acceptance of the completed Water System Improvement, District approval of record drawings, and District dedication acceptance of water facilities to be activated as part of the District public water system.

If the Proposed Project, related data, or other information changes during the course of the City of Goleta review or otherwise, these conditions, including the New Water Supply Charge, the number of meters, connections, service line sizes, fees, and agreements indicated may be revised. In addition, changes to the applicable rules and regulations of the District may affect the Proposed Project.


Please note that all fees, rates, and charges are subject to amendment by the District Board of Directors. Pursuant to Government Code Section 66020(d)(1) the 90 day period to protest the amount of any New Water Supply Charge fees assessed against the Proposed Project in this PCL has begun. If you wish to protest the amount of the New Water Supply Charges, such protest must be filed within 90 days of the issuance of this PCL as an appeal to the Board of Directors under Goleta Water District Section 8.30.010.

By signing below as the Applicant, you acknowledge that you understand and agree to comply with all federal, state, and local laws and regulations applicable to the Proposed Project.

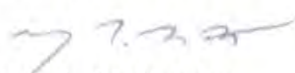
This letter constitutes the final determination of the General Manager. You have the right to appeal the determination of the General Manager, pursuant to Chapter 8.30 of the District Code.

Please provide a copy of this letter to the engineer, contractor, and other consultants working on the Proposed Project, and contact the District when you are prepared to begin the design of the Water System Improvements for the Proposed Project. If you have any questions regarding this matter or would like to schedule a pre-design meeting, please contact Jim Heaton at (805) 879-4652.

Sincerely,

  
John McInnes  
General Manager

Approved as to Legal Form,

  
Mary L. McMaster  
General Counsel

Heritage Ridge (Willow Springs III)  
APN:073-060-031 through -043

PRELIMINARY CONDITIONS LETTER  
December 16, 2015  
Page 4 of 14

kb/rd/jh

Attachments: Applicant Acceptance  
A - New Water Supply Charge  
B - Water System Deposits and Charges  
C - Water System Improvements

Enclosures

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**Applicant Acceptance of the Preliminary Conditions Letter**

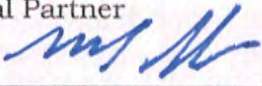
The Applicant, **Heritage Ridge, L.P.**, hereby confirms that Applicant has received a copy of and has read and understands this Preliminary Conditions Letter in its entirety, accepts the specified conditions and will abide by and carry out these conditions in good faith. The Applicants agree to provide all related project documents to any succeeding property owner.

The person signing below on behalf of the Applicant represents and warrants that they have authority to bind the Applicant and the Property to the terms of this Preliminary Conditions Letter.

Applicant Signature:

**HERITAGE RIDGE, L.P.**  
a California limited partnership

**BY: Michael Towbes Construction & Development, Inc.**  
a California corporation  
its General Partner

By:   
**Michael Towbes, President**

Date: Jan 12, 2016



**Attachment A New Water Supply Charge**

Based on review of the new potable water demand and credits for existing potable water use as outlined below, there is no New Water Supply Charge (NWSC) for the Proposed Project.

**Forecasted New Potable Water Demand**

The Proposed Project involves the development and construction of multi-family residential structures including 360 units, a community center, and a 2 acre park. Consistent with District Code Section 5.16.040(B), the District has reviewed the Annual Water Demand Report for the Heritage Ridge Project prepared by the Applicant's Engineer (MAC Design Associates) as revised December 7, 2015 (Demand Report) and has determined that new potable water service demand for the Proposed Project is estimated to be 44.812 AFY.

Total Residential Water Demand:	30.657 AFY
Total Landscape Irrigation Water Demand:	12.540 AFY
Total Commercial Water Demand:	<u>1.6160 AFY</u>
Total Water Demand:	44.812 AFY

Following receipt of a copy of the City of Goleta Building Permit, the District will review the estimated allocations and may revise the water demand estimate if there are any changes to the Proposed Project. Any additional development or changes of use, which exceed the existing water allocation on the Property will be subject to the current prohibition on approval of new water service applications.

As outlined in the Demand Report, with the addition of Heritage Ridge (Willow Springs, Phase 3), the total estimated water demand for all three phases of the Willow Springs project is 100.795 AFY.

**Credit for Existing Potable Water Use**

Credit for existing potable water use is based on the allocation of 100.89 AFY of water, as set forth in the Judgment upon Arbitration on February 26, 2002 for the entire Willow Springs project.

**SAFE Water Supplies Ordinance and Water Emergencies**

The SAFE Water Supplies Ordinance prohibits the District from approving water service for New Development, as defined under the District Code, unless specific conditions are met. Currently, those conditions are not met. In addition, the District has also declared a Stage 3 Water Shortage Emergency. Pursuant to Resolution No. 2014-32 adopted on September 9, 2014 (Resolution 14-32), the District has ceased approving applications for new or additional service connections beginning October 1, 2014.

Resolution 14-32 does not affect projects on properties that have a pre-existing water use credit sufficient for the proposed new development. The water credit available for the Proposed Project is greater than its projected demand. As a result, the Project does not require an additional SAFE allocation and is not subject to the prohibition on new water allocations set forth in Resolution 14-32. Nothing contained herein, however, prevents the District from imposing additional restrictions on water service to the Property.

**Attachment B Water System Improvements Deposit and Monthly Charges**

**Water System Improvements Deposit**

The Applicant must submit a Water System Improvements deposit for the District to perform any work summarized below and as described in detail in Attachment C. The cost estimate will be prepared during Plan Check Review for the improvements, including those identified in the table below. Pursuant to District Code Sections 6.04.020 and 6.04.040, all water main tie-ins and water meters are to be installed by the District staff. The exact deposit amount will be established in accordance with the following requirements.

**Water System Improvements to be Constructed**

The Proposed Project includes Water System Improvements that are to be constructed at Applicant's expense by either the District or the Applicant's licensed contractor as set forth in the table below. Where these improvements are located on private property, they must be located within easements and dedicated to the District. See Attachment C for details.

<b>New Water System Improvements</b>	<b>Installed By</b>
<b><i>New Water System</i></b>	
(9) Fire service meters (sizes TBD)	District
(6) 2-inch residential service meters	District
(2) 2-inch residential service meters	District
(4) 1-inch landscape irrigation meters	District
(1) 1-inch commercial service meter	District
(9) Fire service lines (sizes TBD)	Applicant
(6) 4-inch residential service lines	Applicant
(2) 2-inch residential service lines	Applicant
(4) 1-inch irrigation service lines	Applicant
(1) 1-inch commercial service line	Applicant
Install a backflow prevention assembly for all residential, commercial, irrigation and fire service meters	Applicant



<b><i>Relocation of existing 20-inch District mainline</i></b>	
Abandon existing 20-inch water line that crosses the project parcel	District
(1) 20-inch butterfly valve at new tie-in on Los Carneros Way	District
20-inch PVC waterline (on Calle Koral between Los Carneros Road and Los Carneros Way)	Applicant
(1) 20-inch butterfly valve at the connection on Los Carneros Road	Applicant
(1) 20"x20"x20" tee and (1) blind flange at connection of Calle Koral and Los Carneros Way	TBD

**Applicant Responsible for Full Cost of Project**

The District will keep a record of the labor, materials, permitting, and other costs for the District-installed specified Water System Improvements. For those Water System Improvements to be installed by the District, the Applicant will be responsible for actual costs of installation. If the costs are less than the amount deposited, then a refund will be issued to the Applicant for the difference. If the costs are greater than the amount deposited, the Applicant will be billed for the difference between the deposit and the actual costs.

The Applicant must submit a Construction Inspection Deposit and a Surety covering Performance, Labor, Materials, and Warranty for any portion of the Water System Improvements to be constructed by the Applicant, consistent with the District Standards & Specifications. The deposit will cover District-incurred costs for inspection and administration. In order to determine the required amounts, upon completion of Plan Check review, the Applicant must:

1. Submit a construction cost estimate prepared by the Project Engineer.
2. Submit a Construction Inspection Deposit (amount to be determined upon completion of plan review).
3. Submit a Surety for performance, labor, materials, and one-year warranty (per District Regulations, Title IV, Section 2.03.06) for work to be performed by Applicant.
4. Use a licensed contractor to install the new water facilities identified in the table.

The Surety must be in a form approved by the District. If the project is to be constructed and/or request water activation in phases, phased plans and sureties must be approved prior to completion of plan check review.

**Monthly Charges**

The monthly meter charge is the sum of all meters, even if the meter is redundant. This monthly charge is based on the size of the meter as determine during the Plan Check review and will commence upon installation of the meters. Charges are subject to adjustment by the District Board of Directors.

<b>Meter Type</b>	<b>Number Required</b>	<b>Meter Size</b>	<b>Current Monthly Meter Charges (per meter)</b>	<b>Total Current Monthly Charges</b>
Domestic Meters	8 (residential)	2-inch	\$198.85	\$1,590.80
Domestic Meters	1 (commercial)	1-inch	\$ 68.16	\$ 68.16
Dedicated Landscape Irrigation Meter	4	1-inch	\$68.16	\$272.64
Fire Sprinkler Line	9	TBD	\$9.44	\$84.96
<b>Total Number of Meters</b>	<b>22</b>		<b>Total Current Monthly Charge for all Meters</b>	<b>\$2,016.56</b>

A charge currently set at \$5.00 will be assessed on the bill of each customer who has a backflow prevention assembly installed to protect the potable water system. The Proposed Project requires 22 backflow devices for a total of \$110.00 per month. This charge will be assessed per backflow assembly per month and is subject to future adjustment by the Board of Directors.



### **Attachment C Water System Improvements and Easements**

For issuance of a Can & Will Serve Letter from the District, the Applicant must comply with the following Water System Improvement requirements.

Applicant must submit construction drawings and easement documents for the indicated required Water System Improvements to the District for review and approval. Prior to water service activation, the Applicant must have all Water System Improvements (including backflow prevention assemblies) constructed, installed, inspected, and tested to the satisfaction of the District. With respect to all work that the Applicant is required to perform, such work, labor, and services must be performed at the sole and exclusive cost of the Applicant. Changes in the PCL by subsequent amendment may increase costs and, to the extent that such costs are increased by subsequent requirements, such additional costs will be the sole and exclusive obligation of the Applicant.

Applicant must provide the following Water System Improvements and easements:

#### **Waterline Improvements**

- 1) Install (2) water main connections to the existing 10-inch waterline in Camino Vista and install a minimum 8-inch looped waterline along the proposed private interior street.
- 2) Install a 20-inch waterline along Calle Koral from the existing 20"x20" cross in Los Carneros Road and connect to the existing 20-inch waterline in Los Carneros Way.

Pursuant to District Code Section 6.04.020, service connections must be installed by District employees. Only authorized employees of the District are allowed to connect or disconnect the Applicant's service from the District water mains. Backflow prevention assemblies must be installed by the Applicant.

#### **Service Connections and Meter Related Improvements**

Meter-related improvements and services must be designed and installed per District Standards & Specifications and must appear on the construction drawings for the Water System Improvements.

The Applicant's licensed contractor will install the service lines and meter boxes. These service lines must be designed and installed according to the District Standards & Specifications and must appear on the construction drawings for the Water System Improvements. Traffic lids must be provided for all meter boxes subject to traffic loading. The Applicant is responsible for the installation and maintenance of the piping and plumbing connection from the downstream side (outlet) of the District meter to the subject parcel and on-site facilities.

Pursuant to District Code Section 6.04.020, service connections must be installed by District employees. Only authorized employees of the District are allowed to connect or disconnect the Applicant's service from the District water mains. Specifically, the following service connections must be constructed:



1. 20-inch water main connections, at
  - a. The existing 20"x20" cross in Los Carneros Road. Tie into the existing cross with a new 20-inch butterfly valve. And,
  - b. The existing 20-inch water line in Los Carneros Way (along Calle Koral). At the existing 20-inch waterline in Los Carneros Way, install a 20"x20"x20" tee with a 20-inch butterfly valve on the southerly side of the tee and a blind flange on the easterly side of the tee.
2. (2) 8-inch water main connections to the existing 10-inch waterline in Camino Vista (new looped 8-inch waterline).

### **Pre-Design Meeting**

The Applicant's Project Engineer is encouraged to contact the District to schedule a pre-design meeting to ensure the engineer has a thorough understanding of these requirements and the District Standards & Specifications prior to beginning design work on the Proposed Project. Computer Aided Design templates and examples are available for the Project Engineer's use upon request. The Applicant's Project Engineer should obtain the appropriate record drawings from the District of the existing water system facilities prior to beginning design work on the Proposed Project.

### **Construction of Water System Improvements**

As outlined in Attachment B of this PCL, certain Water System Improvements may be constructed by the Applicant or the District, as consistent with District Standards & Specifications. For the portion of work to be constructed by the Applicant, additional requirements will apply, including: a surety in the amount consistent with District Regulations, Title IV, Section 2.03.06, a construction inspection deposit, and a service connection deposit in amounts to be determined upon completion of final plan review.

Water activation requirements will include the Applicant submitting itemized contractual costs of major items of work, completion of formal inspection procedures, record drawings, and dedication of facilities.

### **Fire Protection Improvements**

Pursuant to the County of Santa Barbara Fire Department letter dated September 22, 2014, public, commercial fire hydrants must be installed, the number and location of which are yet to be determined. Approved fire hydrant plans must be submitted to the District. In addition, automatic interior fire sprinkler systems must be installed in all buildings. The size of fire service meters will be determined upon the submittal of hydraulic calculations by a licensed fire sprinkler contractor.

### **Backflow Prevention Improvements**

Commercial, residential, fire service and irrigation meters require reduced pressure principle backflow prevention assemblies (RPBAs) per District Standard Detail 4-01 and in accordance with District Code, and all must be shown on the submitted plans. Fire Lines require either a RPBA or a double check or a double check detector assembly (DC) or (DCDA) backflow assembly. All meter installations, backflow prevention assemblies, and on-site piping are subject to inspection and testing by District inspectors for cross connection-control and backflow prevention. All backflow



devices must be lead-free and located as close as practical to the meter. The location of all backflow assemblies must be approved by the District Cross Connection Specialist prior to installation. Backflow assemblies must be installed, inspected, and tested prior to any onsite work including demolition, grading, and construction.

### **Miscellaneous Water System Improvements**

The existing 20-inch waterline along Los Carneros will be abandoned in place between Calle Koral and the point of connection with the existing 20-inch water line in Los Carneros Road to the north. The abandoned 20-inch waterline will be cut and capped at both ends. District forces will perform the construction work necessary for the abandonment.

### **Easements**

All Water System Improvements to be dedicated to the District must be located within public right-of-way or easements dedicated to the District. If easements are required, the Property Owner must grant easements acceptable to the District for access to and maintenance of all Water System Improvements to be dedicated to the District. Easements must conform to the requirements as stated in the District Standards & Specifications. Easement documents must be based on the District easement template (available upon request) and must include descriptions for all necessary easements. The Applicant's Professional Land Surveyor or qualified Civil Engineer must submit easement documents for District review and comment. The District will notify the Applicant when the easements are acceptable for execution, notarization, and dedication.

### **Water Main Road and Easement Design Requirements**

Per District Regulations, Title 4, Section 2.01.04.N:

*District water mains on private property shall be located under paved roadways having a minimum traveled roadway width of 32 feet and shall be a minimum of 7 feet from the face of the southerly or easterly curb face or edge of pavement.*

Per District Regulations, Title 4, Section 2.01.04.O, the Applicant must provide a minimum 20-foot wide easement for all water lines. Additional easement design requirements are outlined in District Regulations, Title 4, Section 2.01.04.O as follows:

*A 20-foot wide easement shall be granted to the DISTRICT for all waterlines on private property with less than 4 feet of cover from finished grade. For waterlines with more than 4 feet of cover, 2 feet of width shall be added to the 20-foot easement for each additional one foot of cover greater than 4 feet. Waterlines shall be located 5 feet from an easement line, property line or any other right-of-way line, or 1 foot for every foot of depth whichever is greater, except where required by the DISTRICT to allow for future extension, looping or access. If the water line easement is to be combined with other utility easements, the total width of easement shall not be less than 25 feet. Easements shall also extend to include and lie a minimum of 5 feet on each side of service connections, meters, hydrants and other appurtenances.*



The applicant will prepare quitclaim deeds for consideration by the District Board of any existing District easements associated with the existing 20-inch waterline to be abandoned.

#### **Water Meter Work Order Information Spreadsheet**

A Water Meter Work Order Information Spreadsheet is required (a template is available upon request). Using this spreadsheet, please list as much requested information as possible for all of the meters to be installed for the Proposed Project. Your engineer will be able to provide some of the information. This spreadsheet must be submitted and approved by the District prior to the District signing the construction plans. All new District meters shown on the construction plans (including fire line by-pass meters) must be included on this spreadsheet.

#### **Civil Engineer and Land Surveyor**

All engineering documents, calculations, design, and construction drawings for Water System Improvements to be dedicated to the District must be prepared by or under the direction of a civil engineer registered in the State of California (Project Engineer). Landscape architects and other professionals licensed in California can perform this work in certain District-approved circumstances, consistent with the District Standards & Specifications.

All right-of-way and easement documents, calculations, and exhibits for Water System Improvements to be dedicated to the District must be prepared by or under the direction of a land surveyor registered in the State of California and approved by the District.

All above documents must be prepared in accordance with the District Standards & Specifications. All such documents submitted to the District, whether preliminary or final, must be stamped and signed by the Project Engineer or land surveyor as applicable. For more information, the District Standards & Specifications may be found on the District website or provided upon request.

#### **Hydraulic Calculations**

The Applicant's Project Engineer must submit hydraulic calculations for all waterlines, fire hydrants, and fire lines to be dedicated to the District. The hydraulic calculations must demonstrate the adequacy of the proposed Water System Improvements. Required peak flows and fire flows must be stated. The hydraulic calculations must present selected pipe sizes, and resulting flows, fire flows, pressures, and velocities in accordance with the District Standards & Specifications. If the existing District water system is unable to meet the project requirements, the Applicant is responsible to have the necessary improvements designed and constructed or determine an alternative method of fire protection acceptable to the Fire Department.

#### **Plan Check and Deposit**

The Applicant must submit one paper set plus one electronic PDF set of the "Site Installation Plan" and a Plan Check Deposit prior to the District reviewing the plans. This deposit will be used for District-incurred costs for plan check and administration.

Pursuant to the District Standards & Specifications, the Applicant will either be invoiced if the actual cost to the District exceeds the amount of the Plan Check Deposit, or will be refunded any remaining balance after District costs are deducted. A Plan Check Sheet is available upon request for the engineer's use in developing the Water System Improvement plans. The "Site Installation Plan" will go through a plan check and revisions may be required. Once the plans are acceptable to the District and all other necessary conditions are met, the District will sign the plan for construction of the public Water System Improvements.

If the project is to be constructed and/or request water activation in phases, phased plans and sureties must be approved prior to completion of plan check review.

#### **Project Engineer's Estimate**

During Plan Check review, the Applicant's Project Engineer must submit an itemized cost estimate for the public Water System Improvements detailed above which are to be completed by the Applicants Contractor and dedicated to the District. This information will be used by the District to determine the surety and construction inspection deposit amounts.

#### **Encroachment Permits and Traffic Control Plans**

The Applicant will be responsible for providing all traffic control plans and obtaining the necessary encroachment permits and approvals from the City of Goleta and any other agencies with jurisdiction. Plans and permit approvals will be required at least two weeks prior to the District scheduling work for any Water System Improvements.

#### **Contractual Cost and Dedication of Facilities**

Prior to activation of water service, the Applicant's contractor must submit an itemized cost spreadsheet indicating actual cost of major items of work and total construction cost of Water System Improvements to be dedicated to the District. Applicant must also submit a completed Dedication of Facilities Form. The District may accept the Dedication once all facilities being dedicated have passed District inspection and completed record drawings are provided. Forms will be provided by the District to the Applicant and contractor following final inspection.

#### **Record Drawings**

Following completion of construction of Water System Improvements to be dedicated to the District, Applicant must submit Record Drawings to the District for review and approval. Water service activation and the refund of any portion of the Water System Improvements will not occur until after Record Drawings are approved by the District.





4699 HOLLISTER AVENUE  
GOLETA, CALIFORNIA 93110-1999  
TELEPHONE 805/964-6761  
FAX 805/964-7002

**TECHNICAL ADDENDUM TO  
PRELIMINARY CONDITIONS LETTER  
Dated December 16, 2015**

January 18, 2016

Heritage Ridge, L.P.  
Michael Towbes Construction & Development  
c/o The Towbes Group, Inc.  
Attn: Michael Towbes, General Partner  
21 E. Victoria St. #200  
Santa Barbara, CA 93101

Re: Heritage Ridge Development (Willow Springs III)  
APN: 073-060-031 through -043  
Service Address: TBD

Dear Mr. Towbes:

The Goleta Water District (District) issued a Preliminary Conditions Letter (PCL) for the above-referenced project on December 16, 2015. While the overall project description has not changed, correction is necessary to describe the Water System Improvements and meter configuration anticipated to serve the proposed project. The final size number and location of meters will be confirmed during the District plan check review and shown on the final project plans.

The District is providing this Addendum to the PCL; it is intended to reflect these technical changes, as outlined below. This letter does not supersede any other conditions provided in the PCL. As stated in the signed PCL dated December 16, 2015, changes in the PCL by subsequent amendment may increase costs and, to the extent that such costs are increased by subsequent requirements, such additional costs will be the sole and exclusive obligation of the Applicant.

**Water System Improvements**

The table below summarizes the new Public Water System Improvements needed for this project and the party responsible for construction.

<b>New Water System Improvements</b>	<b>Installed By</b>
<b><i>New Water System</i></b>	
(10) Fire service meters. (Depending on calculations, some may be DCDAs, which would be installed by Applicant)	District
(8) 2-inch residential service meters	District
(4) 1-inch landscape irrigation meters	District
(2) 1-inch commercial service meter	District

(10) Fire service lines (sizes TBD)	Applicant
(6) 4-inch residential service lines	Applicant
(2) 2-inch residential service lines	Applicant
(4) 1-inch irrigation service lines	Applicant
(1) 2-inch commercial service line	Applicant
(1) 1-inch commercial service line	Applicant
Install a backflow prevention assembly for all residential, commercial, irrigation and fire service meters	Applicant

**Monthly Charges**

The monthly meter charge is the sum of all meters, even if the meter is redundant. This monthly charge is based on the size of the meter as determine during the Plan Check review and will commence upon installation of the meters. Charges are subject to adjustment by the District Board of Directors.

Meter Type	Number Required	Meter Size	Current Monthly Meter Charges (per meter)	Total Current Monthly Charges
Domestic Meters	8 (residential)	2-inch	\$198.85	\$1,590.80
Domestic Meters	2 (commercial)	1-inch	\$ 68.16	\$ 136.32
Landscape Irrigation Meter	4	1-inch	\$68.16	\$272.64
Fire Sprinkler Line	10	TBD	\$9.44	\$94.40
<b>Total Number of Meters</b>	<b>24</b>		<b>Total Current Monthly Charge for all Meters</b>	<b>\$2,094.16</b>

A charge currently set at \$5.00 will be assessed on the bill of each customer who has a backflow prevention assembly installed to protect the potable water system. The Proposed Project requires 24 backflow devices for a total of \$120.00 per month. This charge will be assessed per backflow assembly per month and is subject to future adjustment by the Board of Directors.

If you have any questions regarding this matter, please contact Jim Heaton at (805) 879-4652.

Sincerely,



Ryan Drake  
 Water Supply & Conservation Manager

Heritage Ridge (Willow Springs III)  
APN:073-060-031 through -043

Preliminary Conditions Letter Technical Addendum  
January 18, 2016  
Page 3 of 3

Attachments

Fully Executed PCL dated December 16, 2015

# Appendix L

Vesting Tentative Tract Maps





**LEGAL DESCRIPTION**

LOTS 1 THROUGH 13 OF TRACT NO. 13,646, IN THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 150, PAGES 92 THROUGH 98 OF MAPS IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EXCEPTING THEREFROM 1/2 OF ANY AND ALL OIL, GAS AND OTHER HYDROCARBON SUBSTANCES WITHIN AND UNDER THE ABOVE DESCRIBED PROPERTY 500 FEET BENEATH THE SURFACE THEREOF, WITHOUT RIGHT TO DRILL FOR OR MINE FOR SAID OIL, GAS AND OTHER HYDROCARBON SUBSTANCES FROM THE SURFACE OF SAID LAND AS RESERVED BY EDITH WILLIAM LEFEVRE, A WIDOW, BY DEED RECORDED NOVEMBER 27, 1964 AS INSTRUMENT NO. 50017, IN BOOK 2050, PAGE 976 OF OFFICIAL RECORDS, SANTA BARBARA COUNTY, CALIFORNIA.

**SITE INFORMATION**

OWNERS: GF FRONTIER LLC  
FLT HERITAGE RIDGE TG, LLC

APN'S: 073-060-031 THROUGH 043, ALSO INCLUDING VIA MAYA AND VIA LUISA

EXISTING LOTS 1 THROUGH 13 = 14.76 ACRES  
VIA MAYA AND VIA LUISA = 1.43 ACRES

TOTAL SITE = 16.19 ACRES

PROPOSED PARCELS:  
PARCEL A = 1.82 ACRES GROSS  
1.77 ACRES NET  
PARCEL B = 2.96 ACRES GROSS  
2.91 ACRES NET  
PARCEL C = 1.85 ACRES GROSS AND NET  
PARCEL D = 9.56 ACRES GROSS  
9.51 ACRES NET

ZONING: RM MEDIUM DENSITY RESIDENTIAL

**BENCHMARK**

THE BENCHMARK FOR THIS SURVEY IS A CHISELED SQUARE AT THE NORTHWEST CORNER OF THE HEADWALL AT THE NORTH SIDE OF HOLLISTER AVENUE. ELEVATION = 8.92'

**UTILITIES**

SEWER: GOLETA WEST SANITARY DISTRICT  
WATER: GOLETA WATER DISTRICT  
GAS: SO CAL GAS  
ELECTRIC: SO CAL EDISON  
CABLE: COX CABLE

**MAP SYMBOLS**

- WATER VALVE
- FIRE HYDRANT
- GAS VALVE OR METER
- SEWER MANHOLE OR CLEANOUT
- STORM DRAIN MANHOLE
- TRAFFIC FLOW
- DRAINAGE FLOW
- HANDICAP SPACE
- AREA LIGHT
- SIGN POST
- UTILITY POLE
- WELL
- MONUMENT
- STREET LIGHT
- WATER METER
- CATCH BASIN OR OTHER STRUCTURE AS NOTED

NOTE: ALL SYMBOLS SHOWN ABOVE MAY OR MAY NOT BE EVIDENT ON MAP.

**SURVEY NOTES**

THE FIELD SURVEY WAS PREPARED ON THE GROUND UTILIZING BOTH GPS AND A TRADITIONAL ROBOTIC TOTAL STATION.

TOPOGRAPHIC INFORMATION WITHIN THE RAILROAD RIGHT OF WAY WAS COMPILED FROM GOOGLE EARTH. THIS INFORMATION IS PROVIDED FOR PLANNING PURPOSES ONLY.

OFFSITE IMPROVEMENTS WERE PLOTTED FROM AERIAL PHOTOS.

**OWNERS STATEMENT**

I HEREBY APPLY FOR APPROVAL OF THE DIVISION OF REAL PROPERTY SHOWN ON THIS MAP AND CERTIFY THAT I AM THE LEGAL OWNER OR THE AUTHORIZED AGENT OF THE LEGAL OWNER AND THAT THE INFORMATION SHOWN HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

GF FRONTIER, LLC DATE \_\_\_\_\_

NAME PRINTED \_\_\_\_\_

ADDRESS \_\_\_\_\_

PHONE NUMBER \_\_\_\_\_

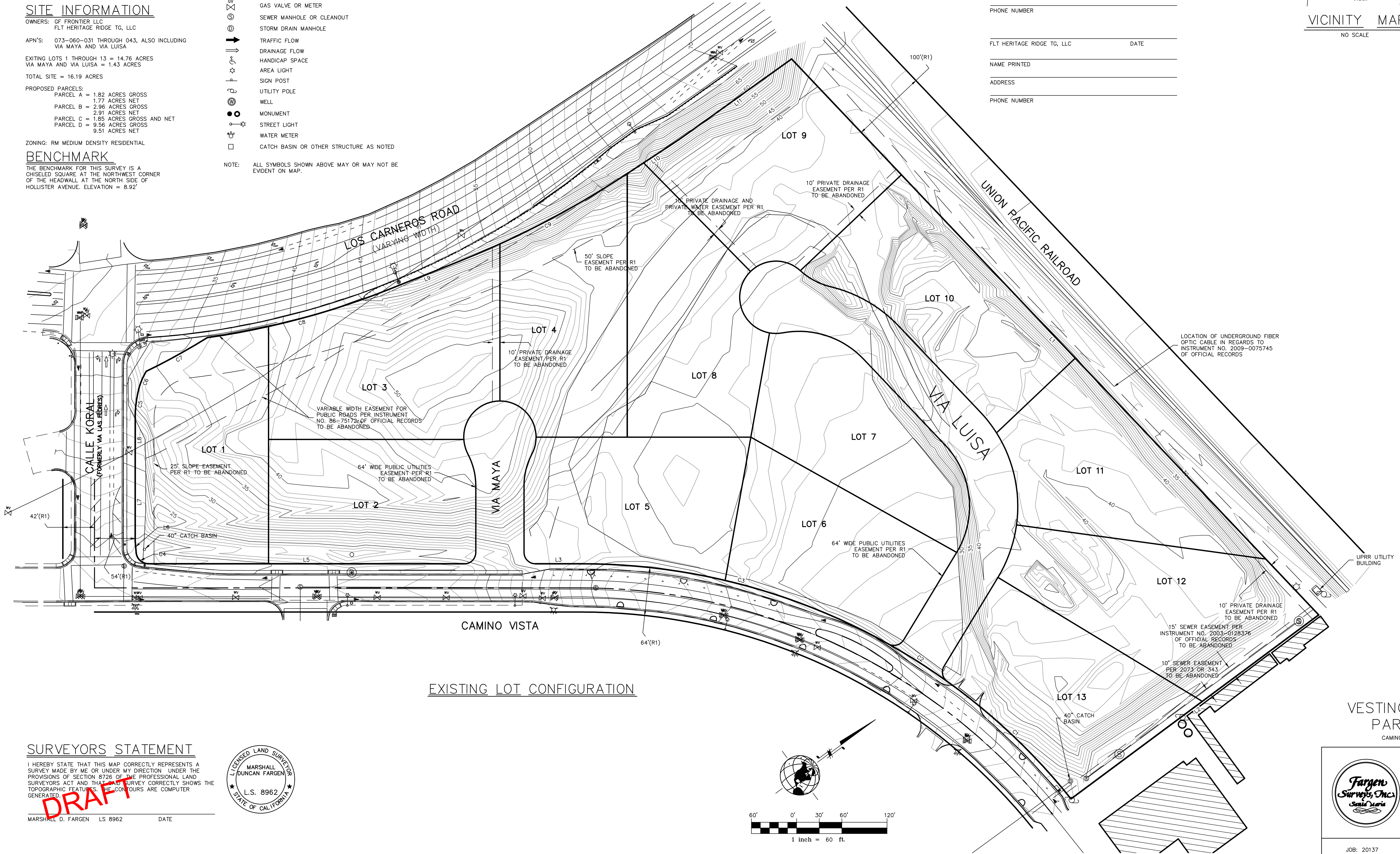
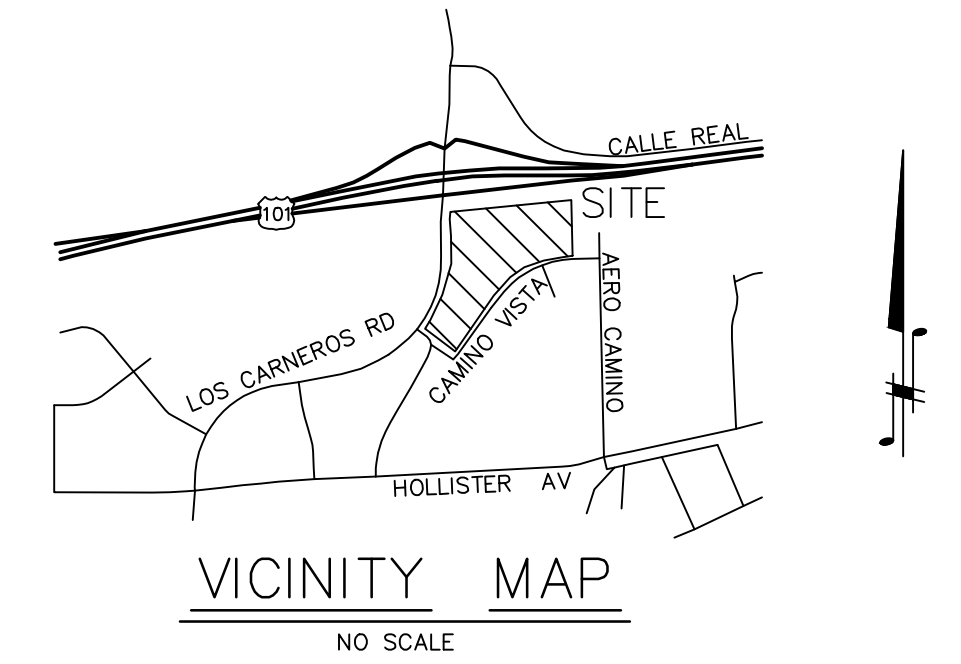
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FLT HERITAGE RIDGE TG, LLC DATE \_\_\_\_\_

NAME PRINTED \_\_\_\_\_

ADDRESS \_\_\_\_\_

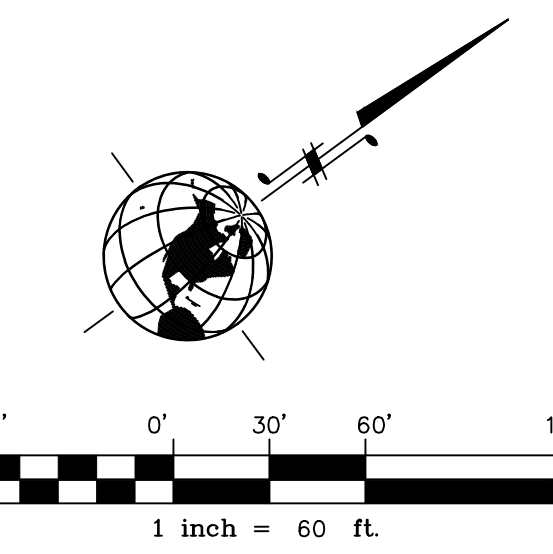
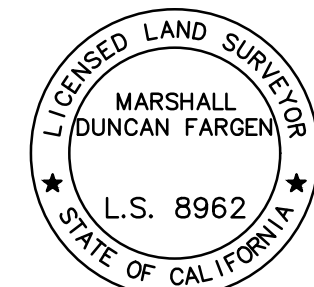
PHONE NUMBER \_\_\_\_\_



**SURVEYORS STATEMENT**

I HEREBY STATE THAT THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION UNDER THE PROVISIONS OF SECTION 8726 OF THE PROFESSIONAL LAND SURVEYORS ACT AND THAT THIS SURVEY CORRECTLY SHOWS THE TOPOGRAPHIC FEATURES. THE CONTOURS ARE COMPUTER GENERATED.

MARSHALL D. FARGEN LS 8962 DATE \_\_\_\_\_



VESTING TENTATIVE  
PARCEL MAP  
CAMINO VISTA, GOLETA, CA



2624 AIRPARK DRIVE  
SANTA MARIA, CA 93455  
PHONE: 805-934-5727  
FAX: 805-934-3448  
DATE: DECEMBER 2020

20137-TPM.DWG

JOB: 20137

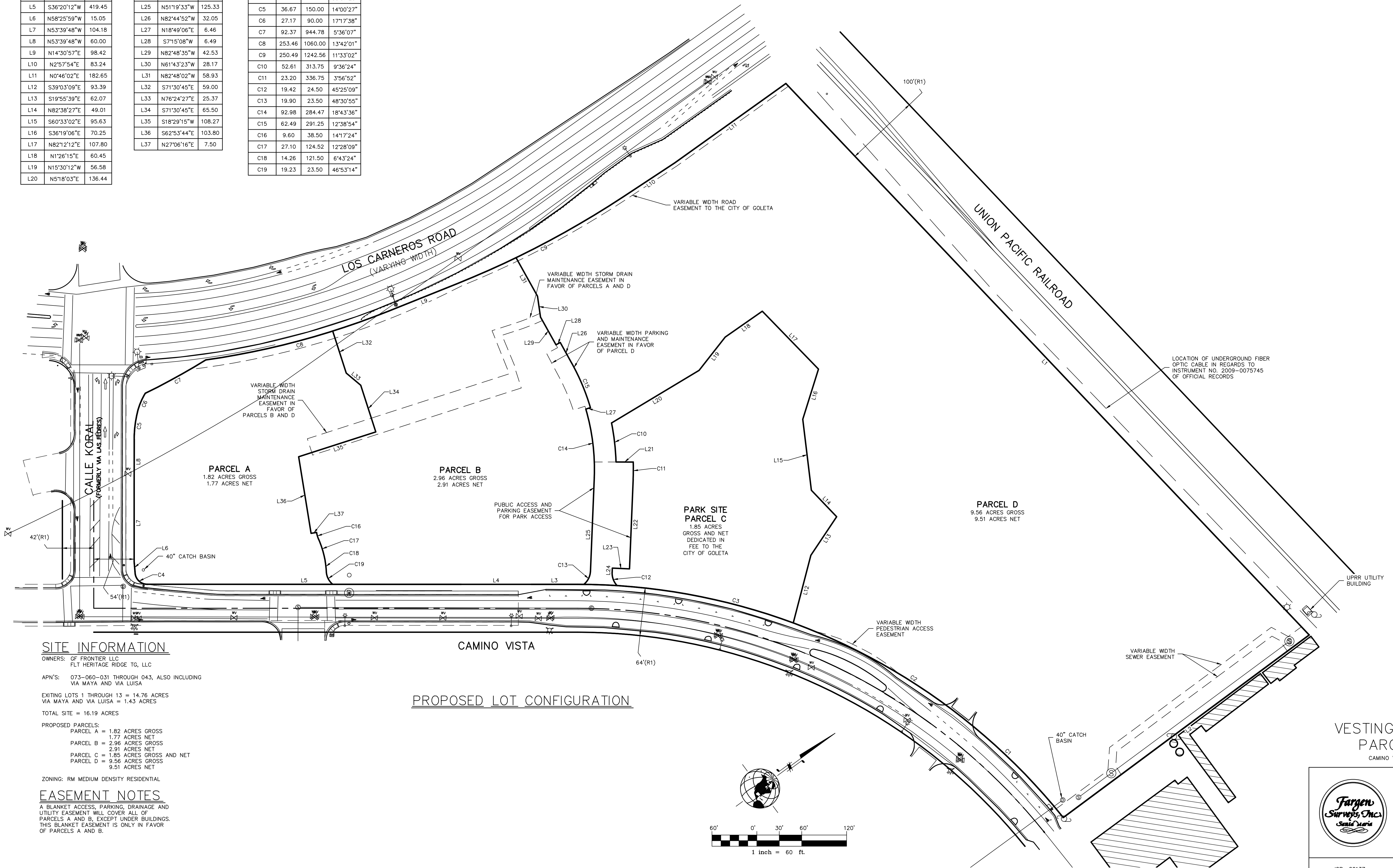
SHEET 1 OF 2



Line #	Direction	Length
L1	N82°50'39"E	1016.48
L2	S0°16'03"E	409.43
L3	N36°19'50"E	61.56
L4	N36°19'50"E	94.00
L5	S36°20'12"W	419.45
L6	N58°25'59"W	15.05
L7	N53°39'48"W	104.18
L8	N53°39'48"W	60.00
L9	N14°30'57"E	98.42
L10	N2°57'54"E	83.24
L11	N0°46'02"E	182.65
L12	S39°03'09"E	93.39
L13	S19°55'39"E	62.07
L14	N82°38'27"E	49.01
L15	S60°33'02"E	95.63
L16	S36°19'06"E	70.25
L17	N82°12'12"E	107.80
L18	N1°26'15"E	60.45
L19	N15°30'12"W	56.58
L20	N5°18'03"E	136.44

Line #	Direction	Length
L21	S36°25'31"W	22.99
L22	N51°19'33"W	119.72
L23	N38°40'27"E	22.97
L24	N51°19'33"W	5.61
L25	N51°19'33"W	125.33
L26	N82°44'52"W	32.05
L27	N18°49'06"E	6.46
L28	S7°15'08"W	6.49
L29	N82°48'35"E	42.53
L30	N61°43'23"W	28.17
L31	N82°48'02"W	58.93
L32	S71°30'45"E	59.00
L33	N76°24'27"E	25.37
L34	S71°30'45"E	65.50
L35	S18°29'15"W	108.27
L36	S62°53'44"E	103.80
L37	N27°06'16"E	7.50

Curve #	Length	Radius	Delta
C1	225.20	832.00	15°30'29"
C2	92.40	832.00	6°21'48"
C3	425.33	832.00	29°17'25"
C4	24.32	16.28	85°37'28"
C5	36.67	150.00	14°00'27"
C6	27.17	90.00	17°17'38"
C7	92.37	944.78	5°36'07"
C8	253.46	1060.00	13°42'01"
C9	250.49	1242.56	11°33'02"
C10	52.61	313.75	9°36'24"
C11	23.20	336.75	3°56'52"
C12	19.42	24.50	45°25'09"
C13	19.90	23.50	48°30'55"
C14	92.98	284.47	18°43'36"
C15	62.49	291.25	12°38'54"
C16	9.60	38.50	14°17'24"
C17	27.10	124.52	12°28'09"
C18	14.26	121.50	6°43'24"
C19	19.23	23.50	46°53'14"



**SITE INFORMATION**

OWNERS: GF FRONTIER LLC  
 FLT HERITAGE RIDGE TG, LLC

APN'S: 073-060-031 THROUGH 043, ALSO INCLUDING  
 VIA MAYA AND VIA LUISA

EXITING LOTS 1 THROUGH 13 = 14.76 ACRES  
 VIA MAYA AND VIA LUISA = 1.43 ACRES

TOTAL SITE = 16.19 ACRES

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 2.91 ACRES NET  
 PARCEL C = 1.85 ACRES GROSS AND NET  
 PARCEL D = 9.56 ACRES GROSS  
 9.51 ACRES NET

ZONING: RM MEDIUM DENSITY RESIDENTIAL

**EASEMENT NOTES**

A BLANKET ACCESS, PARKING, DRAINAGE AND  
 UTILITY EASEMENT WILL COVER ALL OF  
 PARCELS A AND B, EXCEPT UNDER BUILDINGS.  
 THIS BLANKET EASEMENT IS ONLY IN FAVOR  
 OF PARCELS A AND B.

**PROPOSED LOT CONFIGURATION**

**VESTING TENTATIVE  
 PARCEL MAP**  
 CAMINO VISTA, GOLETA, CA



2624 AIRPARK DRIVE  
 SANTA MARIA, CA 93455  
 PHONE: 805-934-5727  
 FAX: 805-934-3448  
 DATE: DECEMBER 2020

20137-TPM.DWG

JOB: 20137

SHEET 2 OF 2