APPENDIX J1: NOISE IMPACT ANALYSIS

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Bloomington Business Park Specific Plan

NOISE IMPACT ANALYSIS
COUNTY OF SAN BERNARDINO

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LIST OF ABBREVIATED TERMS

(1) Reference

ADT Average Daily Traffic

ANSI American National Standards Institute

Calveno California Vehicle Noise

CEQA California Environmental Quality Act
CNEL Community Noise Equivalent Level

dBA A-weighted decibels

EPA Environmental Protection Agency
FHWA Federal Highway Administration
FTA Federal Transit Administration

INCE Institute of Noise Control Engineering

 $\begin{array}{lll} L_{eq} & & \text{Equivalent continuous (average) sound level} \\ L_{max} & & \text{Maximum level measured over the time interval} \\ L_{min} & & \text{Minimum level measured over the time interval} \end{array}$

mph Miles per hour

OYD2 Maximum Reasonable Initial Development

OPR Office of Planning and Research
OYD1 Project Level Development

PPV Peak particle velocity

Project Bloomington Business Park Specific Plan
REMEL Reference Energy Mean Emission Level

RMS Root-mean-square

SP Specific Plan

VdB Vibration Decibels



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EXECUTIVE SUMMARY

Urban Crossroads, Inc. has prepared this noise study to determine the potential noise impacts and the necessary noise mitigation measures, if any, for the proposed Bloomington Business Park Specific Plan development ("Project"). The Project site is located south of Santa Ana Avenue, west of Linden Avenue, north of Jurupa Avenue, and east of Alder Avenue in the unincorporated area of Bloomington in the County of San Bernardino. The Project represents the redevelopment of the approximately 213-acre Specific Plan Area, which would develop up to 3,235,836 square feet (sf) of industrial uses.

The results of this Bloomington Business Park Specific Plan Noise Impact Analysis are summarized below based on the significance criteria in Section 4 of this report consistent with Appendix G of the California Environmental Quality Act (CEQA) Guidelines (1). Table ES-1 shows the findings of significance for each potential noise and/or vibration impact under CEQA.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

| Analysis | Report | Significance Findings | | |
|------------------------|---------|-------------------------|-----------------------|--|
| Analysis | Section | Unmitigated | Mitigated | |
| Off-Site Traffic Noise | 7 | Less Than Significant | - | |
| Operational Noise | 9 | Less Than Significant | - | |
| Construction Noise | 10 | Less Than Significant | - | |
| Construction Vibration | 10 | Potentially Significant | Less Than Significant | |



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1 INTRODUCTION

This noise analysis has been completed to determine the noise impacts associated with the development of Bloomington Business Park Specific Plan ("Project"). This noise study briefly describes the proposed Project, provides information regarding noise fundamentals, sets out the local regulatory setting, presents the study methods and procedures for transportation related CNEL traffic noise analysis, and evaluates the future exterior noise environment. In addition, this study includes an analysis of the potential Project-related long-term stationary-source operational noise and short-term construction noise and vibration impacts.

1.1 SITE LOCATION

The Bloomington Business Park Specific Plan Project is located south of Santa Ana Avenue, west of Linden Avenue, north of Jurupa Avenue, and east of Alder Avenue in the southern unincorporated area of Bloomington in the County of San Bernardino, as shown on Exhibit 1-A. The Specific Plan site is currently occupied by a combination of residential homes, nurseries, and a church. The Project is located adjacent to existing noise sensitive residential land use with homes located to the north, south, east, and west with industrial uses to the east.

1.2 PROJECT DESCRIPTION

The proposed Project represents the redevelopment of the approximately 213-acre Specific Plan Area, as shown on Exhibits 1-B through 1-D. The Project would develop up to 3,235,836 sf of industrial uses. To provide flexibility and ensure that the maximum impacts are disclosed, this report analyzes the following three scenarios:

- Specific Plan Development Plan (Opening Year Development Option 1 "OYD1"): The OYD1 area includes sites 1, 2, 3, and 4 and would develop up to 383,000 sf of fulfillment center (Site 1), 1,251,640 sf of high-cube warehouse (Site 2), 479,000 sf of fulfillment center (Site 3), and an ancillary truck parking area (Site 4).
- Specific Plan Development Plan (Opening Year Development Option 2 "OYD2"): The OYD2 includes sites 1, 2, 3, and 4 and would develop up to 710,400 sf of fulfillment center (Site 1), 1,251,640 sf of high-cube warehouse (Site 2), 750,000 sf of fulfillment center (Site 3), and an ancillary truck parking area (Site 4).
- Specific Plan Buildout (SP): Consists of the full buildout of the Project which includes the development of up to 598,400 sf of fulfillment center and 523,796 sf of industrial park uses.

The on-site Project-related noise sources are expected to include: loading dock activity, trailer activity, truck movements, roof-top air conditioning units, parking lot vehicle movements, and trash enclosure activity. This noise analysis is intended to describe noise level impacts associated with the expected typical operational activities at the Project site. This report assumes the Project will operate 24-hours daily for seven days per week.



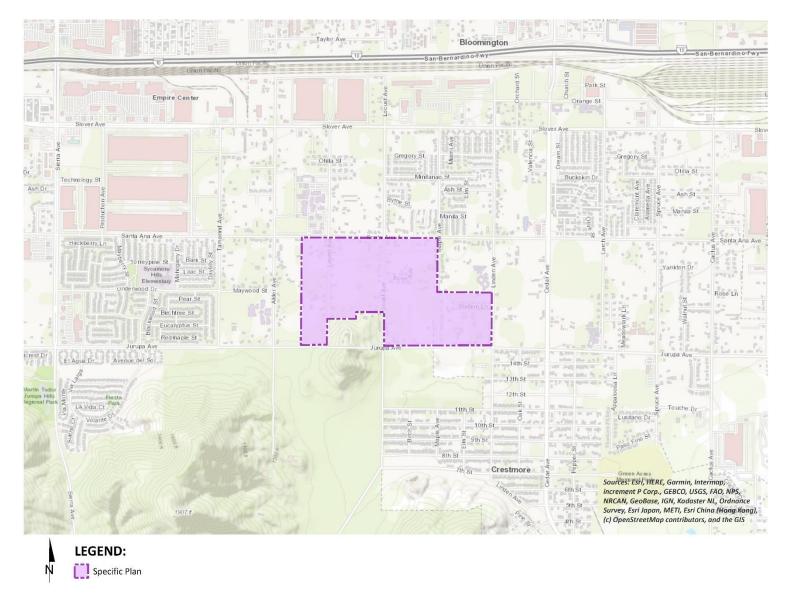


EXHIBIT 1-A: LOCATION MAP



EXHIBIT 1-B: OPENING YEAR DEVELOPMENT OPTION 1 (OYD1) SITE PLAN





EXHIBIT 1-C: OPENING YEAR DEVELOPMENT OPTION 2 (OYD2) SITE PLAN







EXHIBIT 1-D: SPECIFIC PLAN (SP) SITE PLAN



2 FUNDAMENTALS

Noise is simply defined as "unwanted sound." Sound becomes unwanted when it interferes with normal activities, when it causes actual physical harm or when it has adverse effects on health. Noise is measured on a logarithmic scale of sound pressure level known as a decibel (dB). Aweighted decibels (dBA) approximate the subjective response of the human ear to broad frequency noise source by discriminating against very low and very high frequencies of the audible spectrum. They are adjusted to reflect only those frequencies which are audible to the human ear. Exhibit 2-A presents a summary of the typical noise levels and their subjective loudness and effects that are described in more detail below.

EXHIBIT 2-A: TYPICAL NOISE LEVELS

| COMMON OUTDOOR ACTIVITIES | COMMON INDOOR ACTIVITIES | A - WEIGHTED SOUND LEVEL dBA | SUBJECTIVE LOUDNESS | EFFECTS OF NOISE | |
|--|--|---------------------------------|------------------------|------------------------|--|
| THRESHOLD OF PAIN | | 140 | | | |
| NEAR JET ENGINE | | 130 | INTOLERABLE OR | HEARING LOSS | |
| | | 120 | DEAFENING | | |
| JET FLY-OVER AT 300m (1000 ft) | ROCK BAND | 110 | | | |
| LOUD AUTO HORN | | 100 | | | |
| GAS LAWN MOWER AT 1m (3 ft) | | 90 | VERY NOISY | | |
| DIESEL TRUCK AT 15m (50 ft), at 80 km/hr (50 mph) | FOOD BLENDER AT 1m (3 ft) | 80 | | | |
| NOISY URBAN AREA, DAYTIME | VACUUM CLEANER AT 3m (10 ft) | 70 | LOUD | SPEECH INTERFERENCE | |
| HEAVY TRAFFIC AT 90m (300 ft) | NORMAL SPEECH AT 1m (3 ft) | 60 | | | |
| QUIET URBAN DAYTIME | LARGE BUSINESS OFFICE | 50 | MODERATE | SLEEP | |
| QUIET URBAN NIGHTTIME | THEATER, LARGE CONFERENCE ROOM (BACKGROUND) | 40 | | DISTURBANCE | |
| QUIET SUBURBAN NIGHTTIME | LIBRARY | 30 | | | |
| QUIET RURAL NIGHTTIME | BEDROOM AT NIGHT, CONCERT HALL (BACKGROUND) | 20 | FAINT | | |
| | BROADCAST/RECORDING STUDIO | 10 | VERY FAINT | NO EFFECT | |
| LOWEST THRESHOLD OF HUMAN HEARING | LOWEST THRESHOLD OF HUMAN HEARING | 0 | VERT FAINT | | |

Source: Environmental Protection Agency Office of Noise Abatement and Control, Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety (EPA/ONAC 550/9-74-004) March 1974.

2.1 RANGE OF NOISE

Since the range of intensities that the human ear can detect is so large, the scale frequently used to measure intensity is a scale based on multiples of 10, the logarithmic scale. The scale for measuring intensity is the decibel scale. Each interval of 10 decibels indicates a sound energy ten times greater than before, which is perceived by the human ear as being roughly twice as loud (2). The most common sounds vary between 40 dBA (very quiet) to 100 dBA (very loud). Normal conversation at three feet is roughly at 60 dBA, while loud jet engine noises equate to 110 dBA



at approximately 100 feet, which can cause serious discomfort (3). Another important aspect of noise is the duration of the sound and the way it is described and distributed in time.

2.2 Noise Descriptors

Environmental noise descriptors are generally based on averages, rather than instantaneous, noise levels. The most used figure is the equivalent level (L_{eq}). Equivalent sound levels are not measured directly but are calculated from sound pressure levels typically measured in Aweighted decibels (dBA). The equivalent sound level (L_{eq}) represents a steady state sound level containing the same total energy as a time varying signal over a given sample period (typically one hour) and is commonly used to describe the "average" noise levels within the environment.

To describe the time-varying character of environmental noise, the statistical or percentile noise descriptors L_{50} , L_{25} , L_8 and L_2 , are commonly used. The percentile noise descriptors are the noise levels equaled or exceeded during 50 percent, 25 percent, 8 percent and 2 percent of a stated time. Sound levels associated with the L_2 and L_8 typically describe transient or short-term events, while levels associated with the L_{50} describe the steady state (or median) noise conditions. The relies on the percentile noise levels to describe the stationary source noise level limits. While the L_{50} describes the noise levels occurring 50 percent of the time, the L_{eq} accounts for the total energy (average) observed for the entire hour.

Peak hour or average noise levels, while useful, do not completely describe a given noise environment, however. Noise levels lower than peak hour may be disturbing if they occur during times when quiet is most desirable, namely evening and nighttime (sleeping) hours. To account for this, the Community Noise Equivalent Level (CNEL), representing a composite 24-hour noise level is utilized. The CNEL is the weighted average of the intensity of a sound, with corrections for time of day, and averaged over 24 hours. The time-of-day corrections require the addition of 5 decibels to dBA L_{eq} sound levels in the evening from 7:00 p.m. to 10:00 p.m., and the addition of 10 decibels to dBA L_{eq} sound levels at night between 10:00 p.m. and 7:00 a.m. These additions are made to account for the noise sensitive time periods during the evening and night hours when sound appears louder. CNEL does not represent the actual sound level heard at any time, but rather represents the total sound exposure. The County of San Bernardino relies on the 24-hour CNEL level to assess land use compatibility with transportation related noise sources.

2.3 SOUND PROPAGATION

When sound propagates over a distance, it changes in level and frequency content. Based on guidance from the U.S. Department of Transportation, Federal Highway Administration (FHWA), Office of Environment and Planning, Noise and Air Quality Branch, the way noise reduces with distance depends on the following factors.

2.3.1 GEOMETRIC SPREADING

Sound from a localized source (i.e., a stationary point source) propagates uniformly outward in a spherical pattern. The sound level attenuates (or decreases) at a rate of 6 dB for each doubling of distance from a point source. Highways consist of several localized noise sources on a defined



path and hence can be treated as a line source, which approximates the effect of several point sources. Noise from a line source propagates outward in a cylindrical pattern, often referred to as cylindrical spreading. Sound levels attenuate at a rate of 3 dB for each doubling of distance from a line source (2).

2.3.2 GROUND ABSORPTION

The propagation path of noise from a highway to a receiver is usually very close to the ground. Noise attenuation from ground absorption and reflective wave canceling adds to the attenuation associated with geometric spreading. Traditionally, the excess attenuation has also been expressed in terms of attenuation per doubling of distance. This approximation is usually sufficiently accurate for distances of less than 200 feet. For acoustically hard sites (i.e., sites with a reflective surface between the source and the receiver, such as a parking lot or body of water), no excess ground attenuation is assumed. For acoustically absorptive or soft sites (i.e., those sites with an absorptive ground surface between the source and the receiver such as soft dirt, grass, or scattered bushes and trees), an excess ground attenuation value of 1.5 dB per doubling of distance is normally assumed. When added to the cylindrical spreading, the excess ground attenuation results in an overall drop-off rate of 4.5 dB per doubling of distance from a line source (4).

2.3.3 ATMOSPHERIC EFFECTS

Receivers located downwind from a source can be exposed to increased noise levels relative to calm conditions, whereas locations upwind can have lowered noise levels. Sound levels can be increased at large distances (e.g., more than 500 feet) due to atmospheric temperature inversion (i.e., increasing temperature with elevation). Other factors such as air temperature, humidity, and turbulence can also have significant effects (2).

2.3.4 SHIELDING

A large object or barrier in the path between a noise source and a receiver can substantially attenuate noise levels at the receiver. The amount of attenuation provided by shielding depends on the size of the object and the frequency content of the noise source. Shielding by trees and other such vegetation typically only has an "out of sight, out of mind" effect. That is, the perception of noise impact tends to decrease when vegetation blocks the line-of-sight to nearest residents. However, for vegetation to provide a substantial, or even noticeable, noise reduction, the vegetation area must be at least 15 feet in height, 100 feet wide and dense enough to completely obstruct the line-of sight between the source and the receiver. This size of vegetation may provide up to 5 dBA of noise reduction. The Federal Highway Administration (FHWA) does not consider the planting of vegetation to be a noise abatement measure (4).

2.3.5 REFLECTION

Field studies conducted by the FHWA have shown that the reflection from barriers and buildings does not substantially increase noise levels (4). If all the noise striking a structure was reflected back to a given receiving point, the increase would be theoretically limited to 3 dBA. Further, not all the acoustical energy is reflected back to same point. Some of the energy would go over the



structure, some is reflected to points other than the given receiving point, some is scattered by ground coverings (e.g., grass and other plants), and some is blocked by intervening structures and/or obstacles (e.g., the noise source itself). Additionally, some of the reflected energy is lost due to the longer path that the noise must travel. FHWA measurements made to quantify reflective increases in traffic noise have not shown an increase of greater than 1-2 dBA; an increase that is not perceptible to the average human ear.

2.4 NOISE CONTROL

Noise control is the process of obtaining an acceptable noise environment for an observation point or receiver by controlling the noise source, transmission path, receiver, or all three. This concept is known as the source-path-receiver concept. In general, noise control measures can be applied to these three elements.

2.5 Noise Barrier Attenuation

Effective noise barriers can reduce noise levels by up to 10 to 15 dBA, cutting the loudness of traffic noise in half. A noise barrier is most effective when placed close to the noise source or receiver. Noise barriers, however, do have limitations. For a noise barrier to work, it must be high enough and long enough to block the path of the noise source (4).

2.6 LAND USE COMPATIBILITY WITH NOISE

Some land uses are more tolerant of noise than others. For example, schools, hospitals, churches, and residences are more sensitive to noise intrusion than are commercial or industrial developments and related activities. As ambient noise levels affect the perceived amenity or livability of a development, so too can the mismanagement of noise impacts impair the economic health and growth potential of a community by reducing the area's desirability as a place to live, shop and work. For this reason, land use compatibility with the noise environment is an important consideration in the planning and design process. The FHWA encourages State and Local government to regulate land development in such a way that noise-sensitive land uses are either prohibited from being located adjacent to a highway, or that the developments are planned, designed, and constructed in such a way that noise impacts are minimized. (5)

2.7 COMMUNITY RESPONSE TO NOISE

Community responses to noise varies depending upon everyone's susceptibility to noise and personal attitudes about noise. Several factors are related to the level of community annoyance including:

- Fear associated with noise producing activities;
- Socio-economic status and educational level;
- Perception that those affected are being unfairly treated;
- Attitudes regarding the usefulness of the noise-producing activity;
- Belief that the noise source can be controlled.



Approximately ten percent of the population has a very low tolerance for noise and will object to any noise not of their making. Consequently, even in the quietest environment, some complaints will occur. Twenty-five percent of the population will not complain even in very severe noise environments. Thus, a variety of reactions can be expected from people exposed to any given noise environment (6). Surveys have shown that about ten percent of the people exposed to traffic noise of 60 dBA will report being highly annoyed with the noise, and each increase of one dBA is associated with approximately two percent more people being highly annoyed. When traffic noise exceeds 60 dBA or aircraft noise exceeds 55 dBA, people may begin to complain (6). Despite this variability in behavior on an individual level, the population can be expected to exhibit the following responses to changes in noise levels as shown on Exhibit 2-B. A change of 3 dBA is considered *barely perceptible*, and changes of 5 dBA are considered *readily perceptible*. (4)

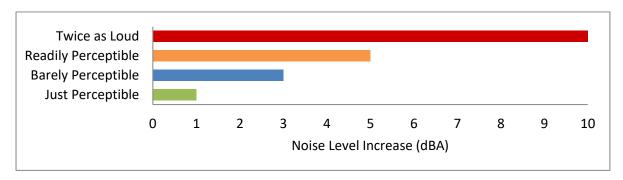


EXHIBIT 2-B: NOISE LEVEL INCREASE PERCEPTION

2.8 VIBRATION

Per the Federal Transit Administration (FTA) *Transit Noise and Vibration Impact Assessment Manual* (7), vibration is the periodic oscillation of a medium or object. The rumbling sound caused by the vibration of room surfaces is called structure-borne noise. Sources of ground-borne vibrations include natural phenomena (e.g., earthquakes, volcanic eruptions, sea waves, landslides) or human-made causes (e.g., explosions, machinery, traffic, trains, construction equipment). Vibration sources may be continuous, such as factory machinery, or transient, such as explosions. As is the case with airborne sound, ground-borne vibrations may be described by amplitude and frequency.

There are several different methods that are used to quantify vibration. The peak particle velocity (PPV) is defined as the maximum instantaneous peak of the vibration signal. The PPV is most frequently used to describe vibration impacts to buildings but is not always suitable for evaluating human response (annoyance) because it takes some time for the human body to respond to vibration signals. Instead, the human body responds to average vibration amplitude often described as the root mean square (RMS). The RMS amplitude is defined as the average of the squared amplitude of the signal and is most frequently used to describe the effect of vibration on the human body. Decibel notation (VdB) is commonly used to measure RMS. Decibel notation (VdB) serves to reduce the range of numbers used to describe human response to vibration. Typically, ground-borne vibration generated by man-made activities attenuates rapidly with



distance from the source of the vibration. Sensitive receivers for vibration include structures (especially older masonry structures), people (especially residents, the elderly, and sick), and vibration-sensitive equipment and/or activities.

The background vibration-velocity level in residential areas is generally 50 VdB. Ground-borne vibration is normally perceptible to humans at approximately 65 VdB. For most people, a vibration-velocity level of 75 VdB is the approximate dividing line between barely perceptible and distinctly perceptible levels. Typical outdoor sources of perceptible ground-borne vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If a roadway is smooth, the ground-borne vibration is rarely perceptible. The range of interest is from approximately 50 VdB, which is the typical background vibration-velocity level, to 100 VdB, which is the general threshold where minor damage can occur in fragile buildings. Exhibit 2-C illustrates common vibration sources and the human and structural response to ground-borne vibration.

Velocity Typical Sources **Human/Structural Response** Level* (50 ft from source) 100 Threshold, minor cosmetic damage Blasting from construction projects fragile buildings Bulldozers and other heavy tracked construction equipment Difficulty with tasks such as 90 reading a VDT screen Commuter rail, upper range Residential annovance, infrequent Rapid transit, upper range events (e.g. commuter rail) Commuter rail, typical Residential annoyance, frequent Bus or truck over bump events (e.g. rapid transit) Rapid transit, typical Limit for vibration sensitive equipment. Approx. threshold for Bus or truck, typical human perception of vibration 60 Typical background vibration

EXHIBIT 2-C: TYPICAL LEVELS OF GROUND-BORNE VIBRATION

* RMS Vibration Velocity Level in VdB relative to 10-6 inches/second

Source: Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual.



3 REGULATORY SETTING

To limit population exposure to physically and/or psychologically damaging as well as intrusive noise levels, the federal government, the State of California, various county governments, and most municipalities in the state have established standards and ordinances to control noise. In most areas, automobile and truck traffic is the major source of environmental noise. Traffic activity generally produces an average sound level that remains constant with time. Air and rail traffic, and commercial and industrial activities are also major sources of noise in some areas. Federal, state, and local agencies regulate different aspects of environmental noise. Federal and state agencies generally set noise standards for mobile sources such as aircraft and motor vehicles, while regulation of stationary sources is left to local agencies.

3.1 STATE OF CALIFORNIA NOISE REQUIREMENTS

The State of California regulates freeway noise, sets standards for sound transmission, provides occupational noise control criteria, identifies noise standards, and provides guidance for local land use compatibility. State law requires that each county and city adopt a General Plan that includes a Noise Element which is to be prepared per guidelines adopted by the Governor's Office of Planning and Research (OPR). (8) The purpose of the Noise and Safety Element is to *limit the exposure of the community to excessive noise levels*. In addition, the California Environmental Quality Act (CEQA) requires that all known environmental effects of a project be analyzed, including environmental noise impacts.

3.2 COUNTY OF SAN BERNARDINO COUNTYWIDE PLAN HAZARDS ELEMENT

The County of San Bernardino is committed to protecting life, property, and commerce from impacts associated with natural hazards, human-generated hazards, and increased risk due to climate change. The County also works to ensure that residents in unincorporated disadvantaged communities have a reduced risk of exposure to pollution and have equitable access to public facilities and services. Effectively reducing these risks requires the County and its partners to evaluate public safety threats, proactively plan and protect against potential hazards, and establish systems that will make the county and its people safer and more self- reliant. (9) To address noise sources found in the County of San Bernardino, the following policies have been identified in the Countywide Plan Hazards Element:

- Policy HZ-2.6: Coordination with transportation authorities. We collaborate with airport owners, FAA, Caltrans, SBCTA, SCAG, neighboring jurisdictions, and other transportation providers in the preparation and maintenance of, and updates to transportation-related plans and projects to minimize noise impacts and provide appropriate mitigation measures.
- **Policy HZ-2.7**: Truck delivery areas. We encourage truck delivery areas to be located away from residential properties and require associated noise impacts to be mitigated.
- **Policy HZ-2.8**: Proximity to noise generating uses. We limit or restrict new noise sensitive land uses in proximity to existing conforming noise generating uses and planned industrial areas.



- **Policy HZ-2.9**: Control sound at the source. We prioritize noise mitigation measures that control sound at the source before buffers, sound walls, and other perimeter measures.
- Policy HZ-2.10: Agricultural operations. We require new development adjacent to existing
 conforming agricultural operations to provide adequate buffers to reduce the exposure of
 new development to operational noise, odor, and the storage or application of pesticides or
 other hazardous materials.
- Policy HZ-3.19: Community education. We make educational materials available to the public
 in unincorporated environmental justice focus areas so that they clearly understand the
 potential for adverse pollution, noise, odor, vibration, and lighting and glare, and the effects
 of toxic materials to promote civil engagement. We require that such educational materials
 be developed in accordance with Plain Language Guidelines.

3.3 COUNTY OF SAN BERNARDINO DEVELOPMENT CODE

While the County of San Bernardino Countywide Plan Hazards Element provides guidelines and criteria to assess transportation noise on sensitive land uses, the County Code, Title 8 Development Code contains the noise level limits for mobile, stationary, and construction-related noise sources. (10)

3.3.1 Transportation Noise Standards

Section 83.01.080(d), Table 83-3, contains the County of San Bernardino's mobile noise source-related standards, shown on Exhibit 3-A. Exterior transportation (mobile) noise level standards for residential land uses in the Project study area are shown to be 60 dBA CNEL, while non-noise-sensitive land uses, such as office uses, require exterior noise levels of 65 dBA CNEL per the County's Table 83-3 mobile noise source standards.

3.3.2 OPERATIONAL NOISE STANDARDS

To analyze noise impacts originating from a designated fixed location such as the Bloomington Business Park Specific Plan Project, stationary-source (operational) noise such as the expected loading dock activity, trailer activity, truck movements, roof-top air conditioning units, parking lot vehicle movements, and trash enclosure activity are typically evaluated against standards established under a jurisdiction's Municipal Code. The County of San Bernardino County Code, Title 8 Development Code, Section 83.01.080(c) establishes the noise level standards for stationary noise sources. Since the Project's land use will potentially impact adjacent noise-sensitive uses in the Project study area, this noise study relies on the more conservative residential noise level standards to describe potential operational noise impacts.



EXHIBIT 3-A: COUNTY OF SAN BERNARDING MOBILE NOISE LEVEL STANDARDS

| Noise Standards for Adjacent Mobile Noise Sources | | | | | | |
|---|--|--------------|--------------|--|--|--|
| Land Use Ldn (or CNEL) dB(A | | | | | | |
| Categories | Uses | Interior (1) | Exterior (2) | | | |
| Residential | Single and multi-family, duplex, mobile homes | 45 | 60(3) | | | |
| Commercial | Hotel, motel, transient housing | 45 | 60(3) | | | |
| | Commercial retail, bank, restaurant | 50 | N/A | | | |
| | Office building, research and development, professional offices | 45 | 65 | | | |
| | Amphitheater, concert hall, auditorium, movie theater | 45 | N/A | | | |
| Institutional/Public | Hospital, nursing home, school classroom, religious institution, library | 45 | 65 | | | |
| Open Space | Park | N/A | 65 | | | |

Notes:

- (1) The indoor environment shall exclude bathrooms, kitchens, toilets, closets and corridors.
- (2) The outdoor environment shall be limited to:
- Hospital/office building patios
- · Hotel and motel recreation areas
- Mobile home parks
- · Multi-family private patios or balconies
- Park picnic areas
- · Private yard of single-family dwellings
- · School playgrounds
- (3) An exterior noise level of up to 65 dB(A) (or CNEL) shall be allowed provided exterior noise levels have been substantially mitigated through a reasonable application of the best available noise reduction technology, and interior noise exposure does not exceed 45 dB(A) (or CNEL) with windows and doors closed. Requiring that windows and doors remain closed to achieve an acceptable interior noise level shall necessitate the use of air conditioning or mechanical ventilation.

CNEL = (Community Noise Equivalent Level). The average equivalent A-weighted sound level during a 24-hour day, obtained after addition of approximately five decibels to sound levels in the evening from 7:00 p.m. to 10:00 p.m. and ten decibels to sound levels in the night from 10:00 p.m. to 7:00 a.m.

Source: County of San Bernardino County Code, Title 8 Development Code, Table 83-3.

For residential properties, the exterior noise level shall not exceed 55 dBA L_{eq} during the daytime hours (7:00 a.m. to 10:00 p.m.) and 45 dBA L_{eq} during the nighttime hours (10:00 p.m. to 7:00 a.m.) for both the whole hour, and for not more than 30 minutes in any hour. (10) The exterior noise level standards shall apply for a cumulative period of 30 minutes in any hour, as well as the standard plus 5 dBA cannot be exceeded for a cumulative period of more than 15 minutes in any hour, or the standard plus 10 dBA for a cumulative period of more than 5 minutes in any hour, or the standard plus 15 dBA for a cumulative period of more than 1 minute in any hour, or the standard plus 20 dBA for any period of time. Further, Section 83.01.080(e) indicates that if the existing ambient noise level already exceeds any of the exterior noise level limit categories, then the standard shall be adjusted to reflect the ambient conditions. The County of San Bernardino operational noise level standards are shown on Table 3-1 and included in Appendix 3.1.



TABLE 3-1: OPERATIONAL NOISE LEVEL STANDARDS

| | Exterior Noise Level Standards (dBA) ¹ | | | | | |
|-------------------------------------|---|------------------------------|----------------------------|---------------------------|-------------------------------|--|
| Time Period | L ₅₀ (30 mins) | L ₂₅ (15 mins) | L ₈ (5 mins) | L ₂ (1 min) | L _{max} (Anytime) | |
| Daytime (7:00 a.m. to 10:00 p.m.) | 55 | 60 | 65 | 70 | 75 | |
| Nighttime (10:00 p.m. to 7:00 a.m.) | 45 | 50 | 55 | 60 | 65 | |

 $^{^1}$ County of San Bernardino Development Code, Title 8, Section 83.01.080 (Appendix 3.1). The percent noise level is the level exceeded "n" percent of the time during the measurement period. L_{50} is the noise level exceeded 50% of the time.

The percentile noise descriptors are provided to ensure that the duration of the noise source is fully considered. However, due to the relatively constant intensity of the Project operational activities, the L_{50} or average L_{eq} noise level metrics best describe the loading dock activity, trailer activity, truck movements, roof-top air conditioning units, parking lot vehicle movements, and trash enclosure activity. In addition, the L_{eq} noise level metric accounts for noise fluctuations over time by averaging the louder and quieter events and giving more weight to the louder events. In addition, due to the mathematical relationship between the median (L_{50}) and the mean (L_{eq}), the L_{eq} will always be larger than or equal to the L_{50} . The more variable the noise becomes, the larger the L_{eq} becomes in comparison to the L_{50} . Therefore, this noise study conservatively relies on the average L_{eq} sound level limits to describe the Project operational noise levels.

3.4 Construction Noise Standards

Section 83.01.080(g)(3) of the County of San Bernardino Development Code, provided in Appendix 3.1, indicates that construction activity is considered exempt from the noise level standards between the hours of 7:00 a.m. to 7:00 p.m. except on Sundays and Federal holidays. (10) However, neither the County of San Bernardino Countywide Plan or Development Code establish numeric maximum acceptable construction source noise levels at potentially affected receivers, which would allow for a quantified determination of what CEQA constitutes a substantial temporary or periodic noise increase. Therefore, a numerical construction threshold based on Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual is used for analysis of daytime construction impacts, as discussed below.

According to the FTA, local noise ordinances are typically not very useful in evaluating construction noise. They usually relate to nuisance and hours of allowed activity, and sometimes specify limits in terms of maximum levels, but are generally not practical for assessing the impact of a construction project. Project construction noise criteria should account for the existing noise environment, the absolute noise levels during construction activities, the duration of the construction, and the adjacent land use. Due to the lack of standardized construction noise thresholds, the FTA provides guidelines that can be considered reasonable criteria for construction noise assessment. The FTA considers a daytime exterior construction noise level of 80 dBA L_{eq} as a reasonable threshold for noise sensitive residential land use. (7 p. 179).



3.5 CONSTRUCTION VIBRATION STANDARDS

The County of San Bernardino Development Code, Section 83.01.090(a) states that vibration shall be no *greater than or equal to two-tenths inches per second measured at or beyond the lot line*. (10) Therefore, to determine if the vibration levels due to the operation and construction of the Project, the peak particle velocity (PPV) vibration level standard of 0.2 inches per second is used.



4 SIGNIFICANCE CRITERIA

The following significance criteria are based on currently adopted guidance provided by Appendix G of the California Environmental Quality Act (CEQA) Guidelines. (8) For the purposes of this report, impacts would be potentially significant if the Project results in or causes:

- A. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?
- B. Generation of excessive ground-borne vibration or ground-borne noise levels?
- C. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

While the County of San Bernardino Countywide Plan provides direction on noise compatibility and establish noise standards by land use type that are sufficient to assess the significance of noise impacts, they do not define the levels at which increases are considered substantial for use under Guideline A. CEQA Appendix G Guideline C applies to nearby public and private airports, if any, and the Project's land use compatibility.

4.1 CEQA GUIDELINES NOT FURTHER ANALYZED

The Project site is not located within two miles of a public airport or within an airport land use plan. The closest airport is the Flabob Airport located approximately 4 miles south of the Project site. As such, the Project site would not be exposed to excessive noise levels from airport operations, and therefore, impacts are considered *less than significant*, and no further noise analysis is conducted in relation to Guideline C.

4.2 Noise-Sensitive Receivers

Noise level increases resulting from the Project are evaluated based on the Appendix G CEQA Guidelines described above at the closest sensitive receiver locations. Under CEQA, consideration must be given to the magnitude of the increase, the existing ambient noise levels, and the location of noise-sensitive receivers to determine if a noise increase represents a significant adverse environmental impact. This approach recognizes that there is no single noise increase that renders the noise impact significant. (11)

Unfortunately, there is no completely satisfactory way to measure the subjective effects of noise or of the corresponding human reactions of annoyance and dissatisfaction. This is primarily because of the wide variation in individual thresholds of annoyance and differing individual experiences with noise. Thus, an important way of determining a person's subjective reaction to a new noise is the comparison of it to the existing environment to which one has adapted—the so-called *ambient* environment. In general, the more a new noise exceeds the previously existing ambient noise level, the less acceptable the new noise will typically be judged. The Federal Interagency Committee on Noise (FICON) (12) developed guidance to be used for the assessment



of project-generated increases in noise levels that consider the ambient noise level. The FICON recommendations are based on studies that relate aircraft noise levels to the percentage of persons highly annoyed by aircraft noise. Although the FICON recommendations were specifically developed to assess aircraft noise impacts, these recommendations are often used in environmental noise impact assessments involving the use of cumulative noise exposure metrics, such as the average-daily noise level (CNEL) and equivalent continuous noise level (Leq).

As previously stated, the approach used in this noise study recognizes that there is no single noise increase that renders the noise impact significant, based on a 2008 California Court of Appeal ruling on Gray v. County of Madera. (11) For example, if the ambient noise environment is quiet (<60 dBA) and the new noise source greatly increases the noise levels, an impact may occur if the noise criteria may be exceeded. Therefore, for this analysis, FICON identifies a readily perceptible 5 dBA or greater project-related noise level increase is considered a significant impact when the noise criteria for a given land use is exceeded. Per the FICON, in areas where the without project noise levels range from 60 to 65 dBA, a 3 dBA barely perceptible noise level increase appears to be appropriate for most people. When the without project noise levels already exceed 65 dBA, any increase in community noise louder than 1.5 dBA or greater is considered a significant impact if the noise criteria for a given land use is exceeded, since it likely contributes to an existing noise exposure exceedance.

The FICON guidance provides an established source of criteria to assess the impacts of substantial temporary or permanent increase in ambient noise levels. Based on the FICON criteria, the amount to which a given noise level increase is considered acceptable is reduced when the without Project noise levels are already shown to exceed certain land-use specific exterior noise level criteria. The specific levels are based on typical responses to noise level increases of 5 dBA or *readily perceptible*, 3 dBA or *barely perceptible*, and 1.5 dBA depending on the underlying without Project noise levels for noise-sensitive uses. These levels of increases and their perceived acceptance are consistent with guidance provided by both the Federal Highway Administration (4 p. 9) and Caltrans (13 p. 2 48).



4.3 SIGNIFICANCE CRITERIA SUMMARY

Noise impacts shall be considered significant if any of the following occur as a direct result of the proposed Project. Table 4-1 shows the significance criteria summary matrix.

TABLE 4-1: SIGNIFICANCE CRITERIA SUMMARY

| An about | Land Har | Condition(s) | Significan | ce Criteria | |
|--------------|----------------------------------|---|---|------------------------|--|
| Analysis | Land Use | Condition(s) | Daytime | Nighttime | |
| | | if ambient is < 60 dBA CNEL | ≥ 5 dBA CNEL P | Project increase | |
| Off-Site | Noise- Sensitive ¹ | if ambient is 60 - 65 dBA CNEL | ≥ 3 dBA CNEL P | roject increase | |
| | Sensitive | if ambient is > 65 dBA CNEL | ≥ 1.5 dBA CNEL | Project increase | |
| | Residential | Exterior Noise Level Limit ² | 55 dBA L _{eq} | 45 dBA L _{eq} | |
| Operational | | if ambient is < 60 dBA L _{eq} | ≥ 5 dBA L _{eq} Project increase | | |
| Operational | Noise- Sensitive ¹ | if ambient is 60 - 65 dBA L _{eq} | ≥ 3 dBA L _{eq} Pr | oject increase | |
| | Sensitive | if ambient is > 65 dBA L _{eq} | \geq 1.5 dBA L _{eq} Project increase | | |
| Construction | Noise- | Permitted between 7:00 a.i and Fede | m. to 7:00 p.m.; exe eral holidays. ³ | cept Sundays | |
| Construction | Sensitive | Noise Level Threshold⁴ | 80 dBA L _{eq} | n/a | |
| | | Vibration Level Threshold⁵ | 0.2 PPV in/sec | n/a | |

¹ FICON, 1992.



² County of San Bernardino Development Code, Title 8, Section 83.01.080 (Appendix 3.1)

³ Section 83.01.080(g)(3) of the County of San Bernardino County Code.

⁴ Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual.

 $^{^{\}rm 5}$ Section 83.01.090(a) of the County of San Bernardino County Code.

[&]quot;Daytime" = 7:00 a.m. to 10:00 p.m.; "Nighttime" = 10:00 p.m. to 7:00 a.m. "n/a" = construction activities are not planned during the nighttime hours; "PPV" = peak particle velocity.

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5 EXISTING NOISE LEVEL MEASUREMENTS

To assess the existing noise level environment, 24-hour noise level measurements were taken at 14 locations in the Project study area. The receiver locations were selected to describe and document the existing noise environment within the Project study area. Exhibits 5-A through 5-C provide the boundaries of the Project study areas and the noise level measurement locations. To fully describe the existing noise conditions, noise level measurements were collected by Urban Crossroads, Inc. on Thursday, February 18, 2021 and Wednesday, April 28, 2021. Appendix 5.1 includes study area photos.

5.1 MEASUREMENT PROCEDURE AND CRITERIA

To describe the existing noise environment, the hourly noise levels were measured during typical weekday conditions over a 24-hour period. By collecting individual hourly noise level measurements, it is possible to describe the daytime and nighttime hourly noise levels and calculate the 24-hour CNEL. The long-term noise readings were recorded using Piccolo Type 2 integrating sound level meter and dataloggers. The Piccolo sound level meters were calibrated using a Larson-Davis calibrator, Model CAL 150. All noise meters were programmed in "slow" mode to record noise levels in "A" weighted form. The sound level meters and microphones were equipped with a windscreen during all measurements. All noise level measurement equipment satisfies the American National Standards Institute (ANSI) standard specifications for sound level meters ANSI S1.4-2014/IEC 61672-1:2013. (14)

5.2 Noise Measurement Locations

The long-term noise level measurements were positioned as close to the nearest sensitive receiver locations as possible to assess the existing ambient hourly noise levels surrounding the Project sites. Both Caltrans and the FTA recognize that it is not reasonable to collect noise level measurements that can fully represent every part of a private yard, patio, deck, or balcony normally used for human activity when estimating impacts for new development projects. This is demonstrated in the Caltrans general site location guidelines which indicate that, sites must be free of noise contamination by sources other than sources of interest. Avoid sites located near sources such as barking dogs, lawnmowers, pool pumps, and air conditioners unless it is the express intent of the analyst to measure these sources. (2) Further, FTA guidance states, that it is not necessary nor recommended that existing noise exposure be determined by measuring at every noise-sensitive location in the project area. Rather, the recommended approach is to characterize the noise environment for clusters of sites based on measurements or estimates at representative locations in the community. (7)

Based on recommendations of Caltrans and the FTA, it is not necessary to collect measurements at each individual building or residence, because each receiver measurement represents a group of buildings that share acoustical equivalence. (7) In other words, the area represented by the receiver shares similar shielding, terrain, and geometric relationship to the reference noise source. Receivers represent a location of noise sensitive areas and are used to estimate the future noise level impacts. Collecting reference ambient noise level measurements at the nearby



sensitive receiver locations allows for a comparison of the before and after Project noise levels and is necessary to assess potential noise impacts due to the Project's contribution to the ambient noise levels.

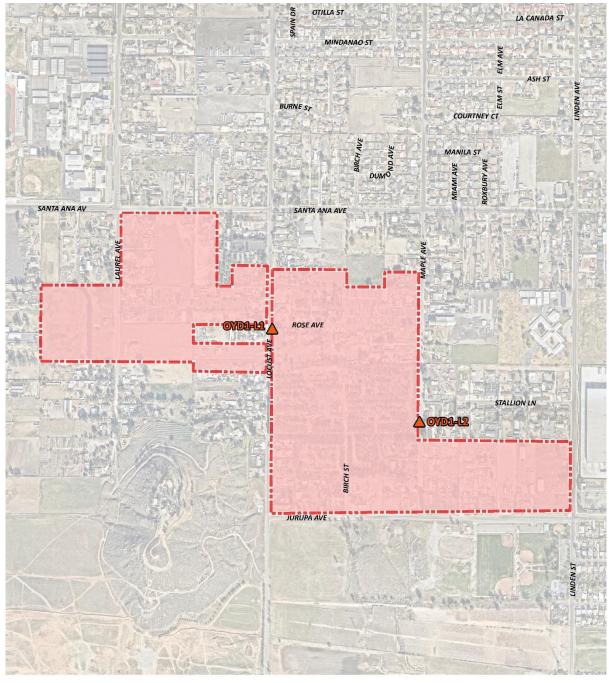


EXHIBIT 5-A: OYD1 NOISE MEASUREMENT LOCATIONS





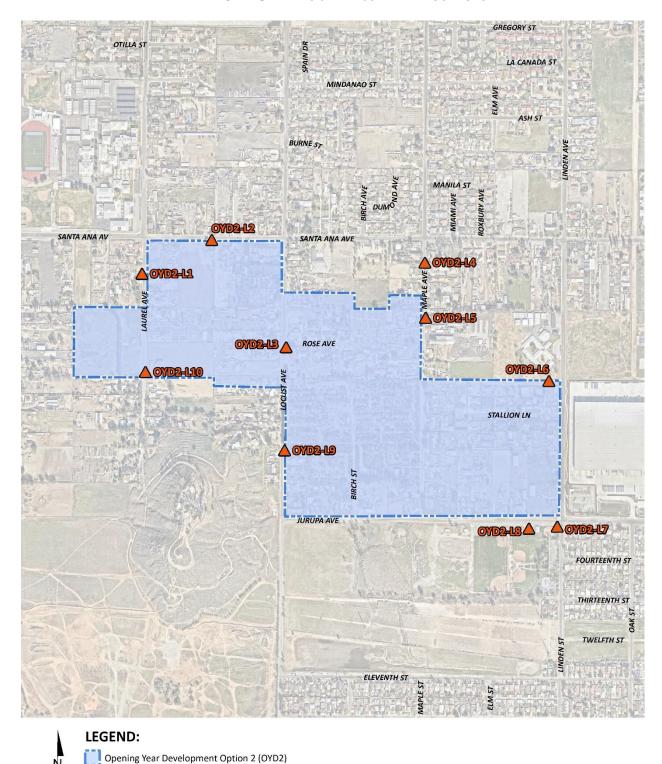


EXHIBIT 5-B: OYD2 NOISE MEASUREMENT LOCATIONS



▲ Measurement Locations

GREGORY ST OTILLA ST LA CANADA ST ASH ST BURNE ST MANILA ST SANTA ANA AV ROSE AVE STALLION LN ASP-LG JURUPA AV JURUPA AVE LEGEND:

EXHIBIT 5-C: SP NOISE MEASUREMENT LOCATIONS



Specific Plan Area

Measurement Locations

5.3 Noise Measurement Results

The noise measurements presented below focus on the average or equivalent sound levels (L_{eq}). The equivalent sound level (L_{eq}) represents a steady state sound level containing the same total energy as a time varying signal over a given sample period. Table 5-1 identifies the hourly daytime (7:00 a.m. to 10:00 p.m.) and nighttime (10:00 p.m. to 7:00 a.m.) noise levels at each noise level measurement location. Appendix 5.2 provides a summary of the existing hourly ambient noise levels.

The background ambient noise levels in the Project study area are dominated by the transportation-related noise associated with surface streets in addition to background industrial land use activities. This includes the auto and heavy truck activities on study area roadway segments near the noise level measurement locations. The 24-hour existing noise level measurement results are shown on Table 5-1.



TABLE 5-1: 24-HOUR AMBIENT NOISE LEVEL MEASUREMENTS

| Location ¹ | Description | Noise | Average Level L _{eq}) ² | CNEL |
|-----------------------|--|---------|--|------|
| | | Daytime | Nighttime | |
| OLD1-L1, OLD2-L3 | Located on Rose Avenue and Locust Avenue near existing single-family residential home at 18121 Rose Avenue. | 70.6 | 67.2 | 74.5 |
| OLD1-L2 | Located on Maple Avenue near existing single-family residential home at 11181 Maple Avenue. | 60.9 | 56.3 | 64.0 |
| OLD2-L1 | Located on Laurel Avenue near existing single-family residential home at 10976 Laurel Avenue. | 58.6 | 55.2 | 62.6 |
| OLD2-L2 | Located on Santa Ana Avenue near existing single-family residential home at 18234 Santa Ana Avenue. | 62.5 | 60.2 | 67.4 |
| OLD2-L4, SP-L5 | Located on Maple Avenue near existing single-family residential home at 10940 Maple Avenue. | 58.9 | 56.4 | 63.6 |
| OLD2-L5 | Located on Santa Ana Avenue and Alder Avenue by existing single-family residential home at 10866 Alder Avenue. | 67.2 | 65.0 | 72.2 |
| OLD2-L6 | Located by Walter Zimmerman Elementary School at 11050 Linden Avenue. | 56.5 | 54.4 | 61.6 |
| OLD2-L7 | Located southeast of the Project site on Linden Avenue and Jurupa Avenue near existing single- family residential home at 18507 Jurupa Avenue. | 67.9 | 62.1 | 70.3 |
| OLD2-L8 | Located south on Jurupa Avenue by Kessler Park at 18401 Jurupa Avenue. | 59.2 | 54.5 | 62.3 |
| OLD2-L9, SP-L6 | Located on Alder Avenue near existing single-family residential home at 11223 Alder Avenue. | 57.5 | 54.7 | 62.5 |
| OLD2-L10 | Located on Laurel Avenue near existing single- family residential home at 11188 Laurel Avenue. | 55.3 | 52.5 | 59.8 |
| SP-L1 | Located near existing single-family residential home at 11178 Locust Avenue. | 71.1 | 77.6 | 83.6 |
| SP-L2 | Located on Maple Avenue near existing single-family residential home at 11007 Maple Avenue. | 60.8 | 57.0 | 65.0 |
| SP-L3 | Located on Santa Ana Avenue near existing single-family residential home at 17937 Santa Ana Avenue. | 70.1 | 64.5 | 72.7 |
| SP-L4 | Located on Santa Ana Avenue near existing family residential home at 17991 Santa Ana Avenue. | 75.0 | 73.1 | 80.1 |

¹ See Exhibits 5-A through 5-C for the noise level measurement locations.



² Energy (logarithmic) average levels. The long-term 24-hour measurement worksheets are included in Appendix 5.2.

[&]quot;Daytime" = 7:00 a.m. to 10:00 p.m.; "Nighttime" = 10:00 p.m. to 7:00 a.m.

6 TRAFFIC NOISE METHODS AND PROCEDURES

The following section outlines the methods and procedures used to model and analyze the future off-site traffic noise environment. Consistent with the *Land Use Compatibility for Community Noise Exposure*, all transportation related noise levels are presented in terms of the 24-hour CNEL's.

6.1 FHWA TRAFFIC NOISE PREDICTION MODEL

The expected roadway noise level increases from vehicular traffic were calculated by Urban Crossroads, Inc. using a computer program that replicates the Federal Highway Administration (FHWA) Traffic Noise Prediction Model- FHWA-RD-77-108. (15) The FHWA Model arrives at a predicted noise level through a series of adjustments to the Reference Energy Mean Emission Level (REMEL). In California the national REMELs are substituted with the California Vehicle Noise (Calveno) Emission Levels. (16) Adjustments are then made to the REMEL to account for: the roadway classification (e.g., collector, secondary, major or arterial), the roadway active width (i.e., the distance between the center of the outermost travel lanes on each side of the roadway), the total average daily traffic (ADT), the travel speed, the percentages of automobiles, medium trucks, and heavy trucks in the traffic volume, the roadway grade, the angle of view (e.g., whether the roadway view is blocked), the site conditions ("hard" or "soft" relates to the absorption of the ground, pavement, or landscaping), and the percentage of total ADT which flows each hour throughout a 24-hour period. Research conducted by Caltrans has shown that the use of soft site conditions is appropriate for the application of the FHWA traffic noise prediction model used in this analysis. (17)

6.1.1 OFF-SITE TRAFFIC NOISE PREDICTION MODEL INPUTS

Table 6-1 presents the roadway parameters used to assess the Project's off-site dBA CNEL transportation noise impacts. Table 6-1 identifies the five study area roadway segments, the distance from the centerline to adjacent land use based on the functional roadway classifications per the County of San Bernardino General Plan Circulation Element, and the posted vehicle speeds. The ADT volumes used in this study area presented on Table 6-2 are based on Bloomington Business Park Specific Plan Traffic Impact Analysis, prepared by Environment Planning Development (EPD) Solutions, Inc. for the following traffic scenarios under both Without and With Project conditions: Existing, Opening Year and General Plan Buildout (2040). (18)

The ADT volumes vary for each roadway segment based on the existing traffic volumes and the combination of project traffic distributions. This analysis relies on a comparative evaluation of the off-site traffic noise impacts at the boundary of the right-of-way of the receiving adjacent land use, without and with project ADT traffic volumes from the Project traffic study.



TABLE 6-1: OFF-SITE ROADWAY PARAMETERS

| ID | Roadway | Segment | Receiving Land Use ¹ | Distance from Centerline to Nearest Adjacent Land Use (Feet) ² | Posted Speed Limit (mph) ³ |
|----|---------------|-------------------|------------------------------------|--|--|
| 1 | Sierra Av. | n/o Santa Ana Av. | Sensitive | 60' | 50 |
| 2 | Cedar Av. | n/o Santa Ana Av. | Sensitive | 52' | 45 |
| 3 | Cedar Av. | n/o 7th St. | Sensitive | 52' | 45 |
| 4 | Santa Ana Av. | e/o Sierra Av. | Sensitive | 44' | 40 |
| 5 | Jurupa Av. | e/o Linden Av. | Sensitive | 52' | 40 |

¹ Based on a review of existing aerial imagery. Noise sensitive uses limited to existing residential land uses.

To quantify the off-site noise levels, the Project related truck trips were added to the heavy truck category in the FHWA noise prediction model. The addition of the Project related truck trips increases the percentage of heavy trucks in the vehicle mix. This approach recognizes that the FHWA noise prediction model is significantly influenced by the number of heavy trucks in the vehicle mix.

Table 6-3 provides the time of day (daytime, evening, and nighttime) vehicle splits. The daily Project truck trip-ends were assigned to the individual off-site study area roadway segments based on the Project truck trip distribution percentages documented in the *Traffic Impact Analysis*. Using the Project truck trips in combination with the Project trip distribution, Urban Crossroads, Inc. calculated the number of additional Project truck trips and vehicle mix percentages for each of the study area roadway segments. Table 6-4 shows the traffic flow by vehicle type (vehicle mix) used for all without Project traffic scenarios, and Tables 6-5 to 6-7 show the vehicle mixes used for the with Project traffic scenarios.

TABLE 6-2: AVERAGE DAILY TRAFFIC VOLUMES

| | Roadway | | Average Daily Traffic Volumes ¹ | | | | | | |
|----|---------------|-------------------|--|-----------------|--------------------|-----------------|---------------------------------|-----------------|--|
| ID | | Segment | Existing | | Opening Year | | General Plan Buildout (2040) | | |
| | | | Without Project | With Project | Without Project | With Project | Without Project | With Project | |
| 1 | Sierra Av. | n/o Santa Ana Av. | 28,540 | 28,707 | 29,660 | 29,827 | 48,580 | 48,747 | |
| 2 | Cedar Av. | n/o Santa Ana Av. | 19,470 | 19,641 | 23,440 | 23,611 | 26,700 | 26,871 | |
| 3 | Cedar Av. | n/o 7th St. | 20,430 | 20,551 | 24,290 | 24,411 | 44,150 | 44,271 | |
| 4 | Santa Ana Av. | e/o Sierra Av. | 7,920 | 8,087 | 8,730 | 8,897 | 20,520 | 20,687 | |
| 5 | Jurupa Av. | e/o Linden Av. | 3,490 | 3,704 | 7,530 | 7,744 | 13,600 | 13,814 | |

¹ Bloomington Business Park Specific Plan Traffic Impact Analysis, EPD Solutions, Inc.



² Distance to receiving land use is based upon the right-of-way distances.

³ Based on a review of existing aerial imagery.

TABLE 6-3: TIME OF DAY VEHICLE SPLITS

| Vehicle Type | | Time of Day Splits ¹ | | | | |
|---------------|---------|---------------------------------|-----------|------------|--|--|
| | Daytime | Evening | Nighttime | Day Splits | | |
| Autos | 77.50% | 12.90% | 9.60% | 100.00% | | |
| Medium Trucks | 84.80% | 4.90% | 10.30% | 100.00% | | |
| Heavy Trucks | 86.50% | 2.70% | 10.80% | 100.00% | | |

¹ Typical Southern California vehicle mix.

TABLE 6-4: WITHOUT PROJECT VEHICLE MIX

| Classification | | Total % Traffic Flow ¹ | | Total |
|----------------|--------|-----------------------------------|--------------|---------|
| Classification | Autos | Medium Trucks | Heavy Trucks | Total |
| All Segments | 97.42% | 1.84% | 0.74% | 100.00% |

¹ County of Riverside Office of Industrial Hygiene. Values rounded to the nearest one-hundredth.

Due to the added Project truck trips, the increase in Project traffic volumes and the distributions of trucks on the study area road segments, the percentage of autos, medium trucks and heavy trucks will vary for each of the traffic scenarios. This explains why the existing and future traffic volumes and vehicle mixes vary between seemingly identical study area roadway segments.

TABLE 6-5: EXISTING WITH PROJECT VEHICLE MIX

| | | | With Project ¹ | | | | | |
|----|--------------------|-------------------|---------------------------|------------------|-----------------|--------------------|--|--|
| ID | ID Roadway Segment | | Autos | Medium Trucks | Heavy Trucks | Total ² | | |
| 1 | Sierra Av. | n/o Santa Ana Av. | 97.43% | 1.83% | 0.74% | 100.00% | | |
| 2 | Cedar Av. | n/o Santa Ana Av. | 97.06% | 1.93% | 1.02% | 100.00% | | |
| 3 | Cedar Av. | n/o 7th St. | 97.31% | 1.86% | 0.83% | 100.00% | | |
| 4 | Santa Ana Av. | e/o Sierra Av. | 97.47% | 1.80% | 0.72% | 100.00% | | |
| 5 | Jurupa Av. | e/o Linden Av. | 95.27% | 2.33% | 2.40% | 100.00% | | |

 $^{^{\}rm 1}$ Bloomington Business Park Specific Plan Traffic Impact Analysis, EPD Solutions, Inc.



[&]quot;Daytime" = 7:00 a.m. to 7:00 p.m.; "Evening" = 7:00 p.m. to 10:00 p.m.; "Nighttime" = 10:00 p.m. to 7:00 a.m.

 $^{^{\}rm 2}$ Total of vehicle mix percentage values rounded to the nearest one-hundredth.

TABLE 6-6: OPENING YEAR WITH PROJECT VEHICLE MIX

| | | | With Project ¹ | | | | | |
|----|--------------------|-------------------|---------------------------|------------------|-----------------|--------------------|--|--|
| ID | ID Roadway Segment | | Autos | Medium Trucks | Heavy Trucks | Total ² | | |
| 1 | Sierra Av. | n/o Santa Ana Av. | 97.43% | 1.83% | 0.74% | 100.00% | | |
| 2 | Cedar Av. | n/o Santa Ana Av. | 97.12% | 1.91% | 0.97% | 100.00% | | |
| 3 | Cedar Av. | n/o 7th St. | 97.33% | 1.86% | 0.81% | 100.00% | | |
| 4 | Santa Ana Av. | e/o Sierra Av. | 97.47% | 1.81% | 0.73% | 100.00% | | |
| 5 | Jurupa Av. | e/o Linden Av. | 96.39% | 2.07% | 1.53% | 100.00% | | |

¹ Bloomington Business Park Specific Plan Traffic Impact Analysis, EPD Solutions, Inc.

TABLE 6-7: GENERAL PLAN BUILDOUT WITH PROJECT VEHICLE MIX

| | | | With Project ¹ | | | | | |
|----|---------------|-------------------|---------------------------|------------------|-----------------|--------------------|--|--|
| ID | Roadway | Segment | Autos | Medium Trucks | Heavy Trucks | Total ² | | |
| 1 | Sierra Av. | n/o Santa Ana Av. | 97.43% | 1.83% | 0.74% | 100.00% | | |
| 2 | Cedar Av. | n/o Santa Ana Av. | 97.15% | 1.90% | 0.94% | 100.00% | | |
| 3 | Cedar Av. | n/o 7th St. | 97.37% | 1.85% | 0.78% | 100.00% | | |
| 4 | Santa Ana Av. | e/o Sierra Av. | 97.44% | 1.83% | 0.73% | 100.00% | | |
| 5 | Jurupa Av. | e/o Linden Av. | 96.84% | 1.97% | 1.18% | 100.00% | | |

¹ Bloomington Business Park Specific Plan Traffic Impact Analysis, EPD Solutions, Inc.



² Total of vehicle mix percentage values rounded to the nearest one-hundredth.

² Total of vehicle mix percentage values rounded to the nearest one-hundredth.

7 OFF-SITE TRAFFIC NOISE ANALYSIS

To assess the off-site transportation CNEL noise level impacts associated with development of the proposed Project, noise contours were developed based on the Bloomington Business Park Specific Plan Traffic Impact Analysis prepared by EPD Solutions, Inc. (18) Noise contour boundaries represent the equal levels of noise exposure and are measured in CNEL from the center of the roadway.

7.1 TRAFFIC NOISE CONTOURS

Noise contours were used to assess the Project's incremental traffic-related noise impacts at land uses adjacent to roadways conveying Project traffic. The noise contours represent the distance to noise levels of a constant value and are measured from the center of the roadway for the 70, 65, and 60 dBA noise levels. The noise contours do not consider the effect of any existing noise barriers or topography that may attenuate ambient noise levels. In addition, because the noise contours reflect modeling of vehicular noise on area roadways, they appropriately do not reflect noise contributions from the surrounding stationary noise sources within the Project study area. Tables 7-1 to 7-6 present a summary of the exterior traffic noise levels for each traffic condition. Appendix 7.1 includes the traffic noise level contours worksheets for each traffic condition.

TABLE 7-1: EXISTING WITHOUT PROJECT CONTOURS

| 5 | Bood | | Adjacent Nea Existing Adja Land Use ¹ Land (dE | CNEL at Nearest | Distance to Contour from Centerline (Feet) | | |
|----|---------------|-------------------|---|--|--|-------------------|-------------------|
| ID | Road | Segment | | Adjacent Land Use (dBA) ² | 70 dBA CNEL | 65 dBA CNEL | 60 dBA CNEL |
| 1 | Sierra Av. | n/o Santa Ana Av. | Sensitive | 72.6 | 90 | 193 | 417 |
| 2 | Cedar Av. | n/o Santa Ana Av. | Sensitive | 69.9 | RW | 110 | 236 |
| 3 | Cedar Av. | n/o 7th St. | Sensitive | 70.1 | 53 | 113 | 244 |
| 4 | Santa Ana Av. | e/o Sierra Av. | Sensitive | 65.6 | RW | 48 | 104 |
| 5 | Jurupa Av. | e/o Linden Av. | Sensitive | 61.1 | RW | RW | 62 |

¹ Based on a review of existing aerial imagery. Noise sensitive uses limited to existing residential land uses.



 $^{^{2}}$ The CNEL is calculated at the boundary of the right-of-way of the receiving adjacent land use.

[&]quot;RW" = Location of the respective noise contour falls within the right-of-way of the road.

TABLE 7-2: EXISTING WITH PROJECT CONTOURS

| | | | Adjacent | CNEL at Nearest Adjacent Land Use (dBA) ² | Distance to Contour from Centerline (Feet) | | |
|----|---------------|-------------------|-----------------------------------|--|--|-------------------|-------------------|
| ID | Road | Segment | Existing Land Use ¹ | | 70 dBA CNEL | 65 dBA CNEL | 60 dBA CNEL |
| 1 | Sierra Av. | n/o Santa Ana Av. | Sensitive | 72.6 | 90 | 194 | 418 |
| 2 | Cedar Av. | n/o Santa Ana Av. | Sensitive | 70.2 | 54 | 116 | 249 |
| 3 | Cedar Av. | n/o 7th St. | Sensitive | 70.2 | 54 | 115 | 249 |
| 4 | Santa Ana Av. | e/o Sierra Av. | Sensitive | 65.6 | RW | 49 | 105 |
| 5 | Jurupa Av. | e/o Linden Av. | Sensitive | 63.1 | RW | RW | 84 |

¹ Based on a review of existing aerial imagery. Noise sensitive uses limited to existing residential land uses.

TABLE 7-3: OPENING YEAR WITHOUT PROJECT CONTOURS

| | | | Adjacent | CNEL at Nearest | Distance to Contour from Centerline (Feet) | | |
|----|---------------|--|-----------|--|--|-------------------|-------------------|
| ID | Road | Segment Existing Land Use ¹ | · · | Adjacent Land Use (dBA) ² | 70 dBA CNEL | 65 dBA CNEL | 60 dBA CNEL |
| 1 | Sierra Av. | n/o Santa Ana Av. | Sensitive | 72.8 | 92 | 199 | 428 |
| 2 | Cedar Av. | n/o Santa Ana Av. | Sensitive | 70.7 | 58 | 124 | 267 |
| 3 | Cedar Av. | n/o 7th St. | Sensitive | 70.8 | 59 | 127 | 274 |
| 4 | Santa Ana Av. | e/o Sierra Av. | Sensitive | 66.0 | RW | 51 | 111 |
| 5 | Jurupa Av. | e/o Linden Av. | Sensitive | 64.5 | RW | RW | 103 |

¹ Based on a review of existing aerial imagery. Noise sensitive uses limited to existing residential land uses.

TABLE 7-4: OPENING YEAR WITH PROJECT CONTOURS

| | | | Receiving | CNEL at | Distance to Contour from Centerline (Feet) | | |
|----|---------------|-------------------|-----------------------|--------------------------------|--|-------------------|-------------------|
| ID | Road | Segment | Land Use ¹ | Land Use (dBA) ² | 70 dBA CNEL | 65 dBA CNEL | 60 dBA CNEL |
| 1 | Sierra Av. | n/o Santa Ana Av. | Non-Sensitive | 72.8 | 92 | 199 | 429 |
| 2 | Cedar Av. | n/o Santa Ana Av. | Non-Sensitive | 71.0 | 60 | 130 | 279 |
| 3 | Cedar Av. | n/o 7th St. | Non-Sensitive | 70.9 | 60 | 129 | 278 |
| 4 | Santa Ana Av. | e/o Sierra Av. | Non-Sensitive | 66.1 | RW | 52 | 111 |
| 5 | Jurupa Av. | e/o Linden Av. | Non-Sensitive | 65.5 | RW | RW | 121 |

¹ Based on a review of existing aerial imagery. Noise sensitive uses limited to existing residential land uses.



² The CNEL is calculated at the boundary of the right-of-way of the receiving adjacent land use.

[&]quot;RW" = Location of the respective noise contour falls within the right-of-way of the road.

 $^{^{2}}$ The CNEL is calculated at the boundary of the right-of-way of the receiving adjacent land use.

[&]quot;RW" = Location of the respective noise contour falls within the right-of-way of the road.

 $^{^{\}rm 2}$ The CNEL is calculated at the boundary of the right-of-way of the receiving adjacent land use.

[&]quot;RW" = Location of the respective noise contour falls within the right-of-way of the road.

TABLE 7-5: GENERAL PLAN BUILDOUT WITHOUT PROJECT CONTOURS

| ID | D Road Segment | Receiving Land Use ¹ | CNEL at Receiving Land Use | | nce to Co enterline 65 | | |
|----|----------------|------------------------------------|----------------------------|--------------------|------------------------------|-------------|-------------|
| | | | Land Ose | (dBA) ² | dBA CNEL | dBA CNEL | dBA CNEL |
| 1 | Sierra Av. | n/o Santa Ana Av. | Non-Sensitive | 74.9 | 128 | 276 | 594 |
| 2 | Cedar Av. | n/o Santa Ana Av. | Non-Sensitive | 71.2 | 63 | 135 | 292 |
| 3 | Cedar Av. | n/o 7th St. | Non-Sensitive | 73.4 | 88 | 189 | 408 |
| 4 | Santa Ana Av. | e/o Sierra Av. | Non-Sensitive | 69.7 | 42 | 91 | 195 |
| 5 | Jurupa Av. | e/o Linden Av. | Non-Sensitive | 67.0 | RW | 71 | 153 |

¹ Based on a review of existing aerial imagery. Noise sensitive uses limited to existing residential land uses.

TABLE 7-6: GENERAL PLAN BUILDOUT WITH PROJECT CONTOURS

| | | | Receiving | CNEL at | Distance to Contour from Centerline (Feet) | | | | |
|----|---------------|-------------------|-----------------------|--------------------------------|--|-------------------|-------------------|--|--|
| ID | Road | Segment | Land Use ¹ | Land Use (dBA) ² | 70 dBA CNEL | 65 dBA CNEL | 60 dBA CNEL | | |
| 1 | Sierra Av. | n/o Santa Ana Av. | Non-Sensitive | 74.9 | 128 | 276 | 595 | | |
| 2 | Cedar Av. | n/o Santa Ana Av. | Non-Sensitive | 71.5 | 65 | 141 | 303 | | |
| 3 | Cedar Av. | n/o 7th St. | Non-Sensitive | 73.5 | 89 | 191 | 411 | | |
| 4 | Santa Ana Av. | e/o Sierra Av. | Non-Sensitive | 69.7 | 42 | 91 | 196 | | |
| 5 | Jurupa Av. | e/o Linden Av. | Non-Sensitive | 67.6 | RW | 78 | 168 | | |

¹ Based on a review of existing aerial imagery. Noise sensitive uses limited to existing residential land uses.

7.2 EXISTING PROJECT TRAFFIC NOISE LEVEL INCREASES

An analysis of existing traffic noise levels plus traffic noise generated by the proposed Project has been included in this report for informational purposes and to fully analyze all the existing traffic scenarios identified in the Bloomington Business Park Specific Plan Traffic Impact Analysis. However, the analysis of existing off-site traffic noise levels plus traffic noise generated by the proposed Project scenario will not actually occur since the Project would not be fully constructed and operational until Opening Year conditions. Table 7-1 shows the Existing without Project conditions CNEL noise levels. The Existing without Project exterior noise levels range from 61.1 to 72.6 dBA CNEL, without accounting for any noise attenuation features such as noise barriers or topography. Table 7-2 shows the Existing with Project conditions ranging from 63.1 to 72.6 dBA CNEL. Table 7-7 shows that the Project off-site traffic noise level increases range from 0.0 to 2.0 dBA CNEL on the study area roadway segments.



² The CNEL is calculated at the boundary of the right-of-way of the receiving adjacent land use.

[&]quot;RW" = Location of the respective noise contour falls within the right-of-way of the road.

² The CNEL is calculated at the boundary of the right-of-way of the receiving adjacent land use.

[&]quot;RW" = Location of the respective noise contour falls within the right-of-way of the road.

7.3 OPENING YEAR TRAFFIC NOISE LEVEL INCREASES

Table 7-3 presents the Opening Year without Project conditions CNEL noise levels. The Opening Year without Project exterior noise levels range from 64.5 to 72.8 dBA CNEL, without accounting for any noise attenuation features such as noise barriers or topography. Table 7-4 shows that the Opening Year with Project conditions will range from 65.5 to 72.8 dBA CNEL. Table 7-8 shows that the Project off-site traffic noise level increases range from 0.0 to 1.0 dBA CNEL.

7.4 GENERAL PLAN BUILDOUT 2040 TRAFFIC NOISE LEVEL INCREASES

Table 7-5 presents the General Plan Buildout 2040 without Project conditions CNEL noise levels. The General Plan Buildout 2040 without Project exterior noise levels range from 67.0 to 74.9 dBA CNEL, without accounting for any noise attenuation features such as noise barriers or topography. Table 7-6 shows that the General Plan Buildout 2040 with Project conditions range from 67.6 to 74.9 dBA CNEL. Table 7-9 shows that the Project off-site traffic noise level increases range from 0.0 to 0.6 dBA CNEL.



TABLE 7-7: EXISTING WITH PROJECT TRAFFIC NOISE LEVEL INCREASES

| ID | Road | Road Segment | | EL at Adjace nd Use (dB <i>l</i> | | Noise- Sensitive Land | Incremental Noise Level Increase Threshold ³ | | |
|----|---------------|-------------------|---------------------|-------------------------------------|---------------------|-----------------------------|--|-----------|--|
| | | | Existing Ambient | Existing +Project | Project Increase | Use?² | Limit | Exceeded? | |
| 1 | Sierra Av. | n/o Santa Ana Av. | 72.6 | 72.6 | 0.0 | Yes | 1.5 | No | |
| 2 | Cedar Av. | n/o Santa Ana Av. | 69.9 | 70.2 | 0.3 | Yes | 1.5 | No | |
| 3 | Cedar Av. | n/o 7th St. | 70.1 | 70.2 | 0.1 | Yes | 1.5 | No | |
| 4 | Santa Ana Av. | e/o Sierra Av. | 65.6 | 65.6 | 0.0 | Yes | 1.5 | No | |
| 5 | Jurupa Av. | e/o Linden Av. | 61.1 | 63.1 | 2.0 | Yes | 3.0 | No | |

¹ The CNEL is calculated at the boundary of the right-of-way of each roadway and the nearest adjacent land use.

TABLE 7-8: OPENING YEAR WITH PROJECT TRAFFIC NOISE LEVEL INCREASES

| ID | Road | Segment | | EL at Adjac nd Use (dB | | Noise- Sensitive Land | Incremental Noise Level Increase Threshold ³ | | |
|----|---------------|-------------------|------|---------------------------|---------------------|-----------------------------|---|-----------|--|
| | | | | With Project | Project Increase | Use?² | Limit | Exceeded? | |
| 1 | Sierra Av. | n/o Santa Ana Av. | 72.8 | 72.8 | 0.0 | Yes | 1.5 | No | |
| 2 | Cedar Av. | n/o Santa Ana Av. | 70.7 | 71.0 | 0.3 | Yes | 1.5 | No | |
| 3 | Cedar Av. | n/o 7th St. | 70.8 | 70.9 | 0.1 | Yes | 1.5 | No | |
| 4 | Santa Ana Av. | e/o Sierra Av. | 66.0 | 66.1 | 0.1 | Yes | 1.5 | No | |
| 5 | Jurupa Av. | e/o Linden Av. | 64.5 | 65.5 | 1.0 | Yes | 3.0 | No | |

¹ The CNEL is calculated at the boundary of the right-of-way of each roadway and the nearest adjacent land use.



² "Yes" = Existing, noise-sensitive land uses adjacent to the study area roadway segment.

³ Does the Project create an incremental noise level increase exceeding the significance criteria (Table 4-1)?

² "Yes" = Existing, noise-sensitive land uses adjacent to the study area roadway segment.

³ Does the Project create an incremental noise level increase exceeding the significance criteria (Table 4-1)?

TABLE 7-9: GENERAL PLAN BUILDOUT WITH PROJECT TRAFFIC NOISE LEVEL INCREASES

| ID | Road | Segment | | EL at Adjac nd Use (dB | | Noise- Sensitive Land | Incremental Noise Level Increase Threshold ³ | | |
|----|---------------|-------------------|---------------|---------------------------|---------------------|-----------------------------|--|-----------|--|
| | | | No Project | With Project | Project Increase | Use?² | Limit | Exceeded? | |
| 1 | Sierra Av. | n/o Santa Ana Av. | 74.9 | 74.9 | 0.0 | Yes | 1.5 | No | |
| 2 | Cedar Av. | n/o Santa Ana Av. | 71.2 | 71.5 | 0.3 | Yes | 1.5 | No | |
| 3 | Cedar Av. | n/o 7th St. | 73.4 | 73.5 | 0.1 | Yes | 1.5 | No | |
| 4 | Santa Ana Av. | e/o Sierra Av. | 69.7 | 69.7 | 0.0 | Yes | 1.5 | No | |
| 5 | Jurupa Av. | e/o Linden Av. | 67.0 | 67.6 | 0.6 | Yes | 1.5 | No | |

¹ The CNEL is calculated at the boundary of the right-of-way of each roadway and the nearest adjacent land use.



² "Yes" = Existing, noise-sensitive land uses adjacent to the study area roadway segment.

³ Does the Project create an incremental noise level increase exceeding the significance criteria (Table 4-1)?

8 SENSITIVE RECEIVER LOCATIONS

To assess the potential for long-term operational and short-term construction noise impacts, the following sensitive receiver locations, as shown on Exhibits 8-A through 8-C, were identified as representative locations for analysis. Sensitive receivers are generally defined as locations where people reside or where the presence of unwanted sound could otherwise adversely affect the use of the land. Noise-sensitive land uses are generally considered to include schools, hospitals, single-family dwellings, mobile home parks, churches, libraries, and recreation areas. Moderately noise-sensitive land uses typically include multi-family dwellings, hotels, motels, dormitories, out-patient clinics, cemeteries, golf courses, country clubs, athletic/tennis clubs, and equestrian clubs. Land uses that are considered relatively insensitive to noise include business, commercial, and professional developments. Land uses that are typically not affected by noise include: industrial, manufacturing, utilities, agriculture, undeveloped land, parking lots, warehousing, liquid and solid waste facilities, salvage yards, and transit terminals.

To describe the potential off-site Project noise levels, 20 receiver locations in the vicinity of the Project site were identified. All distances are measured from the Project site boundaries to the outdoor living areas (e.g., private backyards) or at the building façade, whichever is closer to the Project site. The selection of receiver locations is based on FHWA guidelines and is consistent with additional guidance provided by Caltrans and the FTA, as previously described in Section 5.2. Other sensitive land uses in the Project study area that are located at greater distances than those identified in this noise study will experience lower noise levels than those presented in this report due to the additional attenuation from distance and the shielding of intervening structures. Distance is measured in a straight line from the project boundary to each receiver location.

OYD1-R1: Location OYD1-R1 represents the existing noise sensitive residence at 10984

Locust Avenue, approximately 42 feet north of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, OYD1-R1 is placed at the building façade. A 24-hour noise measurement was taken near this

location, OYD1-L1, to describe the existing ambient noise environment.

OYD1-R2: Location OYD1-R2 represents the existing noise sensitive residence at 11062

Locust Avenue, approximately 66 feet south of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, OYD1-R2 is placed at the building façade. A 24-hour noise measurement was taken near this

location, OYD1-L1, to describe the existing ambient noise environment.

OYD1-R3: Location OYD1-R3 represents the existing noise sensitive residence at 11161

Maple Avenue, approximately 94 feet east of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, OYD1-R3 is placed at the building façade. A 24-hour noise measurement was taken near this

location, OYD1-L2, to describe the existing ambient noise environment.

OYD1-R4: Location OYD1-R4 represents the existing noise sensitive residence at 11181

Maple Avenue, approximately 11 feet north of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, OYD1-R4 is

placed at the building façade. A 24-hour noise measurement was taken near this location, OYD1-L2, to describe the existing ambient noise environment.

- OYD2-R1: Location OYD2-R1 represents the existing noise sensitive residence at 10910 Laurel Avenue, approximately 80 feet west of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receiver OYD2-R1 is placed at the building façade. A 24-hour noise measurement was taken near this location, OYD2-L1, to describe the existing ambient noise environment.
- OYD2-R2: Location OYD2-R2 represents the existing noise sensitive residence at 17982 Santa Ana Avenue, approximately 38 feet east of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receiver R2 is placed at the building façade. A 24-hour noise measurement was taken near this location, OYD2-L2, to describe the existing ambient noise environment.
- OYD2-R3: Location OYD2-R3 represents the existing noise sensitive residence at 10923 Locust Avenue, approximately 91 feet east of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receiver OYD2-R3 is placed at the building façade. A 24-hour noise measurement was taken near this location, OYD2-L3, to describe the existing ambient noise environment.
- OYD2-R4: Location OYD2-R4 represents the existing noise sensitive residence at 10988 Maple Avenue, approximately 65 feet north of the Project site. OYD2-R4 is placed at the private outdoor living areas (backyards) facing the Project site. A 24-hour noise measurement was taken near this location, OYD2-L4, to describe the existing ambient noise environment.
- OYD2-R5: Location OYD2-R5 represents the existing noise sensitive residence at 11043 Maple Avenue, approximately 75 feet east of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receiver OYD2-R5 is placed at the building façade. A 24-hour noise measurement was taken near this location, OYD2-L5, to describe the existing ambient noise environment.
- OYD2-R6: Location OYD2-R6 represents the Walter Zimmerman Elementary School at 11050 Linden Avenue, approximately 85 feet north of the Project site. OYD2-R6 is placed at the building façade. A 24-hour noise measurement was taken near this location, OYD2-L6, to describe the existing ambient noise environment.
- OYD2-R7: Location OYD2-R7 represents the existing noise sensitive residence at 18507 Jurupa Avenue, approximately 166 feet southeast of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receiver OYD2-R7 is placed at the building façade. A 24-hour noise measurement was taken near this location, OYD2-L7, to describe the existing ambient noise environment.
- OYD2-R8: Location OYD2-R8 represents Kessler Park at 18401 Jurupa Avenue, approximately 230 feet south of the Project site. OYD2-R8 is placed at the building façade. A 24-hour noise measurement was taken near this location, OYD2-L8, to describe the existing ambient noise environment.
- OYD2-R9: Location OYD2-R9 represents the existing noise sensitive residence at 11142 Locust Avenue, approximately 127 feet west of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receiver OYD2-

R9 is placed at the building façade. A 24-hour noise measurement was taken near this location, OYD2-L9, to describe the existing ambient noise environment.

OYD2-R10:

Location OYD2-R10 represents the existing noise sensitive residence at 11138 Laurel Avenue, approximately 120 feet south of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receiver OYD2-R10 is placed at the building façade. A 24-hour noise measurement was taken near this location, OYD2-L10, to describe the existing ambient noise environment.

SP-R1:

Location SP-R1 represents the existing noise sensitive residence at 11137 Alder Avenue, approximately 276 feet east of the Project site. SP-R1 is placed at the private outdoor living areas (backyards) facing the Project site. A 24-hour noise measurement was taken near this location, SP-L1, to describe the existing ambient noise environment.

SP-R2:

Location SP-R2 represents the existing noise sensitive residence at 10913 Alder Avenue, approximately 30 feet east of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, SP-R2 is placed at the building façade. A 24-hour noise measurement was taken near this location, SP-L2, to describe the existing ambient noise environment.

SP-R3:

Location SP-R3 represents Bloomington High School at 10750 Laurel Avenue, approximately 92 feet north of the Project site. SP-R3 is placed at the building façade. A 24-hour noise measurement was taken near this location, SP-L3, to describe the existing ambient noise environment.

SP-R4:

Location SP-R4 represents the existing noise sensitive residence at 10888 Birch Avenue, approximately 82 feet north of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, SP-R4 is placed at the building façade. A 24-hour noise measurement was taken near this location, SP-L4, to describe the existing ambient noise environment.

SP-R5:

Location SP-R5 represents the existing noise sensitive residence at 10935 Maple Avenue, approximately 90 feet east of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, SP-R5 is placed at the building façade. A 24-hour noise measurement was taken near this location, SP-L5, to describe the existing ambient noise environment.

SP-R6:

Location SP-R6 represents the existing noise sensitive residence at 11198 Locust Avenue, approximately 13 feet south of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, SP-R6 is placed at the building façade. A 24-hour noise measurement was taken near this location, SP-L6, to describe the existing ambient noise environment.

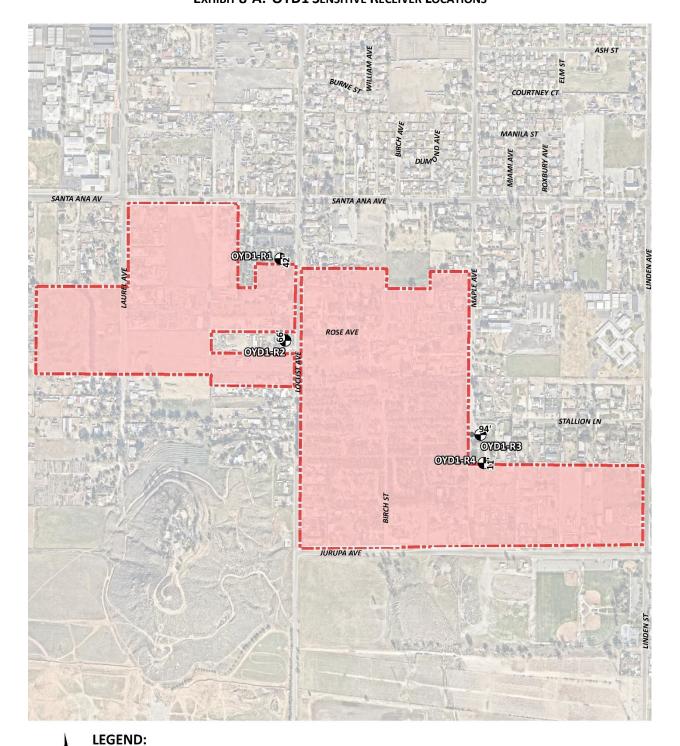


EXHIBIT 8-A: OYD1 SENSITIVE RECEIVER LOCATIONS

Receiver Locations

Opening Year Development Option 1 (OYD1) — Distance from receiver to Project site boundary (in feet)

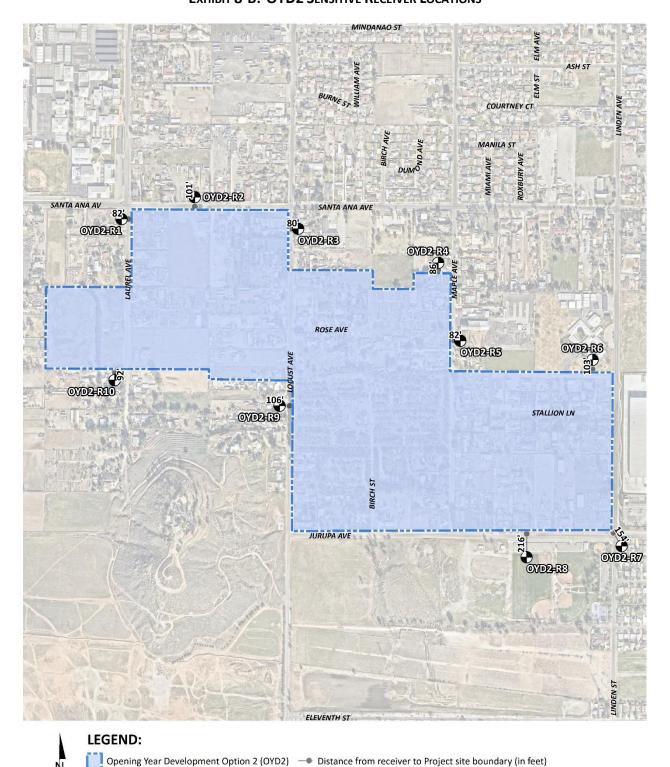


EXHIBIT 8-B: OYD2 SENSITIVE RECEIVER LOCATIONS

Receiver Locations

MINDANAO ST COURTNEY CT MANILA ST SANTA ANA AVE ROSE AVE 276' SP431 STALLION LN SP-RG C JURUPA AVE **LEGEND:**

EXHIBIT 8-C: SP SENSITIVE RECEIVER LOCATIONS

Receiver Locations

Specific Plan Area — Distance from receiver to Project site boundary (in feet)

9 OPERATIONAL NOISE IMPACTS

This section analyzes the potential stationary-source operational noise impacts at the nearest receiver locations, identified in Section 8, resulting from the operation of the proposed Bloomington Business Park Specific Plan Project. Exhibits 9-A through 9-C identify the representative noise source locations and the planned screen walls used to assess the operational noise levels. Since there is no project specific development proposed in the Specific Plan area at this time, this analysis analyzes the worst-case scenario with loading dock and trailer activity as the primary noise source activity as shown on Exhibit 9-C.

9.1 OPERATIONAL NOISE SOURCES

This operational noise analysis is intended to describe noise level impacts associated with the expected typical of daytime and nighttime activities at the Project site. To present the potential worst-case noise conditions, this analysis assumes the Project would be operational 24 hours per day, seven days per week. Consistent with similar warehouse uses, the Project business operations would primarily be conducted within the enclosed buildings, except for traffic movement, parking, as well as loading and unloading of trucks at designated loading bays. The on-site Project-related noise sources are expected to include: loading dock activity, trailer activity, truck movements, roof-top air conditioning units, parking lot vehicle movements, and trash enclosure activity.

9.2 REFERENCE NOISE LEVELS

To estimate the Project operational noise impacts, reference noise level measurements were collected from similar types of activities to represent the noise levels expected with the development of the proposed Project. This section provides a detailed description of the reference noise level measurements shown on Table 9-1 used to estimate the Project operational noise impacts. It is important to note that the following projected noise levels assume the worst-case noise environment with the loading dock activity, trailer activity, truck movements, roof-top air conditioning units, parking lot vehicle movements, and trash enclosure activity all operating continuously. These sources of noise activity will likely vary throughout the day.

9.2.1 MEASUREMENT PROCEDURES

The reference noise level measurements presented in this section were collected using a Larson Davis LxT Type 1 precisions sound level meter (serial number 01146). The LxT sound level meter was calibrated using a Larson-Davis calibrator, Model CAL 200, was programmed in "slow" mode to record noise levels in "A" weighted form and was located at approximately five feet above the ground elevation for each measurement. The sound level meters and microphones were equipped with a windscreen during all measurements. All noise level measurement equipment satisfies the American National Standards Institute (ANSI) standard specifications for sound level meters ANSI S1.4-2014/IEC 61672-1:2013. (14)

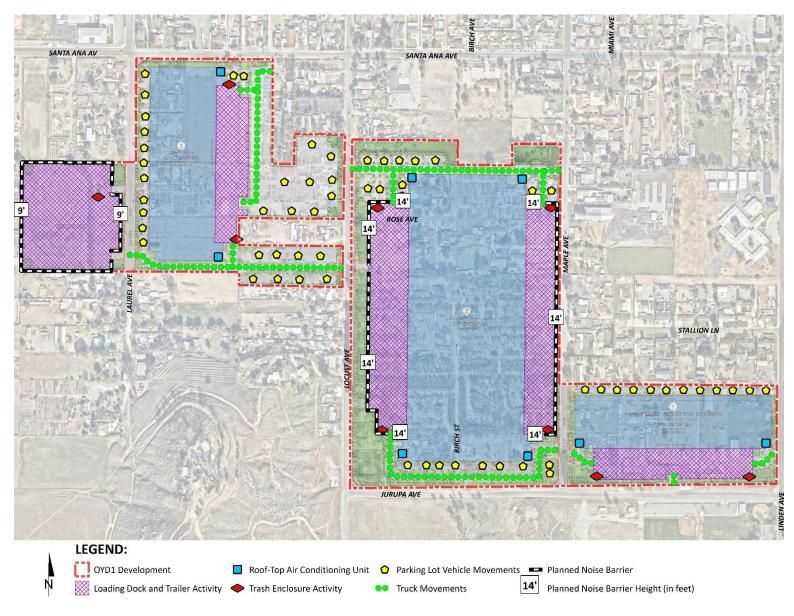


EXHIBIT 9-A: OYD1 OPERATIONAL NOISE SOURCE LOCATIONS



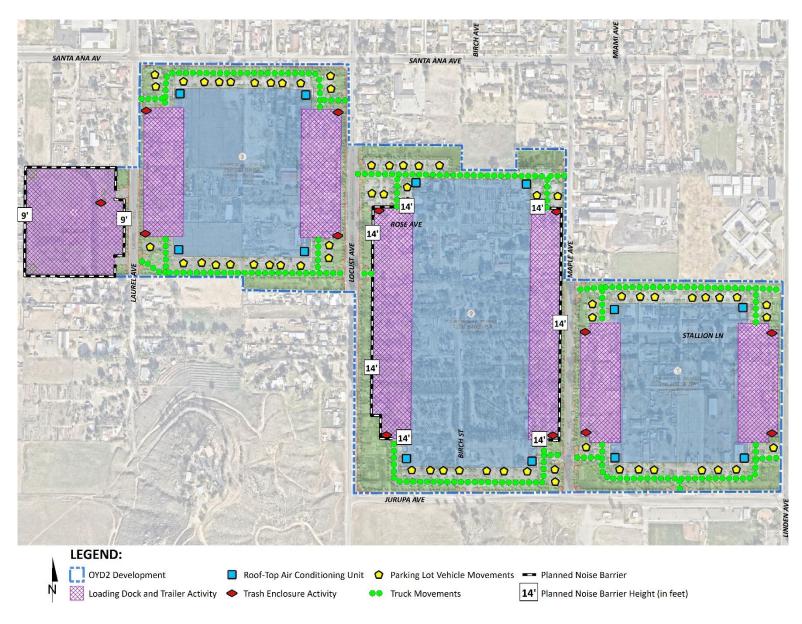


EXHIBIT 9-B: OYD2 OPERATIONAL NOISE SOURCE LOCATIONS



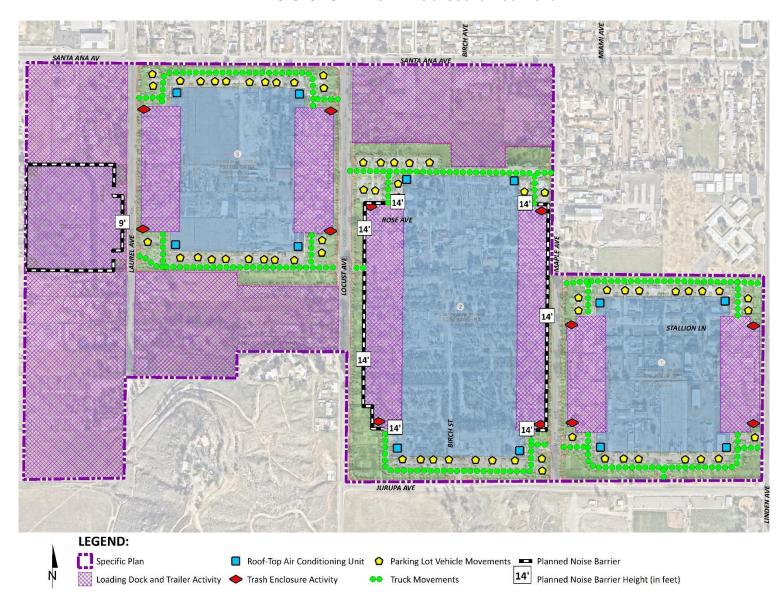


EXHIBIT 9-C: SP OPERATIONAL NOISE SOURCE LOCATIONS



TABLE 9-1: REFERENCE NOISE LEVEL MEASUREMENTS

| Noise Source ¹ | Noise Source | Min./Hour ² | | Reference Noise Level | Sound Power |
|-----------------------------------|------------------|------------------------|-------|-------------------------------------|-----------------|
| Noise Source | Height (Feet) | Day | Night | (dBA L _{eq}) @ 50 Feet | Level (dBA)³ |
| Loading Dock and Trailer Activity | 8' | 60 | 60 | 62.8 | 103.4 |
| Truck Movements | 8' | 60 | 60 | 59.8 | 93.2 |
| Roof-Top Air Conditioning Units | 5' | 39 | 28 | 57.2 | 88.9 |
| Parking Lot Vehicle Movements | 5' | 60 | 60 | 56.1 | 87.8 |
| Trash Enclosure Activity | 5' | 10 | 10 | 57.3 | 89.0 |

¹ As measured by Urban Crossroads, Inc.

9.2.2 LOADING DOCK AND TRAILER ACTIVITY

The reference loading dock activities are intended to describe the typical operational noise source levels associated with the Project. This includes truck idling, deliveries, backup alarms, unloading/loading, docking including a combination of tractor trailer semi-trucks, two-axle delivery trucks, and background forklift operations. At a uniform reference distance of 50 feet, Urban Crossroads collected a reference noise level of 62.8 dBA L_{eq}. The loading dock activity noise level measurement was taken over a fifteen-minute period and represents multiple noise sources taken from the center of activity. The reference noise level measurement includes employees unloading a docked truck container included the squeaking of the truck's shocks when weight was removed from the truck, employees playing music over a radio, as well as a forklift horn and backup alarm. In addition, during the noise level measurement a truck entered the loading dock area and proceeded to reverse and dock in a nearby loading bay, adding truck engine, idling, air brakes noise, in addition to on-going idling of an already docked truck.

The noise level measurements represent the typical weekday dry goods logistics warehouse operation in a single building with a loading dock area on the eastern side of the building façade. In addition, since this reference noise level describes the peak noise source activity, it is also used in the noise prediction model as area source to conservatively describe the entire loading dock area even though during normal operations, the loading dock noise source activity will occur at different locations throughout the loading dock area.

9.2.3 TRUCK MOVEMENTS

The truck movements reference noise level measurement was collected over a period of 1 hour and 28 minutes and represents multiple heavy trucks entering and exiting the outdoor loading dock area producing a reference noise level of 59.8 dBA $L_{\rm eq}$ at 50 feet. The noise sources included at this measurement location account for trucks entering and existing the Project driveways and

² Anticipated duration (minutes within the hour) of noise activity during typical hourly conditions expected at the Project site. "Daytime" = 7:00 a.m. - 10:00 p.m.; "Nighttime" = 10:00 p.m. - 7:00 a.m.

³ Sound power level represents the total amount of acoustical energy (noise level) produced by a sound source independent of distance or surroundings. Sound power levels calculated using the CadnaA noise model at the reference distance to the noise source. Numbers may vary due to size differences between point and area noise sources.

maneuvering in and out of the outdoor loading dock activity area. Consistent with the Bloomington Business Park Specific Plan *Traffic Impact Analysis*, the Project is expected to generate a total of approximately 576 trip-ends per day (actual vehicles) and includes 100 truck trip-ends per day. (18) This noise study relies on the actual Project trips (as opposed to the passenger car equivalents) to accurately account for the effect of individual truck trips on the study area roadway network. Using the estimated number of truck trips in combination with time-of-day vehicle splits, the number of entry gate and truck movements were calculated. As shown on Table 9-2, this information is then used to calculate the entry gate and truck movements operational noise source activity based on the number of events by time of day.

TABLE 9-2: ENTRY GATE & TRUCK MOVEMENTS BY LOCATION

| Entry Gate & | Total Truck | | | Time of | Day Vehicl | e Splits ⁵ | Truck Movements ⁶ | | | |
|--|--|----------------------------|-----------------------------------|---------|------------|-----------------------|------------------------------|---------|-------|--|
| Truck Movement Location ¹ | Project Truck Trips ² | Trip Dist. ³ | Trips by Location ⁴ | Day | Evening | Night | Day | Evening | Night | |
| All Driveways | 100 | 100% | 100 | 86.50% | 2.70% | 10.80% | 87 | 3 | 11 | |

¹ Driveway locations as shown on Exhibits 9-A through 9-C.

9.2.4 ROOF-TOP AIR CONDITIONING UNITS

The noise level measurements describe a single mechanical roof-top air conditioning unit. The reference noise level represents a Lennox SCA120 series 10-ton model packaged air conditioning unit. At the uniform reference distance of 50 feet, the reference noise levels are 57.2 dBA L_{eq}. Based on the typical operating conditions observed over a four-day measurement period, the roof-top air conditioning units are estimated to operate for and average 39 minutes per hour during the daytime hours, and 28 minutes per hour during the nighttime hours. These operating conditions reflect peak summer cooling requirements with measured temperatures approaching 96 degrees Fahrenheit (°F) with average daytime temperatures of 82°F. For this noise analysis, the air conditioning units are expected to be located on the roof of the Project buildings.

9.2.5 PARKING LOT VEHICLE MOVEMENTS

To describe the on-site parking lot activity a reference noise level of 56.1 dBA L_{eq} at 50 feet is used. Parking activity are expected to take place during the full hour (60 minutes) throughout the daytime and evening hours. The parking lot noise levels are mainly due cars pulling in and out of parking spaces in combination with sales staff talking to customers.

² Net New Project truck trips according to Table 10 of the Bloomington Business Park Specific Plan Traffic Impact Analysis.

³ Project truck trip distribution.

⁴ Calculated trip trucks per location represents the product of the total (inbound and outbound) project truck trips by and the trip distribution.

⁵ Heavy truck time of day vehicle splits as shown on Table 6-3. Values rounded to the nearest one-hundredth.

⁶ Calculated time of day entry gate and truck movements by location.

9.2.6 Trash Enclosure Activity

To describe the noise levels associated with a trash enclosure activity, Urban Crossroads collected a reference noise level measurement at an existing trash enclosure containing two dumpster bins. The trash enclosure noise levels describe metal gates opening and closing, metal scraping against concrete floor sounds, dumpster movement on metal wheels, and trash dropping into the metal dumpster. The reference noise levels describe trash enclosure noise activities when trash is dropped into an empty metal dumpster, as would occur at the Project Site. The measured reference noise level at the uniform 50-foot reference distance is 57.3 dBA Leq for the trash enclosure activity. The reference noise level describes the expected noise source activities associated with the trash enclosures for the Project's proposed building. Typical trash enclosure activities are estimated to occur for 10 minutes per hour.

9.3 CADNAA NOISE PREDICTION MODEL

To fully describe the exterior operational noise levels from the Project, Urban Crossroads, Inc. developed a noise prediction model using the CadnaA (Computer Aided Noise Abatement) computer program. CadnaA can analyze multiple types of noise sources using the spatially accurate Project site plan, georeferenced Nearmap aerial imagery, topography, buildings, and barriers in its calculations to predict outdoor noise levels.

Using the ISO 9613 protocol, CadnaA will calculate the distance from each noise source to the noise receiver locations, using the ground absorption, distance, and barrier/building attenuation inputs to provide a summary of noise level at each receiver and the partial noise level contributions by noise source. Consistent with the ISO 9613 protocol, the CadnaA noise prediction model relies on the reference sound power level (L_w) to describe individual noise sources. While sound pressure levels (e.g., L_{eq}) quantify in decibels the intensity of given sound sources at a reference distance, sound power levels (L_w) are connected to the sound source and are independent of distance. Sound pressure levels vary substantially with distance from the source and diminish because of intervening obstacles and barriers, air absorption, wind, and other factors. Sound power is the acoustical energy emitted by the sound source and is an absolute value that is not affected by the environment.

The operational noise level calculations provided in this noise study account for the distance attenuation provided due to geometric spreading, when sound from a localized stationary source (i.e., a point source) propagates uniformly outward in a spherical pattern. A default ground attenuation factor of 0.5 was used in the noise analysis to account for mixed ground representing a combination of hard and soft surfaces. Appendix 9.1 includes the detailed noise model inputs used to estimate the Project operational noise levels presented in this section.

9.4 OYD1 Project Operational Noise Levels

Using the reference noise levels to represent the proposed Project operations that include loading dock activity, trailer activity, truck movements, roof-top air conditioning units, parking lot vehicle movements, and trash enclosure activity, Urban Crossroads, Inc. calculated the operational source noise levels that are expected to be generated at the OYD1 Project site and

the Project-related noise level increases that would be experienced at each of the sensitive receiver locations. The operational noise level calculations include the planned 9-foot and 14-foot-high screen wall located at site 2 and site 4 as shown on Exhibit 9-A. Table 9-3 shows the OYD1 Project operational noise levels during the daytime hours of 7:00 a.m. to 10:00 p.m. The daytime hourly noise levels at the off-site receiver locations are expected to range from 52.3 to 55.8 dBA L_{eq} with the planned barriers?

TABLE 9-3: OYD1 DAYTIME PROJECT OPERATIONAL NOISE LEVELS

| Noise Source ¹ | Operational Noise Levels by Receiver Location (dBA Leq) | | | | | | | | |
|-----------------------------------|---|---------|---------|---------|--|--|--|--|--|
| Noise Source | OYD1-R1 | OYD1-R2 | OYD1-R3 | OYD1-R4 | | | | | |
| Loading Dock and Trailer Activity | 47.4 | 48.1 | 52.6 | 51.5 | | | | | |
| Truck Movements | 45.5 | 46.4 | 32.9 | 35.3 | | | | | |
| Roof-Top Air Conditioning Units | 32.9 | 33.4 | 29.0 | 29.3 | | | | | |
| Parking Lot Vehicle Movements | 48.8 | 49.7 | 42.9 | 53.7 | | | | | |
| Trash Enclosure Activity | 25.0 | 25.9 | 19.9 | 20.7 | | | | | |
| Total (All Noise Sources) | 52.3 | 53.1 | 53.1 | 55.8 | | | | | |

¹ See Exhibit 9-A for the noise source locations. CadnaA noise model calculations are included in Appendix 9.1.

Table 9-4 shows the OYD1 Project operational noise levels during the nighttime hours of 10:00 p.m. to 7:00 a.m. The nighttime hourly noise levels at the off-site receiver locations are expected to range from 45.3 to 57.9 dBA L_{eq} . The differences between the daytime and nighttime noise levels are largely related to the duration of noise activity (Table 9-1).

TABLE 9-4: OYD1 NIGHTTIME PROJECT OPERATIONAL NOISE LEVELS

| Noise Source ¹ | Operationa | Operational Noise Levels by Receiver Location (dBA Leq) | | | | | | | | |
|-----------------------------------|------------|---|---------|---------|--|--|--|--|--|--|
| Noise Source | OYD1-R1 | OYD1-R2 | OYD1-R3 | OYD1-R4 | | | | | | |
| Loading Dock and Trailer Activity | 46.4 | 47.2 | 51.7 | 50.6 | | | | | | |
| Truck Movements | 36.5 | 37.4 | 23.9 | 26.4 | | | | | | |
| Roof-Top Air Conditioning Units | 30.5 | 31.0 | 26.6 | 26.9 | | | | | | |
| Parking Lot Vehicle Movements | 47.8 | 48.7 | 41.9 | 52.8 | | | | | | |
| Trash Enclosure Activity | 24.0 | 25.0 | 18.9 | 19.7 | | | | | | |
| Total (All Noise Sources) | 50.4 | 51.3 | 52.2 | 54.9 | | | | | | |

¹ See Exhibit 9-A for the noise source locations. CadnaA noise model calculations are included in Appendix 9.1.

9.5 OYD1 Project Operational Noise Level Compliance

To demonstrate compliance with local noise regulations, the OYD1 Project-only operational noise levels are evaluated against exterior noise level thresholds based on the County of San Bernardino exterior noise level standards at nearby noise-sensitive receiver locations. Table 9-5 shows the OYD1 operational noise levels associated with Bloomington Business Park Specific Plan Project will satisfy the County of San Bernardino exterior noise level standards adjusted to reflect the ambient noise levels at all nearby sensitive receiver locations.

TABLE 9-5: OYD1 OPERATIONAL NOISE LEVEL COMPLIANCE

| Receiver | Project Operational Noise Levels (dBA Leq) ² Measurement Location ³ | | | l Standards Leq) ³ | Noise Level Standards Exceeded? ⁴ | | |
|----------|---|-----------|----------|----------------------------------|---|---------|-----------|
| Location | Daytime | Nighttime | Location | Daytime | Nighttime | Daytime | Nighttime |
| OYD1-R1 | 52.3 | 50.4 | OYD1-L1 | 71 | 67 | No | No |
| OYD1-R2 | 53.1 | 51.3 | OYD1-L1 | 71 | 67 | No | No |
| OYD1-R3 | 53.1 | 52.2 | OYD1-L2 | 61 | 56 | No | No |
| OYD1-R4 | YD1-R4 55.8 54.9 | | OYD1-L2 | 61 | 56 | No | No |

¹ See Exhibit 8-A for the receiver locations.

9.6 OYD2 Project Operational Noise Levels

Using the reference noise levels to represent the proposed Project operations that include loading dock activity, trailer activity, truck movements, roof-top air conditioning units, parking lot vehicle movements, and trash enclosure activity, Urban Crossroads, Inc. calculated the operational source noise levels that are expected to be generated at the OYD2 Project site and the Project-related noise level increases that would be experienced at each of the sensitive receiver locations. The operational noise level calculations include the planned 9-foot and 14-foot-high screen wall located at site 2 and site 4 as shown on Exhibit 9-B. Table 9-6 shows the OYD2 Project operational noise levels during the daytime hours of 7:00 a.m. to 10:00 p.m. The daytime hourly noise levels at the off-site receiver locations are expected to range from 47.7 to 52.9 dBA Leq.

TABLE 9-6: OYD2 DAYTIME PROJECT OPERATIONAL NOISE LEVELS

| | | Operational Noise Levels by Receiver Location (dBA Leq) | | | | | | | | | |
|-----------------------------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--|
| Noise Source ¹ | OLD2- R1 | OLD2- R2 | OLD2- R3 | OLD2- R4 | OLD2- R5 | OLD2- R6 | OLD2- R7 | OLD2- R8 | OLD2- R9 | OLD2- R10 | |
| Loading Dock and Trailer Activity | 48.7 | 31.9 | 49.5 | 44.6 | 47.3 | 46.2 | 45.1 | 35.6 | 50.8 | 49.3 | |
| Truck Movements | 46.0 | 48.4 | 48.0 | 45.9 | 44.4 | 49.3 | 43.2 | 45.8 | 44.1 | 44.3 | |
| Roof-Top Air Conditioning Units | 32.2 | 32.5 | 34.0 | 33.6 | 32.6 | 34.4 | 31.0 | 32.3 | 31.9 | 30.7 | |
| Parking Lot Vehicle Movements | 45.4 | 46.3 | 45.9 | 40.1 | 41.7 | 44.5 | 39.2 | 41.9 | 40.9 | 39.8 | |
| Trash Enclosure Activity | 32.0 | 19.0 | 33.7 | 21.6 | 26.7 | 27.0 | 25.6 | 17.4 | 25.4 | 28.0 | |
| Total (All Noise Sources) | 51.8 | 50.6 | 52.9 | 49.1 | 49.9 | 52.0 | 48.0 | 47.7 | 52.0 | 50.9 | |

¹ See Exhibit 9-B for the noise source locations. CadnaA noise model calculations are included in Appendix 9.2.

Table 9-7 shows the OYD2 Project operational noise levels during the nighttime hours of 10:00 p.m. to 7:00 a.m. The nighttime hourly noise levels at the off-site receiver locations are expected to range from 43.2 to 50.5 dBA L_{eq} . The differences between the daytime and nighttime noise levels are largely related to the duration of noise activity (Table 9-1).

² Proposed Project operational noise levels as shown on Tables 9-3 and 9-4.

³ Exterior noise level standards adjusted to reflect the ambient noise levels (see Table 5-1) per the County of San Bernardino Development Code, Title 8, Section 83.01.080 (Appendix 3.1).

⁴ Do the estimated Project operational noise source activities exceed the noise level standards?

[&]quot;Daytime" = 7:00 a.m. - 10:00 p.m.; "Nighttime" = 10:00 p.m. - 7:00 a.m.

TABLE 9-7: OYD2 NIGHTTIME PROJECT OPERATIONAL NOISE LEVELS

| | Operational Noise Levels by Receiver Location (dBA Leq) | | | | | | | | | |
|-----------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Noise Source ¹ | OLD2- R1 | OLD2- R2 | OLD2- R3 | OLD2- R4 | OLD2- R5 | OLD2- R6 | OLD2- R7 | OLD2- R8 | OLD2- R9 | OLD2- R10 |
| Loading Dock and Trailer Activity | 47.8 | 30.9 | 48.5 | 43.6 | 46.3 | 45.2 | 44.1 | 34.6 | 49.8 | 48.3 |
| Truck Movements | 37.0 | 39.5 | 39.0 | 36.9 | 35.5 | 40.3 | 34.3 | 36.8 | 35.1 | 35.3 |
| Roof-Top Air Conditioning Units | 29.8 | 30.1 | 31.6 | 31.2 | 30.2 | 32.0 | 28.6 | 29.8 | 29.5 | 28.3 |
| Parking Lot Vehicle Movements | 44.4 | 45.3 | 44.9 | 39.2 | 40.8 | 43.5 | 38.2 | 40.9 | 39.9 | 38.8 |
| Trash Enclosure Activity | 31.0 | 18.0 | 32.7 | 20.6 | 25.8 | 26.0 | 24.6 | 16.4 | 24.4 | 27.0 |
| Total (All Noise Sources) | 49.8 | 46.5 | 50.5 | 45.7 | 47.8 | 48.3 | 45.6 | 43.2 | 50.4 | 49.0 |

¹ See Exhibit 9-B for the noise source locations. CadnaA noise model calculations are included in Appendix 9.2.

9.7 OYD2 Project Operational Noise Level Compliance

To demonstrate compliance with local noise regulations, the OYD2 Project-only operational noise levels are evaluated against exterior noise level thresholds based on the County of San Bernardino exterior noise level standards at nearby noise-sensitive receiver locations. Table 9-8 shows the OYD2 operational noise levels associated with Bloomington Business Park Specific Plan Project will satisfy the County of San Bernardino exterior noise level standards adjusted to reflect the ambient noise levels at all nearby sensitive receiver locations.

TABLE 9-8: OYD2 OPERATIONAL NOISE LEVEL COMPLIANCE

| Receiver Location ¹ | Project Operational Noise Levels (dBA Leq) ² | | Measurement Location ³ | | l Standards Leq) ³ | Noise Level Standards Exceeded? ⁴ | |
|-----------------------------------|--|-----------|--------------------------------------|---------|----------------------------------|---|-----------|
| Location | Daytime | Nighttime | Location | Daytime | Nighttime | Daytime | Nighttime |
| OYD2-R1 | 51.8 | 49.8 | OYD2-L1 | 59 | 55 | No | No |
| OYD2-R2 | 50.6 | 46.5 | OYD2-L2 | 63 | 60 | No | No |
| OYD2-R3 | 52.9 | 50.5 | OYD2-L3 | 71 | 67 | No | No |
| OYD2-R4 | 49.1 | 45.7 | OYD2-L4 | 59 | 56 | No | No |
| OYD2-R5 | 49.9 | 47.8 | OYD2-L5 | 67 | 65 | No | No |
| OYD2-R6 | 52.0 | 48.3 | OYD2-L6 | 57 | 54 | No | No |
| OYD2-R7 | 48.0 | 45.6 | OYD2-L7 | 68 | 62 | No | No |
| OYD2-R8 | 47.7 | 43.2 | OYD2-L8 | 59 | 55 | No | No |
| OYD2-R9 | 52.0 | 50.4 | OYD2-L9 | 58 | 55 | No | No |
| OYD2-R10 | 50.9 | 49.0 | OYD2-L10 | 55 | 53 | No | No |

¹ See Exhibit 8-B for the receiver locations.

 $^{^{\}rm 2}$ Proposed Project operational noise levels as shown on Tables 9-6 and 9-7.

³ Exterior noise level standards adjusted to reflect the ambient noise levels (see Table 5-1) per the County of San Bernardino Development Code, Title 8, Section 83.01.080 (Appendix 3.1).

⁴ Do the estimated Project operational noise source activities exceed the noise level standards?

[&]quot;Daytime" = 7:00 a.m. - 10:00 p.m.; "Nighttime" = 10:00 p.m. - 7:00 a.m.

9.8 SP Project Operational Noise Levels

Using the reference noise levels to represent the proposed Project operations that include loading dock activity, trailer activity, truck movements, roof-top air conditioning units, parking lot vehicle movements, and trash enclosure activity, Urban Crossroads, Inc. calculated the operational source noise levels that are expected to be generated at the SP Project site and the Project-related noise level increases that would be experienced at each of the sensitive receiver locations. The operational noise level calculations include the planned 9-foot and 14-foot-high screen wall located at site 2 and site 4 as shown on Exhibit 9-C. Table 9-9 shows the SP Project operational noise levels during the daytime hours of 7:00 a.m. to 10:00 p.m. The daytime hourly noise levels at the off-site receiver locations are expected to range from 47.9 to 55.8 dBA Leq.

Operational Noise Levels by Receiver Location (dBA Leq) Noise Source¹ SP-R1 SP-R2 SP-R3 SP-R4 SP-R5 SP-R6 Loading Dock and Trailer Activity 47.5 50.4 49.4 52.1 51.1 55.5 41.7 **Truck Movements** 34.8 36.7 40.5 42.4 42.0 **Roof-Top Air Conditioning Units** 25.6 27.0 28.8 32.1 31.3 31.2 Parking Lot Vehicle Movements 31.6 34.8 38.9 39.2 38.3 39.3 25.7 22.5 22.9 Trash Enclosure Activity 17.6 22.3 20.8 47.9 50.7 50.3 52.7 51.9 55.8 **Total (All Noise Sources)**

TABLE 9-9: SP DAYTIME PROJECT OPERATIONAL NOISE LEVELS

Table 9-10 shows the SP Project operational noise levels during the nighttime hours of $10:00 \, \text{p.m.}$ to $7:00 \, \text{a.m.}$ The nighttime hourly noise levels at the off-site receiver locations are expected to range from $46.7 \, \text{to} \, 54.6 \, \text{dBA L}_{\text{eq}}$. The differences between the daytime and nighttime noise levels are largely related to the duration of noise activity (Table 9-1).

| Noise Source ¹ | Operational Noise Levels by Receiver Location (dBA Leq) | | | | | | | |
|-----------------------------------|---|-------|-------|-------|-------|-------|--|--|
| Noise Source | SP-R1 | SP-R2 | SP-R3 | SP-R4 | SP-R5 | SP-R6 | | |
| Loading Dock and Trailer Activity | 46.5 | 49.4 | 48.5 | 51.1 | 50.1 | 54.5 | | |
| Truck Movements | 25.8 | 27.7 | 31.5 | 32.8 | 33.4 | 33.0 | | |
| Roof-Top Air Conditioning Units | 23.2 | 24.6 | 26.4 | 29.7 | 28.9 | 28.8 | | |
| Parking Lot Vehicle Movements | 30.6 | 33.8 | 37.9 | 38.3 | 37.3 | 38.4 | | |
| Trash Enclosure Activity | 16.6 | 21.3 | 24.7 | 21.5 | 19.8 | 21.9 | | |
| Total (All Noise Sources) | 46.7 | 49.6 | 49.0 | 51.4 | 50.4 | 54.6 | | |

TABLE 9-10: SP NIGHTTIME PROJECT OPERATIONAL NOISE LEVELS

9.9 SP Project Operational Noise Level Compliance

To demonstrate compliance with local noise regulations, the SP Project-only operational noise levels are evaluated against exterior noise level thresholds based on the County of San

¹ See Exhibit 9-C for the noise source locations. CadnaA noise model calculations are included in Appendix 9.3.

 $^{^{1}}$ See Exhibit 9-C for the noise source locations. CadnaA noise model calculations are included in Appendix 9.3.

Bernardino exterior noise level standards at nearby noise-sensitive receiver locations. Table 9-11 shows the SP operational noise levels associated with Bloomington Business Park Specific Plan Project will satisfy the County of San Bernardino exterior noise level standards adjusted to reflect the ambient noise levels at all nearby sensitive receiver locations.

TABLE 9-11: SP OPERATIONAL NOISE LEVEL COMPLIANCE

| Receiver Location ¹ | Project Operational Noise Levels (dBA Leq) ² | | Measurement Location ³ | Noise Leve (dBA | l Standards Leq) ³ | Noise Level Standards Exceeded? ⁴ | |
|-----------------------------------|--|-----------|--------------------------------------|--------------------|----------------------------------|---|-----------|
| Location | Daytime | Nighttime | Location | Daytime | Nighttime | Daytime | Nighttime |
| SP-R1 | 47.9 | 46.7 | SP-L1 | 71 | 78 | No | No |
| SP-R2 | 50.7 | 49.6 | SP-L2 | 61 | 57 | No | No |
| SP-R3 | 50.3 | 49.0 | SP-L3 | 70 | 65 | No | No |
| SP-R4 | 52.7 | 51.4 | SP-L4 | 75 | 73 | No | No |
| SP-R5 | 51.9 | 50.4 | SP-L5 | 59 | 56 | No | No |
| SP-R6 | 55.8 | 54.6 | SP-L6 | 58 | 55 | No | No |

¹ See Exhibit 8-C for the receiver locations.

9.8 Project Operational Noise Level Increases

To describe the Project operational noise level increases, the Project operational noise levels are combined with the existing ambient noise levels measurements for the nearby receiver locations potentially impacted by Project operational noise sources. Since the units used to measure noise, decibels (dB), are logarithmic units, the Project-operational and existing ambient noise levels cannot be combined using standard arithmetic equations. (2) Instead, they must be logarithmically added using the following base equation:

$$SPL_{Total} = 10log_{10}[10^{SPL1/10} + 10^{SPL2/10} + ... 10^{SPLn/10}]$$

Where "SPL1," "SPL2," etc. are equal to the sound pressure levels being combined, or in this case, the Project-operational and existing ambient noise levels. The difference between the combined Project and ambient noise levels describes the Project noise level increases to the existing ambient noise environment. As indicated on Tables 9-12 through 9-17, the Project will not generate a daytime and nighttime operational noise level increase at the nearby receiver locations. Project-related operational noise level increases will satisfy the operational noise level increase significance criteria presented on Table 4-1. Therefore, the incremental Project operational noise level increase is considered *less than significant* at all receiver locations.

² Proposed Project operational noise levels as shown on Tables 9-9 and 9-10.

³ Exterior noise level standards adjusted to reflect the ambient noise levels (see Table 5-1) per the County of San Bernardino Development Code, Title 8, Section 83.01.080 (Appendix 3.1).

⁴ Do the estimated Project operational noise source activities exceed the noise level standards?

[&]quot;Daytime" = 7:00 a.m. - 10:00 p.m.; "Nighttime" = 10:00 p.m. - 7:00 a.m.

TABLE 9-12: OYD1 DAYTIME PROJECT OPERATIONAL NOISE LEVEL INCREASES

| Receiver Location ¹ | Total Project Operational Noise Level ² | Measurement Location ³ | Reference Ambient Noise Levels ⁴ | Combined Project and Ambient ⁵ | Project Increase ⁶ | Increase Criteria ⁷ | Increase Criteria Exceeded? |
|-----------------------------------|--|--------------------------------------|--|--|----------------------------------|-----------------------------------|-----------------------------------|
| OYD1-R1 | 52.3 | OYD1-L1 | 70.6 | 70.7 | 0.1 | 1.5 | No |
| OYD1-R2 | 53.1 | OYD1-L1 | 70.6 | 70.7 | 0.1 | 1.5 | No |
| OYD1-R3 | 53.1 | OYD1-L2 | 60.9 | 61.6 | 0.7 | 3.0 | No |
| OYD1-R4 | 55.8 | OYD1-L2 | 60.9 | 62.1 | 1.2 | 3.0 | No |

¹ See Exhibit 8-A for the receiver locations.

TABLE 9-13: OYD1 NIGHTTIME OPERATIONAL NOISE LEVEL INCREASES

| Receiver Location ¹ | Total Project Operational Noise Level ² | Measurement Location ³ | Reference Ambient Noise Levels ⁴ | Combined Project and Ambient ⁵ | Project Increase ⁶ | Increase Criteria ⁷ | Increase Criteria Exceeded? |
|-----------------------------------|--|--------------------------------------|--|--|----------------------------------|-----------------------------------|-----------------------------------|
| OYD1-R1 | 50.4 | OYD1-L1 | 67.2 | 67.3 | 0.1 | 1.5 | No |
| OYD1-R2 | 51.3 | OYD1-L1 | 67.2 | 67.3 | 0.1 | 1.5 | No |
| OYD1-R3 | 52.2 | OYD1-L2 | 56.3 | 57.7 | 1.4 | 5.0 | No |
| OYD1-R4 | 54.9 | OYD1-L2 | 56.3 | 58.7 | 2.4 | 5.0 | No |

¹ See Exhibit 8-A for the receiver locations.



² Total Project daytime operational noise levels as shown on Table 9-5.

³ Reference noise level measurement locations as shown on Exhibit 5-A.

⁴ Observed daytime ambient noise levels as shown on Table 5-1.

⁵ Represents the combined ambient conditions plus the Project activities.

⁶ The noise level increase expected with the addition of the proposed Project activities.

⁷ Significance increase criteria as shown on Table 4-1.

² Total Project nighttime operational noise levels as shown on Table 9-5.

³ Reference noise level measurement locations as shown on Exhibit 5-A.

⁴ Observed nighttime ambient noise levels as shown on Table 5-1.

⁵ Represents the combined ambient conditions plus the Project activities.

⁶ The noise level increase expected with the addition of the proposed Project activities.

⁷ Significance increase criteria as shown on Table 4-1.

TABLE 9-14: OYD2 DAYTIME PROJECT OPERATIONAL NOISE LEVEL INCREASES

| Receiver Location ¹ | Total Project Operational Noise Level ² | Measurement Location ³ | Reference Ambient Noise Levels ⁴ | Combined Project and Ambient ⁵ | Project Increase ⁶ | Increase Criteria ⁷ | Increase Criteria Exceeded? |
|-----------------------------------|--|--------------------------------------|--|--|----------------------------------|-----------------------------------|-----------------------------------|
| OYD2-R1 | 51.8 | OYD2-L1 | 58.6 | 59.4 | 0.8 | 5.0 | No |
| OYD2-R2 | 50.6 | OYD2-L2 | 62.5 | 62.8 | 0.3 | 3.0 | No |
| OYD2-R3 | 52.9 | OYD2-L3 | 70.6 | 70.7 | 0.1 | 1.5 | No |
| OYD2-R4 | 49.1 | OYD2-L4 | 58.9 | 59.3 | 0.4 | 5.0 | No |
| OYD2-R5 | 49.9 | OYD2-L5 | 67.2 | 67.3 | 0.1 | 1.5 | No |
| OYD2-R6 | 52.0 | OYD2-L6 | 56.5 | 57.8 | 1.3 | 5.0 | No |
| OYD2-R7 | 48.0 | OYD2-L7 | 67.9 | 67.9 | 0.0 | 1.5 | No |
| OYD2-R8 | 47.7 | OYD2-L8 | 59.2 | 59.5 | 0.3 | 5.0 | No |
| OYD2-R9 | 52.0 | OYD2-L9 | 57.5 | 58.6 | 1.1 | 5.0 | No |
| OYD2-R10 | 50.9 | OYD2-L10 | 55.3 | 56.6 | 1.3 | 5.0 | No |

¹ See Exhibit 8-B for the receiver locations.



² Total Project daytime operational noise levels as shown on Table 9-8.

³ Reference noise level measurement locations as shown on Exhibit 5-B.

⁴ Observed daytime ambient noise levels as shown on Table 5-1.

⁵ Represents the combined ambient conditions plus the Project activities.

⁶ The noise level increase expected with the addition of the proposed Project activities.

⁷ Significance increase criteria as shown on Table 4-1.

TABLE 9-15: OYD2 NIGHTTIME OPERATIONAL NOISE LEVEL INCREASES

| Receiver Location ¹ | Total Project Operational Noise Level ² | Measurement Location ³ | Reference Ambient Noise Levels ⁴ | Combined Project and Ambient ⁵ | Project Increase ⁶ | Increase Criteria ⁷ | Increase Criteria Exceeded? |
|-----------------------------------|--|--------------------------------------|--|--|----------------------------------|-----------------------------------|-----------------------------------|
| OYD2-R1 | 49.8 | OYD2-L1 | 55.2 | 56.3 | 1.1 | 5.0 | No |
| OYD2-R2 | 46.5 | OYD2-L2 | 60.2 | 60.4 | 0.2 | 3.0 | No |
| OYD2-R3 | 50.5 | OYD2-L3 | 67.2 | 67.3 | 0.1 | 1.5 | No |
| OYD2-R4 | 45.7 | OYD2-L4 | 56.4 | 56.8 | 0.4 | 5.0 | No |
| OYD2-R5 | 47.8 | OYD2-L5 | 65.0 | 65.1 | 0.1 | 1.5 | No |
| OYD2-R6 | 48.3 | OYD2-L6 | 54.4 | 55.4 | 1.0 | 5.0 | No |
| OYD2-R7 | 45.6 | OYD2-L7 | 62.1 | 62.2 | 0.1 | 3.0 | No |
| OYD2-R8 | 43.2 | OYD2-L8 | 54.5 | 54.8 | 0.3 | 5.0 | No |
| OYD2-R9 | 50.4 | OYD2-L9 | 54.7 | 56.1 | 1.4 | 5.0 | No |
| OYD2-R10 | 49.0 | OYD2-L10 | 52.5 | 54.1 | 1.6 | 5.0 | No |

¹ See Exhibit 8-B for the receiver locations.



² Total Project nighttime operational noise levels as shown on Table 9-8.

³ Reference noise level measurement locations as shown on Exhibit 5-B.

⁴ Observed nighttime ambient noise levels as shown on Table 5-1.

⁵ Represents the combined ambient conditions plus the Project activities.

⁶ The noise level increase expected with the addition of the proposed Project activities.

⁷ Significance increase criteria as shown on Table 4-1.

TABLE 9-16: SP DAYTIME PROJECT OPERATIONAL NOISE LEVEL INCREASES

| Receiver Location ¹ | Total Project Operational Noise Level ² | Measurement Location ³ | Reference Ambient Noise Levels ⁴ | Combined Project and Ambient ⁵ | Project Increase ⁶ | Increase Criteria ⁷ | Increase Criteria Exceeded? |
|-----------------------------------|--|--------------------------------------|--|--|----------------------------------|-----------------------------------|-----------------------------------|
| SP-R1 | 47.9 | SP-L1 | 71.1 | 71.1 | 0.0 | 1.5 | No |
| SP-R2 | 50.7 | SP-L2 | 60.8 | 61.2 | 0.4 | 3.0 | No |
| SP-R3 | 50.3 | SP-L3 | 70.1 | 70.1 | 0.0 | 1.5 | No |
| SP-R4 | 52.7 | SP-L4 | 75.0 | 75.0 | 0.0 | 1.5 | No |
| SP-R5 | 51.9 | SP-L5 | 58.9 | 59.7 | 0.8 | 5.0 | No |
| SP-R6 | 55.8 | SP-L6 | 57.5 | 59.7 | 2.2 | 5.0 | No |

¹ See Exhibit 8-C for the receiver locations.



² Total Project daytime mitigated operational noise levels as shown on Table 9-11.

³ Reference noise level measurement locations as shown on Exhibit 5-C.

⁴ Observed daytime ambient noise levels as shown on Table 5-1.

⁵ Represents the combined ambient conditions plus the Project activities.

⁶ The noise level increase expected with the addition of the proposed Project activities.

⁷ Significance increase criteria as shown on Table 4-1.

TABLE 9-17: SP NIGHTTIME OPERATIONAL NOISE LEVEL INCREASES

| Receiver Location ¹ | Total Project Operational Noise Level ² | Measurement Location ³ | Reference Ambient Noise Levels ⁴ | Combined Project and Ambient ⁵ | Project Increase ⁶ | Increase Criteria ⁷ | Increase Criteria Exceeded? |
|-----------------------------------|--|--------------------------------------|--|--|----------------------------------|-----------------------------------|-----------------------------------|
| SP-R1 | 46.7 | SP-L1 | 77.6 | 77.6 | 0.0 | 1.5 | No |
| SP-R2 | 49.6 | SP-L2 | 57.0 | 57.7 | 0.7 | 5.0 | No |
| SP-R3 | 49.0 | SP-L3 | 64.5 | 64.6 | 0.1 | 3.0 | No |
| SP-R4 | 51.4 | SP-L4 | 73.1 | 73.1 | 0.0 | 1.5 | No |
| SP-R5 | 50.4 | SP-L5 | 56.4 | 57.4 | 1.0 | 5.0 | No |
| SP-R6 | 54.6 | SP-L6 | 54.7 | 57.7 | 3.0 | 5.0 | No |

¹ See Exhibit 8-C for the receiver locations.



² Total Project mitigated nighttime operational noise levels as shown on Table 9-11.

³ Reference noise level measurement locations as shown on Exhibit 5-C.

⁴ Observed nighttime ambient noise levels as shown on Table 5-1.

⁵ Represents the combined ambient conditions plus the Project activities.

⁶ The noise level increase expected with the addition of the proposed Project activities.

⁷ Significance increase criteria as shown on Table 4-1.

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10 CONSTRUCTION IMPACTS

This section analyzes potential impacts resulting from the short-term construction activities associated with the development of the Project. Exhibit 10-A shows the construction noise source locations in relation to the nearest sensitive receiver locations previously described in Section 8. To prevent high levels of construction noise from impacting noise-sensitive land uses, County of San Bernardino Development Code Section 83.01.080(g)(3), states that construction activities are limited to the hours of 7:00 a.m. to 7:00 p.m. on any day and limited at any time on Sundays and federal holidays.

10.1 Construction Noise Levels

Noise generated by the Project construction equipment will include a combination of trucks, power tools, concrete mixers, and portable generators that when combined can reach high levels. The number and mix of construction equipment are expected to occur in the following stages:

- Demolition
- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

10.2 Typical Construction Reference Noise Levels

To describe peak construction noise activities, this construction noise analysis was prepared using reference noise level measurements published in the *Update of Noise Database for Prediction of Noise on Construction and Open Sites* by the Department for Environment, Food and Rural Affairs (DEFRA). (19). The DEFRA database provides the most recent and comprehensive source of reference construction noise levels. Table 10-1 provides a summary of the DEFRA construction reference noise level measurements expressed in hourly average dBA Leq using the estimated FHWA Roadway Construction Noise Model (RCNM) usage factors (20) to describe the typical construction activities for each stage of Project construction.



COURTNEY CT MANILA ST SANTA ANA AVE ONDITIES OF ROSE AVE OMD1-12 STALLION LN OYD1-R3 OVD1-R4

EXHIBIT 10-A: OYD1 CONSTRUCTION NOISE SOURCE LOCATIONS







OYD1 Construction Activity 💮 Receiver Locations 🖜 Distance from receiver to construction activity (in feet)



MINDANAO ST COURTNEY CT MANILA ST S OVD2+R2 SANTA ANA AVE OYD2+R1 OYD2+R3 OVD2+R4 ROSE AVE OVD2+R5 OVD2+R33 OYD2+R10 STALLION LN OYD2+R9 OXD2433 JURUPA AVE

EXHIBIT 10-B: OYD2 CONSTRUCTION NOISE SOURCE LOCATIONS





MINDANAO ST COURTNEY CT MANILA ST SP-R2 276' SP-M STALLION LN JURUPA AVE **LEGEND:**

EXHIBIT 10-C: SP CONSTRUCTION NOISE SOURCE LOCATIONS



SP Construction Activity 💮 Receiver Locations 🖜 Distance from receiver to construction activity (in feet)

TABLE 10-1: TYPICAL CONSTRUCTION REFERENCE NOISE LEVELS

| Construction Stage | Reference Construction Activity ¹ | Reference Noise Level @ 50 Feet (dBA L _{eq}) | Highest Reference Noise Level (dBA L _{eq}) | |
|--------------------------|---|--|--|--|
| | Demolition Equipment | 69 | | |
| Demolition | Backhoes | 61 | 71 | |
| | Hauling Trucks | 71 | | |
| <u> </u> | Crawler Tractors | 77 | | |
| Site Preparation | Hauling Trucks | 71 | 77 | |
| Treparation | Rubber Tired Dozers | 71 | | |
| | Graders | 79 | | |
| Grading | Excavators | 64 | 79 | |
| | Compactors | 67 | | |
| | Cranes | 67 | | |
| Building Construction | Tractors | 72 | 72 | |
| Construction | Welders | 65 | | |
| | Pavers | 70 | | |
| Paving | Paving Equipment | 69 | 70 | |
| | Rollers | 69 | | |
| | Cranes | 67 | | |
| Architectural | Air Compressors | 67 | 67 | |
| Coating | Generator Sets | 67 | | |

¹ Update of Noise Database for Prediction of Noise on Construction and Open Sites by the Department for Environment, Food and Rural Affairs (DEFRA) expressed in hourly average Leq based on estimated usage factors from the FHWA Roadway Construction Noise Model (RCNM).

10.3 OYD1 CONSTRUCTION NOISE ANALYSIS

Using the reference construction equipment noise levels and the CadnaA noise prediction model, calculations of the Project construction noise level impacts at the nearest sensitive receiver locations were completed. To assess the worst-case construction noise levels, the Project construction noise analysis relies on the highest noise level impacts when the equipment with the highest reference noise level is operating at the closest point from the edge of primary construction activity (Project site boundary) to each receiver location.

As shown on Table 10-2, the OYD1 construction noise levels are expected to range from 64.2 to 79.5 dBA $L_{\rm eq}$, and the highest construction levels are expected to range from 76.2 to 79.5 dBA $L_{\rm eq}$ at the nearest receiver locations. Appendix 10.1 includes the detailed CadnaA construction noise model inputs.



TABLE 10-2: OYD1 CONSTRUCTION EQUIPMENT NOISE LEVEL SUMMARY

| | | | Constructi | ion Noise Leve | ls (dBA L _{eq}) | | |
|-----------------------------------|------------|---------------------|------------|--------------------------|---------------------------|--------------------------|--------------------------------|
| Receiver Location ¹ | Demolition | Site Preparation | Grading | Building Construction | Paving | Architectural Coating | Highest Levels ² |
| OYD1-R1 | 68.8 | 74.8 | 76.8 | 69.8 | 67.8 | 64.8 | 76.8 |
| OYD1-R2 | 69.9 | 75.9 | 77.9 | 70.9 | 68.9 | 65.9 | 77.9 |
| OYD1-R3 | 68.2 | 74.2 | 76.2 | 69.2 | 67.2 | 64.2 | 76.2 |
| OYD1-R4 | 71.5 | 77.5 | 79.5 | 72.5 | 70.5 | 67.5 | 79.5 |

¹ Construction noise source and receiver locations are shown on Exhibit 10-A.

10.4 OYD1 CONSTRUCTION NOISE LEVEL COMPLIANCE

To evaluate whether the Project will generate potentially significant short-term noise levels at nearest receiver locations, a construction-related daytime noise level threshold of 80 dBA L_{eq} is used as a reasonable threshold to assess the daytime construction noise level impacts.

The OYD1 construction noise analysis shows that the nearest receiver locations will satisfy the reasonable daytime 80 dBA L_{eq} significance threshold during Project construction activities as shown on Table 10-3. Therefore, the noise impacts due to OYD1 Project construction noise is considered *less than significant* at all receiver locations.

TABLE 10-3: OYD1 CONSTRUCTION NOISE LEVEL COMPLIANCE

| | Construction Noise Levels (dBA Leq) | | | | |
|-----------------------------------|---|------------------------|---|--|--|
| Receiver Location ¹ | Highest Construction Noise Levels ² | Threshold ³ | Threshold Exceeded? ⁴ | | |
| OYD1-R1 | 76.8 | 80 | No | | |
| OYD1-R2 | 77.9 | 80 | No | | |
| OYD1-R3 | 76.2 | 80 | No | | |
| OYD1-R4 | 79.5 | 80 | Threshold Exceeded? ⁴ No | | |

¹ Noise receiver locations are shown on Exhibit 10-A.

10.5 OYD2 CONSTRUCTION NOISE ANALYSIS

As shown on Table 10-4, the OYD2 construction noise levels are expected to range from 59.6 to 76.6 dBA L_{eq} , and the highest construction levels are expected to range from 71.6 to 76.6 dBA L_{eq} at the nearest receiver locations. Appendix 10.2 includes the detailed CadnaA construction noise model inputs.



² Construction noise level calculations based on distance from the project site boundaries (construction activity area) to nearby receiver locations. CadnaA construction noise model inputs are included in Appendix 10.1.

² Highest construction noise level operating at the Project site boundary to nearby receiver locations (Table 10-2).

³ Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual.

⁴ Do the estimated Project construction noise levels exceed the construction noise level threshold?

TABLE 10-4: OYD2 CONSTRUCTION EQUIPMENT NOISE LEVEL SUMMARY

| | | | Construct | ion Noise Leve | els (dBA L _{eq}) | | |
|-----------------------------------|------------|---------------------|-----------|--------------------------|----------------------------|--------------------------|--------------------------------|
| Receiver Location ¹ | Demolition | Site Preparation | Grading | Building Construction | Paving | Architectural Coating | Highest Levels ² |
| OYD2-R1 | 66.4 | 72.4 | 74.4 | 67.4 | 65.4 | 62.4 | 74.4 |
| OYD2-R2 | 66.9 | 72.9 | 74.9 | 67.9 | 65.9 | 62.9 | 74.9 |
| OYD2-R3 | 67.6 | 73.6 | 75.6 | 68.6 | 66.6 | 63.6 | 75.6 |
| OYD2-R4 | 66.5 | 72.5 | 74.5 | 67.5 | 65.5 | 62.5 | 74.5 |
| OYD2-R5 | 68.6 | 74.6 | 76.6 | 69.6 | 67.6 | 64.6 | 76.6 |
| OYD2-R6 | 66.3 | 72.3 | 74.3 | 67.3 | 65.3 | 62.3 | 74.3 |
| OYD2-R7 | 63.6 | 69.6 | 71.6 | 64.6 | 62.6 | 59.6 | 71.6 |
| OYD2-R8 | 65.3 | 71.3 | 73.3 | 66.3 | 64.3 | 61.3 | 73.3 |
| OYD2-R9 | 68.5 | 74.5 | 76.5 | 69.5 | 67.5 | 64.5 | 76.5 |
| OYD2-R10 | 67.1 | 73.1 | 75.1 | 68.1 | 66.1 | 63.1 | 75.1 |

¹ Construction noise source and receiver locations are shown on Exhibit 10-B.

10.6 OYD2 CONSTRUCTION NOISE LEVEL COMPLIANCE

The OYD2 construction noise analysis shows that the nearest receiver locations will satisfy the reasonable daytime 80 dBA L_{eq} significance threshold during Project construction activities as shown on Table 10-5. Therefore, the noise impacts due to OYD2 Project construction noise is considered *less than significant* at all receiver locations.

TABLE 10-5: OYD2 CONSTRUCTION NOISE LEVEL COMPLIANCE

| | Const | truction Noise Levels (dB | A L _{eq}) | |
|-----------------------------------|--|---------------------------|-------------------------------------|--|
| Receiver Location ¹ | Highest Construction Noise Levels ² | Threshold ³ | Threshold Exceeded? ⁴ | |
| OYD2-R1 | 74.4 | 80 | No | |
| OYD2-R2 | 74.9 | 80 | No | |
| OYD2-R3 | 75.6 | 80 | No | |
| OYD2-R4 | 74.5 | 80 | No | |
| OYD2-R5 | 76.6 | 80 | No | |
| OYD2-R6 | 74.3 | 80 | No | |
| OYD2-R7 | 71.6 | 80 | No | |
| OYD2-R8 | 73.3 | 80 | No | |
| OYD2-R9 | 76.5 | 80 | No | |
| OYD2-R10 | 75.1 | 80 | No | |

¹ Noise receiver locations are shown on Exhibit 10-B.

⁴ Do the estimated Project construction noise levels exceed the construction noise level threshold?



² Construction noise level calculations based on distance from the project site boundaries (construction activity area) to nearby receiver locations. CadnaA construction noise model inputs are included in Appendix 10.2.

² Highest construction noise level operating at the Project site boundary to nearby receiver locations (Table 10-4).

³ Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual.

10.7 SP CONSTRUCTION NOISE ANALYSIS

As shown on Table 10-6, the SP construction noise levels are expected to range from 61.0 to 79.6 dBA L_{eq} , and the highest construction levels are expected to range from 73.0 to 79.6 dBA L_{eq} at the nearest receiver locations. Appendix 10.3 includes the detailed CadnaA construction noise model inputs.

TABLE 10-6: SP CONSTRUCTION EQUIPMENT NOISE LEVEL SUMMARY

| | | | Constructi | on Noise Leve | ls (dBA L _{eq}) | | |
|-----------------------------------|------------|------------------------------|------------|--------------------------|---------------------------|--------------------------|--------------------------------|
| Receiver Location ¹ | Demolition | molition Site Preparation | | Building Construction | Paving | Architectural Coating | Highest Levels ² |
| SP-R1 | 65.0 | 71.0 | 73.0 | 66.0 | 64.0 | 61.0 | 73.0 |
| SP-R2 | 68.5 | 74.5 | 76.5 | 69.5 | 67.5 | 64.5 | 76.5 |
| SP-R3 | 67.3 | 73.3 | 75.3 | 68.3 | 66.3 | 63.3 | 75.3 |
| SP-R4 | 68.0 | 74.0 | 76.0 | 69.0 | 67.0 | 64.0 | 76.0 |
| SP-R5 | 67.3 | 73.3 | 75.3 | 68.3 | 66.3 | 63.3 | 75.3 |
| SP-R6 | 71.6 | 77.6 | 79.6 | 72.6 | 70.6 | 67.6 | 79.6 |

¹Construction noise source and receiver locations are shown on Exhibit 10-C.

10.8 SP Construction Noise Level Compliance

The SP construction noise analysis shows that the nearest receiver locations will satisfy the reasonable daytime 80 dBA L_{eq} significance threshold during Project construction activities as shown on Table 10-7. Therefore, the noise impacts due to SP Project construction noise is considered *less than significant* at all receiver locations.

TABLE 10-7: SP CONSTRUCTION NOISE LEVEL COMPLIANCE

| D in | Construction Noise Levels (dBA Leq) | | | | |
|-----------------------------------|---|---------------------------------------|----|--|--|
| Receiver Location ¹ | Highest Construction Noise Levels ² | ction Threshold ³ Threshol | | | |
| SP-R1 | 73.0 | 80 | No | | |
| SP-R2 | 76.5 | 80 | No | | |
| SP-R3 | 75.3 | 80 | No | | |
| SP-R4 | 76.0 | 80 | No | | |
| SP-R5 | 75.3 | 80 | No | | |
| SP-R6 | 79.6 | 80 | No | | |

¹ Noise receiver locations are shown on Exhibit 10-C.



² Construction noise level calculations based on distance from the project site boundaries (construction activity area) to nearby receiver locations. CadnaA construction noise model inputs are included in Appendix 10.3.

² Highest construction noise level operating at the Project site boundary to nearby receiver locations (Table 10-6).

³ Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual.

⁴ Do the estimated Project construction noise levels exceed the construction noise level threshold?

10.9 Typical Construction Vibration Impacts

Construction activity can result in varying degrees of ground vibration, depending on the equipment and methods used, distance to the affected structures and soil type. It is expected that ground-borne vibration from Project construction activities would cause only intermittent, localized intrusion. Ground-borne vibration levels resulting from typical construction activities occurring within the Project site were estimated by data published by the Federal Transit Administration (FTA) (7). However, while vehicular traffic is rarely perceptible, construction has the potential to result in varying degrees of temporary ground vibration, depending on the specific construction activities and equipment used.

Ground vibration levels associated with various types of construction equipment are summarized on Table 10-8. Based on the representative vibration levels presented for various construction equipment types, it is possible to estimate the potential Project construction vibration levels using the following vibration assessment methods defined by the FTA. The FTA provides the following equation: $PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$

TABLE 10-8: VIBRATION SOURCE LEVELS FOR CONSTRUCTION EQUIPMENT

| Equipment | PPV (in/sec) at 25 feet |
|-----------------|----------------------------|
| Small bulldozer | 0.003 |
| Jackhammer | 0.035 |
| Loaded Trucks | 0.076 |
| Large bulldozer | 0.089 |

Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual

Tables 10-9 through 10-11 present the expected Project related vibration levels at the nearby receiver locations. At distances ranging from 11 feet to 276 feet from Project construction activities (at the Project site boundaries), construction vibration levels are estimated to range from 0.002 to 0.305 in/sec PPV and will exceed the County of San Bernardino 0.2 in/sec PPV threshold for vibration at OYD1-R4 and SOYD1-R6. The Project-related vibration impacts will be potentially significant during the construction activities at the Project site and mitigation is required.



TABLE 10-9: UNMITIGATED OYD1 PROJECT CONSTRUCTION VIBRATION LEVELS

| | Distance to | | Receiver | PPV Levels | s (in/sec) ² | | Threshold | |
|-----------------------|------------------------|--------------------|-----------------|------------------|-------------------------|-------------------|------------------------------|-------------------------------------|
| Receiver ¹ | Const. Activity (Feet) | Small Bulldozer | Jack- hammer | Loaded Trucks | Large Bulldozer | Peak Vibration | PPV (in/sec) ³ | Threshold Exceeded? ⁴ |
| OYD1-R1 | 42' | 0.001 | 0.016 | 0.035 | 0.041 | 0.041 | 0.2 | No |
| OYD1-R2 | 66' | 0.001 | 0.008 | 0.018 | 0.021 | 0.021 | 0.2 | No |
| OYD1-R3 | 94' | 0.000 | 0.005 | 0.010 | 0.012 | 0.012 | 0.2 | No |
| OYD1-R4 | 11' | 0.010 | 0.120 | 0.260 | 0.305 | 0.305 | 0.2 | Yes |

¹ Receiver locations are shown on Exhibit 10-A.

TABLE 10-10: UNMITIGATED OYD2 PROJECT CONSTRUCTION VIBRATION LEVELS

| | Distance | | Receiver | PPV Levels | (in/sec)² | | Threshold | |
|-----------------------|---------------------------------|--------------------|-----------------|------------------|--------------------|-------------------|------------------------------|-------------------------------------|
| Receiver ¹ | to Const. Activity (Feet) | Small Bulldozer | Jack- hammer | Loaded Trucks | Large Bulldozer | Peak Vibration | PPV (in/sec) ³ | Threshold Exceeded? ⁴ |
| OYD2-R1 | 82' | 0.001 | 0.006 | 0.013 | 0.015 | 0.015 | 0.2 | No |
| OYD2-R2 | 101' | 0.000 | 0.004 | 0.009 | 0.011 | 0.011 | 0.2 | No |
| OYD2-R3 | 80' | 0.001 | 0.006 | 0.013 | 0.016 | 0.016 | 0.2 | No |
| OYD2-R4 | 86' | 0.000 | 0.005 | 0.012 | 0.014 | 0.014 | 0.2 | No |
| OYD2-R5 | 82' | 0.001 | 0.006 | 0.013 | 0.015 | 0.015 | 0.2 | No |
| OYD2-R6 | 103' | 0.000 | 0.004 | 0.009 | 0.011 | 0.011 | 0.2 | No |
| OYD2-R7 | 154' | 0.000 | 0.002 | 0.005 | 0.006 | 0.006 | 0.2 | No |
| OYD2-R8 | 216' | 0.000 | 0.001 | 0.003 | 0.004 | 0.004 | 0.2 | No |
| OYD2-R9 | 106' | 0.000 | 0.004 | 0.009 | 0.010 | 0.010 | 0.2 | No |
| OYD2-R10 | 92' | 0.000 | 0.005 | 0.011 | 0.013 | 0.013 | 0.2 | No |

¹Receiver locations are shown on Exhibit 10-B.



² Based on the Vibration Source Levels of Construction Equipment included on Table 10-8.

³ County of San Bernardino Development Code, Section 83.01.090(a) (Appendix 3.1)

⁴ Does the vibration level exceed the maximum acceptable vibration threshold?

 $^{^{\}rm 2}$ Based on the Vibration Source Levels of Construction Equipment included on Table 10-8.

³ County of San Bernardino Development Code, Section 83.01.090(a) (Appendix 3.1)

⁴ Does the vibration level exceed the maximum acceptable vibration threshold?

TABLE 10-11: UNMITIGATED SP PROJECT CONSTRUCTION VIBRATION LEVELS

| | Distance to | | Receiver | PPV Levels | s (in/sec)² | | | |
|-----------------------|------------------------|--------------------|-----------------|------------------|--------------------|-------------------|---|-------------------------------------|
| Receiver ¹ | Const. Activity (Feet) | Small Bulldozer | Jack- hammer | Loaded Trucks | Large Bulldozer | Peak Vibration | Threshold PPV (in/sec) ³ | Threshold Exceeded? ⁴ |
| SP-R1 | 276' | 0.000 | 0.001 | 0.002 | 0.002 | 0.002 | 0.2 | No |
| SP-R2 | 30' | 0.002 | 0.027 | 0.058 | 0.068 | 0.068 | 0.2 | No |
| SP-R3 | 92' | 0.000 | 0.005 | 0.011 | 0.013 | 0.013 | 0.2 | No |
| SP-R4 | 82' | 0.001 | 0.006 | 0.013 | 0.015 | 0.015 | 0.2 | No |
| SP-R5 | 90' | 0.000 | 0.005 | 0.011 | 0.013 | 0.013 | 0.2 | No |
| SP-R6 | 13' | 0.008 | 0.093 | 0.203 | 0.237 | 0.237 | 0.2 | Yes |

¹Receiver locations are shown on Exhibit 10-C.

Therefore, a 20-foot buffer zone mitigation measure is required which would restrict the use of large, loaded trucks, heavy mobile equipment greater than 80,000 pounds, and the use of jack hammers within 20-feet of occupied sensitive receiver locations represented by P-R4 and SP-R6. With the mitigation measures outlined below, Project construction vibration levels would be reduced to 0.124 in/sec PPV, will satisfy the 0.2 in/sec PPV threshold for vibration, and represent less than significant impacts with mitigation. Therefore, loaded trucks and all heavy mobile equipment greater than 80,000 pounds, and jack hammers are prohibited from use during Project construction activities within 20 feet of noise sensitive uses. Instead, small rubber-tired or alternative equipment, as well as soil compaction equipment shall be used during Project construction to reduce vibration effects on nearby structures and their occupants.

With the construction vibration measures identified in this report, the mitigated vibration levels will satisfy the County of San Bernardino perceptible vibration threshold of 0.2 in/sec PPV at all receiver locations and represent *less than significant* impacts with mitigation as shown on Tables 10-12 and 10-13.

TABLE 10-12: OYD1 MITIGATED CONSTRUCTION EQUIPMENT VIBRATION LEVELS

| | Distance to | | Receiver | PPV Levels | s (in/sec) ² | | Threshold | |
|-----------------------|------------------------|--------------------|-----------------|------------------|-------------------------|-------------------|------------------------------|-------------------------------------|
| Receiver ¹ | Const. Activity (Feet) | Small Bulldozer | Jack- hammer | Loaded Trucks | Large Bulldozer | Peak Vibration | PPV (in/sec) ³ | Threshold Exceeded? ⁴ |
| OYD1-R4 | 20' | 0.004 | 0.049 | 0.106 | 0.124 | 0.124 | 0.2 | No |

¹Receiver locations are shown on Exhibit 10-A.



² Based on the Vibration Source Levels of Construction Equipment included on Table 10-8.

³ County of San Bernardino Development Code, Section 83.01.090(a) (Appendix 3.1)

⁴ Does the vibration level exceed the maximum acceptable vibration threshold?

² Based on the Vibration Source Levels of Construction Equipment included on Table 10-8.

³ County of San Bernardino Development Code, Section 83.01.090(a) (Appendix 3.1)

⁴ Does the vibration level exceed the maximum acceptable vibration threshold?

TABLE 10-13: SP MITIGATED CONSTRUCTION EQUIPMENT VIBRATION LEVELS

| Receiver ¹ | Distance to | Receiver PPV Levels (in/sec) ² | | | | | Threshold | |
|-----------------------|------------------------------|---|-----------------|------------------|--------------------|-------------------|------------------------------|-------------------------------------|
| | Const. Activity (Feet) | Small Bulldozer | Jack- hammer | Loaded Trucks | Large Bulldozer | Peak Vibration | PPV (in/sec) ³ | Threshold Exceeded? ⁴ |
| SP-R6 | 20' | 0.004 | 0.049 | 0.106 | 0.124 | 0.124 | 0.2 | No |

¹Receiver locations are shown on Exhibit 10-C.

Moreover, the impacts at the site of the closest sensitive receivers are unlikely to be sustained during the entire construction period but will occur rather only during the times that heavy construction equipment is operating adjacent to the Project site perimeter.



 $^{^{\}rm 2}$ Based on the Vibration Source Levels of Construction Equipment included on Table 10-8.

³ County of San Bernardino Development Code, Section 83.01.090(a) (Appendix 3.1)

⁴ Does the vibration level exceed the maximum acceptable vibration threshold?

11 REFERENCES

- 1. **State of California.** *California Environmental Quality Act, Appendix G.* 2018.
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- 8. Office of Planning and Research. State of California General Plan Guidelines. October 2017.
- 9. County of San Bernardino. Countywide Plan. October 2020.
- 10. —. Code of Ordinances, Title 8 Development Code, Chapter 83.01 General Performance Standards.
- 11. California Court of Appeal. *Gray v. County of Madera, F053661.* 167 Cal.App.4th 1099; Cal.Rptr.3d, October 2008.
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- 13. California Department of Transportation. *Technical Noise Supplement*. November 2009.
- 14. American National Standards Institute (ANSI). Specification for Sound Level Meters ANSI S1.4-2014/IEC 61672-1:2013.
- 15. **U.S. Department of Transportation, Federal Highway Administration.** *FHWA Highway Traffic Noise Prediction Model.* December 1978. FHWA-RD-77-108.
- 16. California Department of Transportation Environmental Program, Office of Environmental Engineering. Use of California Vehicle Noise Reference Energy Mean Emission Levels (Calveno REMELs) in FHWA Highway Traffic Noise Prediction. September 1995. TAN 95-03.
- 17. **California Department of Transportation.** *Traffic Noise Attenuation as a Function of Ground and Vegetation Final Report.* June 1995. FHWA/CA/TL-95/23.
- 18. **Environmental Planning Development Solutions, Inc.** Bloomington Business Park Specific Plan Traffic Impact Analysis. July 2021.
- 19. **Department of Environment, Food and Rural Affiars (Defra).** *Update of Noise Database for Prediction of Noise on Construction and Open Sites.* 2004.
- 20. FHWA. Roadway Construction Noise Model. January 2006.



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12 CERTIFICATION

The contents of this noise study report represent an accurate depiction of the noise environment and impacts associated with the proposed Bloomington Business Park Specific Plan Project. The information contained in this noise study report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 584-3148.

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EDUCATION

Master of Science in Civil and Environmental Engineering
California Polytechnic State University, San Luis Obispo • December, 1993

Bachelor of Science in City and Regional Planning California Polytechnic State University, San Luis Obispo • June, 1992

PROFESSIONAL REGISTRATIONS

PE – Registered Professional Traffic Engineer – TR 2537 • January, 2009

AICP – American Institute of Certified Planners – 013011 • June, 1997–January 1, 2012

PTP – Professional Transportation Planner • May, 2007 – May, 2013

INCE – Institute of Noise Control Engineering • March, 2004

PROFESSIONAL AFFILIATIONS

ASA – Acoustical Society of America ITE – Institute of Transportation Engineers

PROFESSIONAL CERTIFICATIONS

Certified Acoustical Consultant – County of Orange • February, 2011 FHWA-NHI-142051 Highway Traffic Noise Certificate of Training • February, 2013



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APPENDIX 3.1:

COUNTY OF SAN BERNARDINO DEVELOPMENT CODE



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§ 83.01.080 Noise.

This Section establishes standards concerning acceptable noise levels for both noise-sensitive land uses and for noise-generating land uses.

- (a) Noise Measurement. Noise shall be measured:
- (1) At the property line of the nearest site that is occupied by, and/or zoned or designated to allow the development of noise-sensitive land uses;
- (2) With a sound level meter that meets the standards of the American National Standards Institute (ANSI § SI4 1979, Type 1 or Type 2);
- (3) Using the "A" weighted sound pressure level scale in decibels (ref. pressure = 20 micronewtons per meter squared). The unit of measure shall be designated as dB(A).
- (b) Noise Impacted Areas. Areas within the County shall be designated as "noise-impacted" if exposed to existing or projected future exterior noise levels from mobile or stationary sources exceeding the standards listed in Subdivision (d) (Noise Standards for Stationary Noise Sources) and Subdivision (e) (Noise Standards for Adjacent Mobile Noise Sources), below. New development of residential or other noise-sensitive land uses shall not be allowed in noise-impacted areas unless effective mitigation measures are incorporated into the project design to reduce noise levels to these standards. Noise-sensitive land uses shall include residential uses, schools, hospitals, nursing homes, religious institutions, libraries, and similar uses.
 - (c) Noise Standards for Stationary Noise Sources.
- (1) Noise Standards. Table 83-2 (Noise Standards for Stationary Noise Sources) describes the noise standard for emanations from a stationary noise source, as it affects adjacent properties:

| Table 83-2 | | | | |
|--|-------------------------|-------------------------|--|--|
| Noise Standards for Stationary Noise Sources | | | | |
| Affected Land Uses (Receiving Noise) | 7:00 a.m 10:00 p.m. Leq | 10:00 р.т 7:00 а.т. Leq | | |
| Residential | 55 dB(A) | 45 dB(A) | | |
| Professional Services | 55 dB(A) | 55 dB(A) | | |
| Other Commercial | 60 dB(A) | 60 dB(A) | | |
| Industrial | 70 dB(A) | 70 dB(A) | | |

Leq = (Equivalent Energy Level). The sound level corresponding to a steady-state sound level containing the same total energy as a time-varying signal over a given sample period, typically one, eight or 24 hours.

dB(A) = (A-weighted Sound Pressure Level). The sound pressure level, in decibels, as measured on a sound level meter using the A-weighting filter network. The A-weighting filter deemphasizes the very low and very high frequency components of the sound, placing greater emphasis on those frequencies within the sensitivity range of the human ear.

Ldn = (Day-Night Noise Level). The average equivalent A-weighted sound level during a 24-hour day obtained by adding 10 decibels to the hourly noise levels measured during the night (from 10:00 p.m. to 7:00 a.m.). In this way Ldn takes into account the lower tolerance of people for noise during nighttime periods.

- (2) Noise Limit Categories. No person shall operate or cause to be operated a source of sound at a location or allow the creation of noise on property owned, leased, occupied, or otherwise controlled by the person, which causes the noise level, when measured on another property, either incorporated or unincorporated, to exceed any one of the following:
- (A) The noise standard for the receiving land use as specified in Subdivision (b) (Noise-Impacted Areas), above, for a cumulative period of more than 30 minutes in any hour.
 - (B) The noise standard plus five dB(A) for a cumulative period of more than 15 minutes in any hour.
 - (C) The noise standard plus ten dB(A) for a cumulative period of more than five minutes in any hour.
 - (D) The noise standard plus 15 dB(A) for a cumulative period of more than one minute in any hour.
 - (E) The noise standard plus 20 dB(A) for any period of time.
- (d) Noise Standards for Adjacent Mobile Noise Sources. Noise from mobile sources may affect adjacent properties adversely. When it does, the noise shall be mitigated for any new development to a level that shall not exceed the standards described in the following Table 83-3 (Noise Standards for Adjacent Mobile Noise Sources).

| Noise Standards for Adjacent Mobile Noise Sources | | | | | |
|---|--|---------------------|-------------------|--|--|
| | Land Use | Ldn (or CNEL) dB(A) | | | |
| Categories | Uses | Interior (1) | Exterior (2) | | |
| Residential | Single and multi-family, duplex, mobile homes | 45 | 60 ⁽³⁾ | | |
| Commercial | Hotel, motel, transient housing | 45 | 60 ⁽³⁾ | | |
| | Commercial retail, bank, restaurant | 50 | N/A | | |
| | Office building, research and development, professional offices | 45 | 65 | | |
| | Amphitheater, concert hall, auditorium, movie theater | 45 | N/A | | |
| Institutional/Pub | lic Hospital, nursing home, school classroom, religious institution, library | 45 | 65 | | |
| Open Space | Park | N/A | 65 | | |

Table 83-3

Notes:

- (1) The indoor environment shall exclude bathrooms, kitchens, toilets, closets and corridors.
- (2) The outdoor environment shall be limited to:
 - · Hospital/office building patios
 - · Hotel and motel recreation areas
 - · Mobile home parks
 - · Multi-family private patios or balconies
 - · Park picnic areas
 - · Private yard of single-family dwellings
 - · School playgrounds
- (3) An exterior noise level of up to 65 dB(A) (or CNEL) shall be allowed provided exterior noise levels have been substantially mitigated through a reasonable application of the best available noise reduction technology, and interior noise exposure does not exceed 45 dB(A) (or CNEL) with windows and doors closed. Requiring that windows and doors remain closed to achieve an acceptable interior noise level shall necessitate the use of air conditioning or mechanical ventilation.

CNEL = (Community Noise Equivalent Level). The average equivalent A-weighted sound level during a 24-hour day, obtained after addition of approximately five decibels to sound levels in the evening from 7:00 p.m. to 10:00 p.m. and ten decibels to sound levels in the night from 10:00 p.m. to 7:00 a.m.

- (e) Increases in Allowable Noise Levels. If the measured ambient level exceeds any of the first four noise limit categories in Subdivision (d)(2), above, the allowable noise exposure standard shall be increased to reflect the ambient noise level. If the ambient noise level exceeds the fifth noise limit category in Subdivision (d)(2), above, the maximum allowable noise level under this category shall be increased to reflect the maximum ambient noise level.
- (f) Reductions in Allowable Noise Levels. If the alleged offense consists entirely of impact noise or simple tone noise, each of the noise levels in Table 83-2 (Noise Standards for Stationary Noise Sources) shall be reduced by five dB(A).
 - (g) Exempt Noise. The following sources of noise shall be exempt from the regulations of this Section:
 - (1) Motor vehicles not under the control of the commercial or industrial use.
 - (2) Emergency equipment, vehicles, and devices.
- (3) Temporary construction, maintenance, repair, or demolition activities between 7:00 a.m. and 7:00 p.m., except Sundays and Federal holidays.
- (h) Noise Standards for Other Structures. All other structures shall be sound attenuated against the combined input of all present and projected exterior noise to not exceed the criteria.

| Table 83-4 |
|--------------------------------------|
| Noise Standards for Other Structures |

| Typical Uses | 12-Hour Equivalent Sound Level (Interior) in dBA Ldn |
|---|---|
| Educational, institutions, libraries, meeting facilities, etc. | 45 |
| General office, reception, etc. | 50 |
| Retail stores, restaurants, etc. | 55 |
| Other areas for manufacturing, assembly, testing, warehousing, etc. | 65 |

In addition, the average of the maximum levels on the loudest of intrusive sounds occurring during a 24-hour period shall not exceed 65 dBA interior.

(Ord. 4011, passed - -2007; Am. Ord. 4245, passed - -2014)

§ 83.01.090 Vibration.

- (a) Vibration Standard. No ground vibration shall be allowed that can be felt without the aid of instruments at or beyond the lot line, nor shall any vibration be allowed which produces a particle velocity greater than or equal to two-tenths inches per second measured at or beyond the lot line.
- (b) Vibration Measurement. Vibration velocity shall be measured with a seismograph or other instrument capable of measuring and recording displacement and frequency, particle velocity, or acceleration. Readings shall be made at points of maximum vibration along any lot line next to a parcel within a residential, commercial and industrial land use zoning district.
 - (c) Exempt Vibrations. The following sources of vibration shall be exempt from the regulations of this Section.
 - (1) Motor vehicles not under the control of the subject use.
- (2) Temporary construction, maintenance, repair, or demolition activities between 7:00 a.m. and 7:00 p.m., except Sundays and Federal holidays.

(Ord. 4011, passed - -2007)

APPENDIX 5.1:

STUDY AREA PHOTOS

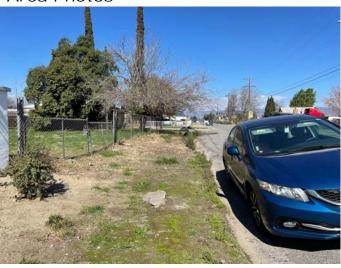


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L1_E 34, 3' 17.660000", 117, 24' 50.020000"



L1_N 34, 3' 17.660000", 117, 24' 50.020000"



L1_S 34, 3' 17.670000", 117, 24' 50.020000"



L1_W 34, 3' 17.730000", 117, 24' 50.020000"



L2_E 34, 3' 20.950000", 117, 24' 45.930000"



L2_N 34, 3' 20.930000", 117, 24' 45.900000"



12_5 34, 3' 20.930000", 117, 24' 45.820000"



L2_W 34, 3' 20.910000", 117, 24' 45.870000"



L3_E 34, 3' 11.040000", 117, 24' 33.790000"



L3_N 34, 3' 11.020000", 117, 24' 33.760000"



34, 3' 11.000000", 117, 24' 33.790000"



L3_W 34, 3' 10.970000", 117, 24' 33.790000"



L4_E 34, 3' 19.170000", 117, 24' 18.460000"



L4_N 34, 3' 20.210000", 117, 24' 18.220000"



L4_S 34, 3' 19.130000", 117, 24' 18.410000"



34, 3' 19.060000", 117, 24' 18.380000"



L5_E 34, 3' 3.240000", 117, 24' 18.490000"



L5_N 34, 3' 3.220000", 117, 24' 18.460000"



15_S 34, 3' 3.220000", 117, 24' 18.520000"



L5_W 34, 3' 3.240000", 117, 24' 18.570000"



L6_E 34, 3' 8.180000", 117, 24' 4.240000"



34, 3' 8.150000", 117, 24' 4.350000"



L6_S 34, 3' 8.170000", 117, 24' 4.240000"



L6_W 34, 3' 8.150000", 117, 24' 4.210000"



L7_E 34, 2' 54.600000", 117, 24' 3.250000"



L7_N 34, 2' 53.140000", 117, 24' 1.930000"



L7_S 34, 2' 54.590000", 117, 24' 3.220000"



34, 2' 54.600000", 117, 24' 3.250000"



L8_E 34, 2' 54.390000", 117, 24' 6.380000"



L8_N 34, 2' 54.390000", 117, 24' 6.380000"



L8_S 34, 2' 54.390000", 117, 24' 6.320000"



L8_W 34, 2' 54.380000", 117, 24' 6.350000"



L9_E 34, 3' 8.730000", 117, 24' 49.500000"



L9_N 34, 3' 9.640000", 117, 24' 47.440000"



34, 3' 8.580000", 117, 24' 49.530000"



L9_W 34, 3' 8.290000", 117, 24' 49.550000"

APPENDIX 5.2:

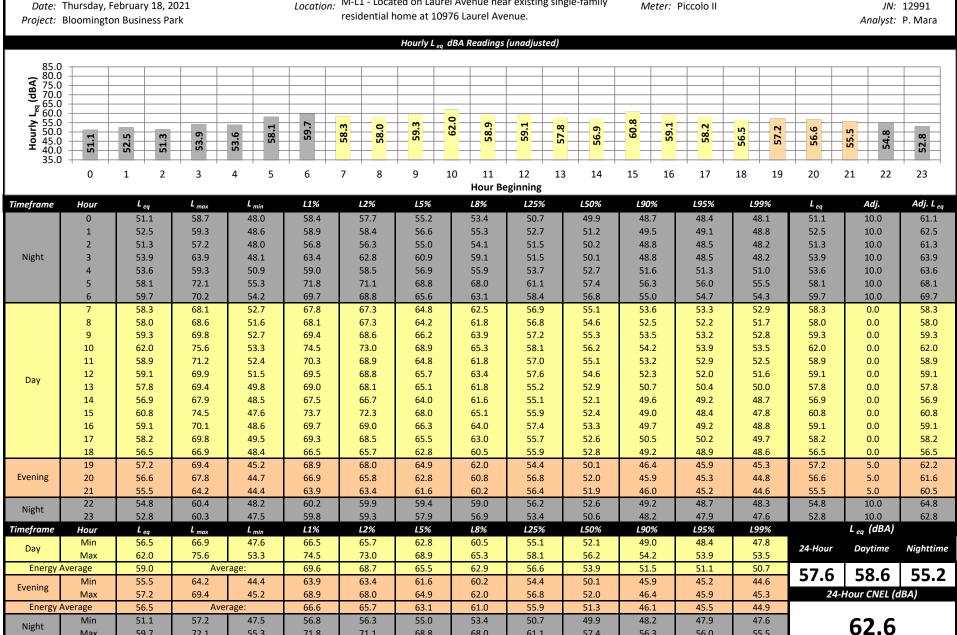
NOISE LEVEL MEASUREMENT WORKSHEETS



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M-L1 - Located on Laurel Avenue near existing single-family Location:





68.0

58.3

61.1

54.4

57.4

52.4

56.3

50.7

56.0

50.4

55.5

50.0

72.1

Average:

55.3

71.8

62.0

71.1

61.4

68.8

59.6

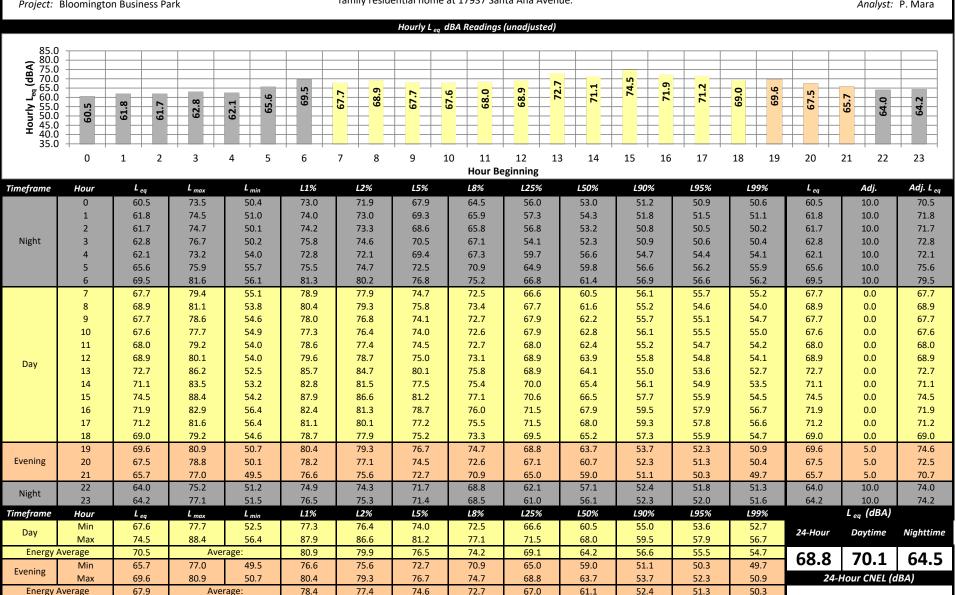
59.7

55.2

Energy Average

SP-L3 - Located on Santa Ana Avenue near existing single-Location:

Date: Thursday, February 18, 2021 JN: 12991 Meter: Piccolo II family residential home at 17937 Santa Ana Avenue. Project: Bloomington Business Park Analyst: P. Mara





72.7

64.5

75.2

68.2

54.1

66.8

59.9

52.3

61.4

56.0

50.8

56.9

53.1

50.5

56.6

52.7

50.2

56.2

52.4

73.2

81.6

Average:

50.1

72.8

81.3

75.3

71.9

80.2

74.4

67.9

76.8

70.9

60.5

69.5

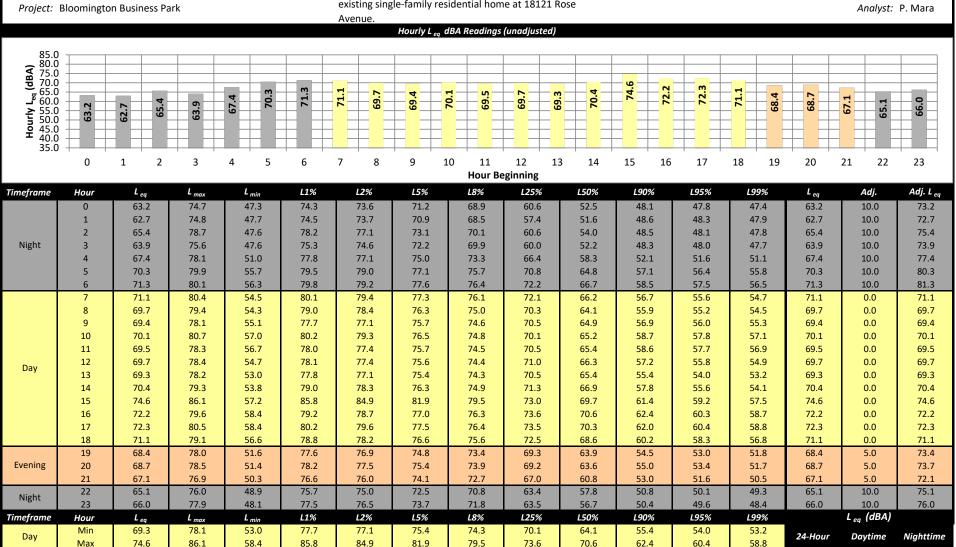
64.5

Night

Energy Average

P-L1, M-L3 - Located on Rose Avenue and Locust Avenue near Location: Date: Thursday, February 18, 2021 Meter: Piccolo II

existing single-family residential home at 18121 Rose





70.6

24-Hour CNEL (dBA)

74.5

67.2

56.0

50.5

51.8

51.4

47.4

56.5

50.2

69.6

JN: 12991

75.5

72.7

73.9

73.3

68.5

76.4

71.7

71.6

67.0

69.3

68.5

57.4

72.2

63.9

67.0

60.8

63.9

62.7

51.6

66.7

57.2

58.6

53.0

55.0

54.2

48.1

58.5

51.4

57.2

51.6

53.4

52.7

47.8

57.5

50.8

Average:

Average:

Average:

50.3

51.6

47.3

76.9

78.5

74.7

80.1

79.5

76.6

78.2

77.5

74.3

79.8

77.0

78.8

76.0

77.5

76.8

73.6

79.2

76.2

76.8

74.1

75.4

74.8

70.9

77.6

73.7

71.1

67.1

68.7

68.2

62.7

71.3

67.2

Energy Average

Energy Average

Energy Average

Evening

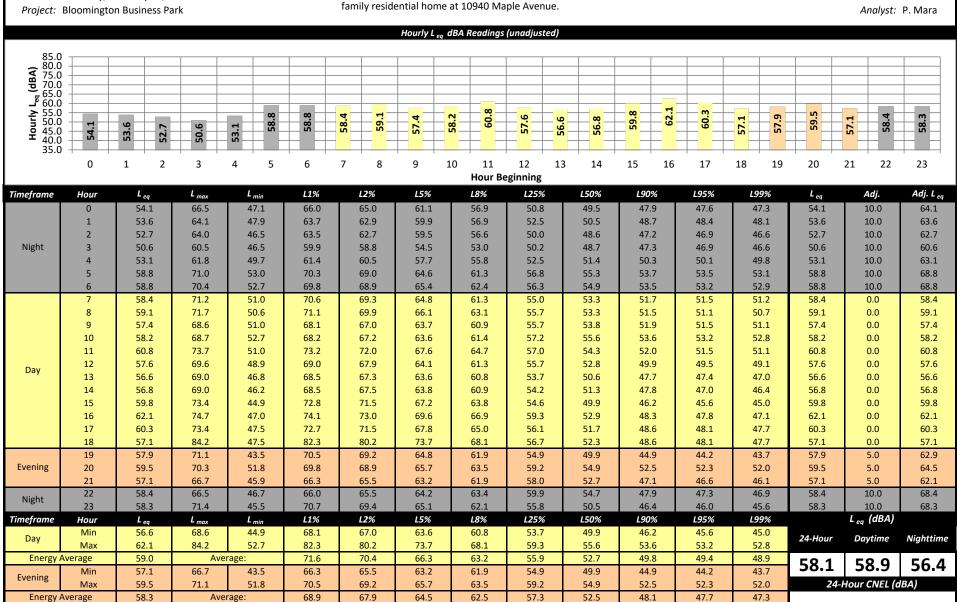
Night

Min

Max

SP-L5, M-L4 - Located on Maple Avenue near existing single-Location: Meter: Piccolo II

Date: Thursday, February 18, 2021 JN: 12991 family residential home at 10940 Maple Avenue. Analyst: P. Mara





63.6

53.0

63.4

58.7

50.0

59.9

53.9

48.6

55.3

51.6

46.4

53.7

49.2

46.0

53.5

48.9

45.6

53.1

48.5

60.5

71.4

Average:

59.9

70.7

65.7

45.5

58.8

69.4

64.7

54.5

65.4

61.3

50.6

58.8

56.4

Night

Energy Average

Meter: Piccolo II

Location: PL-2 - Located on Maple Avenue near existing single-family residential home at 11181 Maple Avenue.

Hourly L _{eq} dBA Readings (unadjusted) 85.0 80.0 75.0 70.0 655.0 66.0 45.0 40.0 35.0 60.9 56.6 **Hour Beginning**

| Timeframe | Hour | L eq | L max | L min | L1% | L2% | L5% | L8% | L25% | L50% | L90% | L95% | L99% | L eq | Adj. | Adj. L _{eq} |
|-----------|------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------|-----------------------|----------------------|
| | 0 | 51.9 | 61.0 | 47.8 | 60.5 | 59.5 | 56.5 | 54.5 | 51.3 | 50.2 | 48.6 | 48.3 | 48.0 | 51.9 | 10.0 | 61.9 |
| | 1 | 53.1 | 62.3 | 48.9 | 61.7 | 60.6 | 57.6 | 55.8 | 52.8 | 51.3 | 49.7 | 49.4 | 49.1 | 53.1 | 10.0 | 63.1 |
| | 2 | 56.8 | 71.2 | 48.0 | 70.2 | 68.3 | 62.5 | 58.4 | 53.3 | 50.7 | 48.8 | 48.5 | 48.1 | 56.8 | 10.0 | 66.8 |
| Night | 3 | 51.3 | 60.6 | 47.3 | 60.0 | 58.8 | 55.5 | 53.9 | 51.0 | 49.7 | 48.0 | 47.8 | 47.5 | 51.3 | 10.0 | 61.3 |
| | 4 | 53.9 | 62.9 | 50.4 | 62.2 | 61.1 | 58.2 | 56.5 | 53.5 | 52.2 | 51.0 | 50.8 | 50.5 | 53.9 | 10.0 | 63.9 |
| | 5 | 60.3 | 70.5 | 54.4 | 69.9 | 68.8 | 65.6 | 63.7 | 60.0 | 57.7 | 55.2 | 54.8 | 54.5 | 60.3 | 10.0 | 70.3 |
| | 6 | 59.2 | 68.8 | 53.9 | 68.2 | 67.2 | 64.5 | 62.7 | 58.8 | 56.7 | 54.6 | 54.3 | 54.0 | 59.2 | 10.0 | 69.2 |
| | 7 | 59.7 | 71.6 | 52.7 | 70.9 | 69.6 | 65.9 | 63.1 | 58.2 | 55.7 | 53.5 | 53.1 | 52.8 | 59.7 | 0.0 | 59.7 |
| | 8 | 60.9 | 72.8 | 52.5 | 72.1 | 70.6 | 66.7 | 64.4 | 60.0 | 56.8 | 53.5 | 53.0 | 52.6 | 60.9 | 0.0 | 60.9 |
| | 9 | 60.7 | 69.8 | 53.4 | 69.3 | 68.4 | 66.2 | 64.7 | 61.0 | 58.0 | 54.4 | 53.9 | 53.5 | 60.7 | 0.0 | 60.7 |
| | 10 | 62.4 | 71.3 | 54.7 | 70.8 | 70.1 | 68.1 | 66.7 | 62.7 | 59.8 | 55.9 | 55.3 | 54.8 | 62.4 | 0.0 | 62.4 |
| | 11 | 61.9 | 72.8 | 53.3 | 72.1 | 70.9 | 68.1 | 66.5 | 61.1 | 57.9 | 54.5 | 54.0 | 53.5 | 61.9 | 0.0 | 61.9 |
| Day | 12 | 64.1 | 76.8 | 51.2 | 76.2 | 75.6 | 72.2 | 68.1 | 59.2 | 55.6 | 52.2 | 51.8 | 51.4 | 64.1 | 0.0 | 64.1 |
| 24, | 13 | 57.1 | 68.1 | 49.1 | 67.4 | 66.3 | 63.4 | 61.2 | 56.3 | 53.1 | 50.1 | 49.6 | 49.2 | 57.1 | 0.0 | 57.1 |
| | 14 | 57.0 | 69.7 | 47.4 | 69.0 | 67.8 | 63.7 | 61.0 | 54.0 | 51.1 | 48.3 | 48.0 | 47.5 | 57.0 | 0.0 | 57.0 |
| | 15 | 58.7 | 72.0 | 46.0 | 71.3 | 70.0 | 66.4 | 63.9 | 53.1 | 49.4 | 46.9 | 46.5 | 46.1 | 58.7 | 0.0 | 58.7 |
| | 16 | 65.7 | 80.6 | 48.3 | 79.6 | 78.1 | 73.2 | 67.8 | 57.7 | 52.6 | 49.3 | 48.9 | 48.5 | 65.7 | 0.0 | 65.7 |
| | 17 | 59.9 | 73.3 | 48.8 | 72.5 | 71.1 | 66.9 | 63.8 | 56.1 | 52.2 | 49.6 | 49.3 | 49.0 | 59.9 | 0.0 | 59.9 |
| | 18 | 60.9 | 73.9 | 48.9 | 73.1 | 71.8 | 68.3 | 65.8 | 57.8 | 52.8 | 49.7 | 49.4 | 49.0 | 60.9 | 0.0 | 60.9 |
| | 19 | 56.6 | 69.8 | 44.8 | 68.9 | 67.5 | 63.3 | 60.5 | 54.4 | 50.1 | 45.9 | 45.4 | 45.0 | 56.6 | 5.0 | 61.6 |
| Evening | 20 | 57.9 | 70.0 | 45.5 | 69.3 | 68.0 | 64.2 | 61.6 | 57.6 | 52.7 | 46.9 | 46.4 | 45.7 | 57.9 | 5.0 | 62.9 |
| | 21 | 56.8 | 67.8 | 44.5 | 67.1 | 65.8 | 62.4 | 60.7 | 57.4 | 52.7 | 46.4 | 45.7 | 44.7 | 56.8 | 5.0 | 61.8 |
| Night | 22 | 56.4 | 66.7 | 46.7 | 66.2 | 65.3 | 62.3 | 60.2 | 56.7 | 53.1 | 47.8 | 47.4 | 46.9 | 56.4 | 10.0 | 66.4 |
| | 23 | 54.8 | 67.1 | 45.6 | 66.3 | 64.9 | 60.6 | 58.0 | 53.8 | 50.6 | 46.5 | 46.1 | 45.8 | 54.8 | 10.0 | 64.8 |
| Timeframe | Hour | L eq | L max | L min | L1% | L2% | L5% | L8% | L25% | L50% | L90% | L95% | L99% | | L _{eq} (dBA) | |
| Day | Min | 57.0 | 68.1 | 46.0 | 67.4 | 66.3 | 63.4 | 61.0 | 53.1 | 49.4 | 46.9 | 46.5 | 46.1 | 24-Hour | Daytime | Nighttime |
| - Francis | Max | 65.7 | 80.6 | 54.7 | 79.6 | 78.1 | 73.2 | 68.1 | 62.7 | 59.8 | 55.9 | 55.3 | 54.8 | | | |
| Energy | Average | 61.5 | | rage: | 72.0 | 70.9 | 67.4 | 64.8 | 58.1 | 54.6 | 51.5 | 51.1 | 50.7 44.7 | 59.7 | 60.9 | 56.3 |
| Evening | Min Max | 56.6 57.9 | 67.8 70.0 | 44.5 45.5 | 67.1 69.3 | 65.8 68.0 | 62.4 64.2 | 60.5 | 54.4 57.6 | 50.1 52.7 | 45.9 46.0 | 45.4 46.4 | 44.7 45.7 | | Hour CNEL (d | |
| Energy | Average | 57.9 | | 45.5 rage: | 68.5 | 67.1 | 63.3 | 61.6 60.9 | 56.5 | 52.7 | 46.9 46.4 | 46.4 45.8 | 45.7 45.1 | 24- | HOUI CINEL (C | IDA) |
| Ellergy | Min | 51.3 | 60.6 | 45.6 | 60.0 | 58.8 | 55.5 | 53.9 | 51.0 | 49.7 | 46.4 | 45.8 | 45.1 | | | |
| Night | Max | 60.3 | 71.2 | 54.4 | 70.2 | 68.8 | 65.6 | 63.7 | 60.0 | 57.7 | 55.2 | 54.8 | 54.5 | | 64.0 | |
| Fnergy | Average | 56.3 | | rage: | 65.0 | 63.8 | 60.4 | 58.2 | 54.6 | 52.5 | 50.0 | 49.7 | 49.4 | | | |
| Litergy | / werage | 30.3 | AVC | ubc. | 03.0 | 03.8 | 00.4 | 30.2 | 34.0 | 32.3 | 30.0 | 43.7 | 43.4 | | | |



JN: 12991

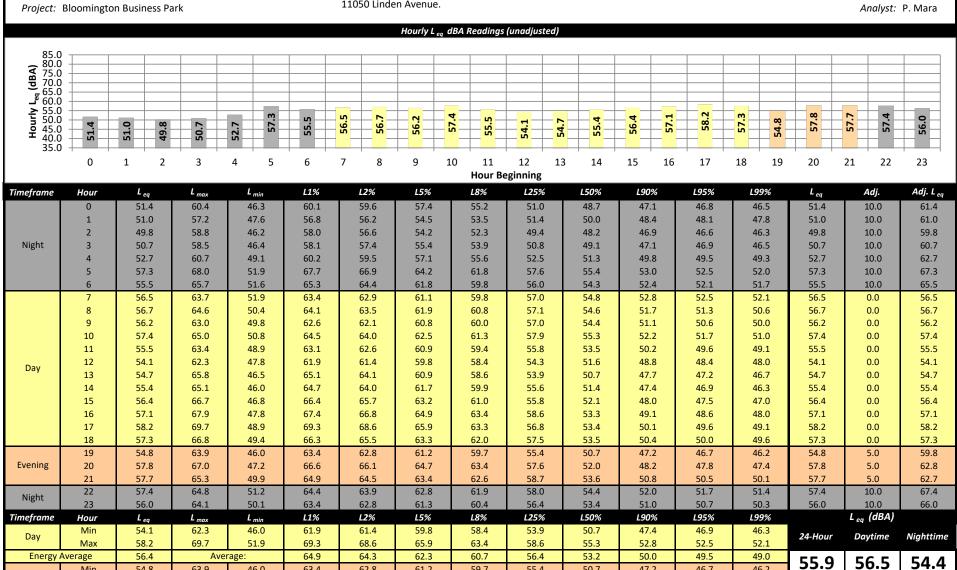
Analyst: P. Mara

Date: Thursday, February 18, 2021

Project: Bloomington Business Park

M-L6 - Located by Walter Zimmerman Elementary School at Location: Meter: Piccolo II

11050 Linden Avenue.



| | Max | 58.2 | 69.7 | 51.9 | 69.3 | 68.6 | 65.9 | 63.4 | 58.6 | 55.3 | 52.8 | 52.5 | 52.1 | | | |
|---------|-----------|------|------|-------|------|------|------|------|------|------|------|------|------|------|--------------|------|
| Energ | y Average | 56.4 | Ave | rage: | 64.9 | 64.3 | 62.3 | 60.7 | 56.4 | 53.2 | 50.0 | 49.5 | 49.0 | 55.9 | 56.5 | 54.4 |
| Evening | Min | 54.8 | 63.9 | 46.0 | 63.4 | 62.8 | 61.2 | 59.7 | 55.4 | 50.7 | 47.2 | 46.7 | 46.2 | 33.3 | 30.3 | 54.4 |
| Evening | Max | 57.8 | 67.0 | 49.9 | 66.6 | 66.1 | 64.7 | 63.4 | 58.7 | 53.6 | 50.8 | 50.5 | 50.1 | 24- | Hour CNEL (d | IBA) |
| Energ | y Average | 57.0 | Ave | rage: | 65.0 | 64.5 | 63.1 | 61.9 | 57.2 | 52.1 | 48.7 | 48.3 | 47.9 | | | |
| Night | Min | 49.8 | 57.2 | 46.2 | 56.8 | 56.2 | 54.2 | 52.3 | 49.4 | 48.2 | 46.9 | 46.6 | 46.3 | | 61 6 | |
| Might | Max | 57.4 | 68.0 | 51.9 | 67.7 | 66.9 | 64.2 | 61.9 | 58.0 | 55.4 | 53.0 | 52.5 | 52.0 | | от.о | |
| Energ | y Average | 54.4 | Ave | rage: | 61.6 | 60.8 | 58.8 | 57.1 | 53.7 | 51.6 | 49.7 | 49.4 | 49.1 | | | |
| | | | | | | | | | | | | | | | | |



JN: 12991

Date: Thursday, February 18, 2021

Date: Thursday, February 18, 2021

Location: M-L7 - Located southeast of the Project site on Linden Avenue and Jurupa Avenue near existing single-family

Meter: Piccolo II

JN: 12991

| Project: | Bloomingto | on Business Pa | ark | | | | • | nue near exis 07 Jurupa Av | | amily | | | | | Analyst: | P. Mara |
|----------------------|------------|----------------|--------------|------------------|--------------|-----------------|--------------|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------|
| | | | | | | . co.uci.ciai i | | dBA Readings | | | | | | | | |
| 85.0 | | | | | | | | | | | | | | | | |
| _ 80.0 | | | | | | | | | | | | | | | | |
| 75.0 70.0 65.0 | | | | | | | | | | | | | | | | |
| 65.0 60.0 | | | | | | 5. | <u></u> | o n | | 6 | 71.2 | | 9.1. | | - LO | |
| 55.0 50.0 | 61.2 | 7.8 | | .2 | 64.9 | 69. | | 65.0 | | 66. | | | 7 66. | 63.1 | <u>ω</u> υ | - w |
| 50.0 | 19 | 61 | 2.1 | 58.2 | | 9 | | | i | ا ا | | | | <u> </u> | 9 | 61 |
| 후 45.0 40.0 | | | - I | | | | | | | | | | | | | |
| 35.0 | | | | | _ | | | | | | | | | | | |
| | 0 | 1 2 | 3 | 4 5 | 6 | 7 8 | 9 1 | 10 11 | . 12 1 | .3 14 | 15 16 | 17 | 18 19 | 20 | 21 22 | 23 |
| | | | | | | | | | ginning | | | | | | | |
| eframe | Hour | L eq | L max | L min | L1% | L2% | L5% | L8% | L25% | L50% | L90% | L95% | L99% | L eq | Adj. | Adj. |
| | 0 | 61.2 | 71.1 | 48.3 | 70.8 | 70.5 | 69.3 | 67.9 | 58.1 | 51.7 | 49.1 | 48.8 | 48.4 | 61.2 | 10.0 | 71 |
| | 1 | 57.8 | 68.0 | 49.3 | 67.6 | 67.1 | 64.9 | 62.8 | 57.0 | 52.4 | 50.0 | 49.7 | 49.4 | 57.8 | 10.0 | 67 |
| | 2 | 61.3 | 73.3 | 47.6 | 73.1 | 72.6 | 70.3 | 67.8 | 53.4 | 50.3 | 48.2 | 48.0 | 47.7 | 61.3 | 10.0 | 71 |
| ight | 3 | 55.1 | 64.4 | 47.8 | 64.1 | 63.5 | 62.0 | 60.5 | 54.2 | 51.5 | 48.7 | 48.3 | 48.0 | 55.1 | 10.0 | 65 |
| | 4 | 58.2 63.9 | 67.5 73.5 | 50.7 53.7 | 67.1 | 66.6 72.6 | 65.1 71.2 | 63.6 69.9 | 57.5 | 54.3 | 51.4 | 51.1 | 50.8 | 58.2 63.9 | 10.0 10.0 | 68 |
| | 5 6 | 64.9 | 73.5 76.7 | 54.4 | 73.2 75.8 | 72.6 75.0 | 71.2 | 70.5 | 63.0 61.7 | 58.2 57.9 | 54.8 55.3 | 54.3 54.9 | 53.8 54.5 | 64.9 | 10.0 | 73 74 |
| | 7 | 63.4 | 76.7 | 54.4 | 72.3 | 71.8 | 70.2 | 68.7 | 62.8 | 59.1 | 55.4 | 55.0 | 54.5 | 63.4 | 0.0 | 63 |
| | 8 | 69.5 | 79.7 | 56.5 | 79.2 | 78.4 | 76.5 | 74.9 | 69.8 | 63.2 | 58.1 | 57.5 | 56.7 | 69.5 | 0.0 | 69 |
| | 9 | 66.8 | 76.8 | 57.8 | 76.4 | 75.7 | 73.5 | 71.5 | 66.1 | 62.9 | 59.6 | 58.8 | 58.0 | 66.8 | 0.0 | 66 |
| | 10 | 65.9 | 76.0 | 56.1 | 75.8 | 75.2 | 73.3 | 71.4 | 64.3 | 61.1 | 57.3 | 56.9 | 56.3 | 65.9 | 0.0 | 65 |
| | 11 | 66.5 | 77.2 | 53.5 | 76.7 | 76.2 | 74.2 | 72.5 | 64.5 | 59.0 | 54.8 | 54.2 | 53.7 | 66.5 | 0.0 | 66 |
| Day | 12 | 66.1 | 77.9 | 52.3 | 77.5 | 76.9 | 74.2 | 71.1 | 63.2 | 58.5 | 54.0 | 53.3 | 52.5 | 66.1 | 0.0 | 66 |
| Day | 13 | 62.7 | 73.1 | 50.7 | 72.6 | 71.9 | 70.3 | 68.3 | 61.6 | 57.2 | 52.4 | 51.7 | 50.9 | 62.7 | 0.0 | 62 |
| | 14 | 66.9 | 78.8 | 51.4 | 78.2 | 77.3 | 74.6 | 72.2 | 64.2 | 58.6 | 53.2 | 52.3 | 51.5 | 66.9 | 0.0 | 66 |
| | 15 | 71.2 | 82.9 | 52.8 | 82.4 | 81.6 | 79.3 | 77.9 | 65.5 | 60.0 | 55.0 | 54.1 | 53.1 | 71.2 | 0.0 | 71 |
| | 16 | 67.9 | 78.1 | 55.2 | 77.5 | 76.7 | 75.0 | 73.5 | 67.5 | 62.4 | 57.0 | 56.2 | 55.4 | 67.9 | 0.0 | 67 |
| | 17 | 71.7 | 84.6 | 55.2 | 84.1 | 83.2 | 79.9 | 76.5 | 67.5 | 62.1 | 57.0 | 56.2 | 55.5 | 71.7 | 0.0 | 71 |
| | 18 | 71.6 | 85.3 | 54.2 | 85.0 | 83.7 | 79.2 | 74.9 | 65.1 | 60.7 | 55.8 | 55.0 | 54.3 | 71.6 | 0.0 | 71 |
| onina | 19 | 66.9 | 78.8 | 49.7 | 78.3 | 77.7 | 75.0 | 72.9 | 63.0 | 57.7 | 51.5 | 50.7 | 49.9 | 66.9 | 5.0 | 71 |
| ening/ | 20 | 63.1 62.3 | 73.8 72.8 | 49.1 49.9 | 73.4 | 72.9 | 70.9 69.5 | 68.7 67.1 | 61.7 61.4 | 56.6 | 50.8 | 50.0 | 49.3 50.1 | 63.1 62.3 | 5.0 5.0 | 68 67 |
| | 21 | 65.5 | 72.8 | 52.4 | 72.6 76.8 | 72.1 76.1 | 74.0 | 70.3 | 61.4 | 56.8 57.0 | 51.2 53.3 | 50.6 52.9 | 52.5 | 65.5 | 10.0 | 75 |
| Night | 23 | 61.3 | 71.7 | 50.6 | 70.8 | 71.0 | 69.6 | 67.3 | 57.8 | 54.1 | 51.3 | 51.1 | 50.7 | 61.3 | 10.0 | 73 |
| eframe | Hour | L eq | L max | L _{min} | L1% | L2% | L5% | L8% | L25% | L50% | L90% | L95% | L99% | 01.0 | L eq (dBA) | , 1 |

| | IVIAX | /1./ | 63.3 | 37.8 | 83.0 | 65.7 | 75.5 | 77.5 | 09.8 | 03.2 | 39.0 | 36.6 | 36.0 | | | |
|---------|---------|------|------|-------|------|------|------|------|------|------|------|------|------|------|--------------|------|
| Energy | Average | 68.4 | Ave | rage: | 78.1 | 77.4 | 75.0 | 72.8 | 65.2 | 60.4 | 55.8 | 55.1 | 54.4 | 66.5 | 67.0 | 62.1 |
| Evening | Min | 62.3 | 72.8 | 49.1 | 72.6 | 72.1 | 69.5 | 67.1 | 61.4 | 56.6 | 50.8 | 50.0 | 49.3 | 00.5 | 67.9 | 02.1 |
| Evering | Max | 66.9 | 78.8 | 49.9 | 78.3 | 77.7 | 75.0 | 72.9 | 63.0 | 57.7 | 51.5 | 50.7 | 50.1 | 24-1 | Hour CNEL (d | BA) |
| Energy | Average | 64.6 | Ave | rage: | 74.8 | 74.2 | 71.8 | 69.6 | 62.0 | 57.0 | 51.1 | 50.4 | 49.8 | | | |
| Night | Min | 55.1 | 64.4 | 47.6 | 64.1 | 63.5 | 62.0 | 60.5 | 53.4 | 50.3 | 48.2 | 48.0 | 47.7 | 1 | 70.2 | |
| Mignt | Max | 65.5 | 77.1 | 54.4 | 76.8 | 76.1 | 74.0 | 70.5 | 63.0 | 58.2 | 55.3 | 54.9 | 54.5 | | 70.5 | |
| Energy | Average | 62.1 | Ave | rage: | 71.1 | 70.5 | 68.8 | 66.7 | 58.2 | 54.2 | 51.4 | 51.0 | 50.6 | | | |
| | | | | | | | | | | | | | | | | |

68.3

61.6

57.2

52.4

51.7

50.9

24-Hour



Daytime

Nighttime

72.7

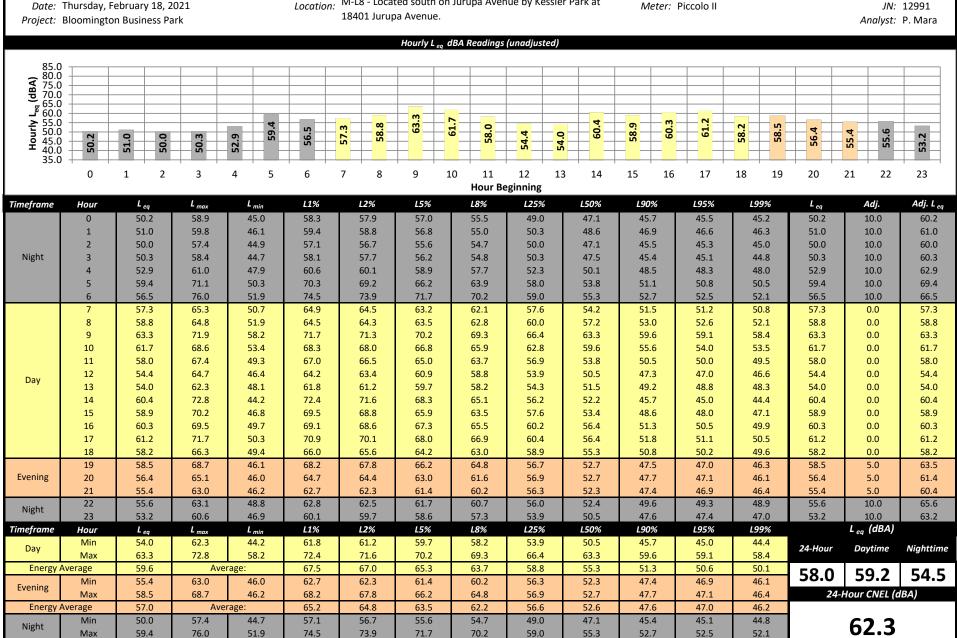
50.7

72.3

71.8

70.2

M-L8 - Located south on Jurupa Avenue by Kessler Park at Location: Meter: Piccolo II





58.8

53.2

50.3

48.1

47.9

47.5

54.5

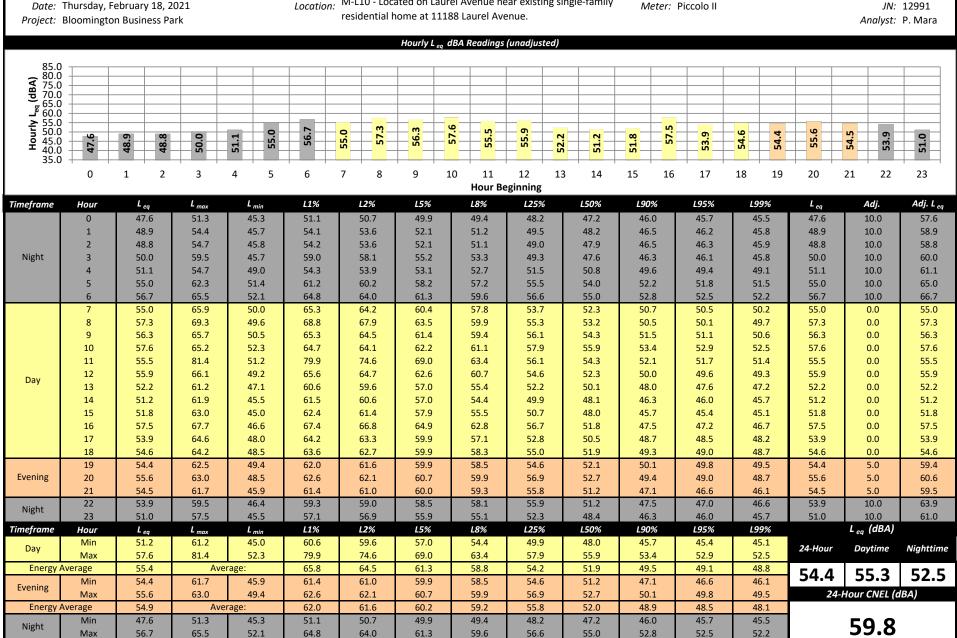
Energy Average

Average:

62.4

61.9

M-L10 - Located on Laurel Avenue near existing single-family Location:





54.2

52.0

50.0

48.2

47.9

47.6

52.5

Energy Average

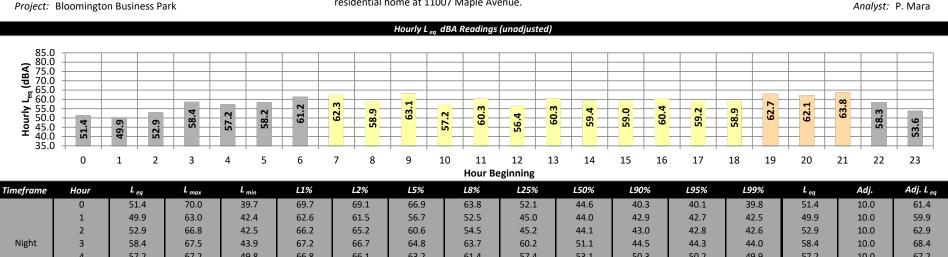
Average:

57.2

56.7

Location: SP-L2 - Located on Maple Avenue near existing single-family Meter: Piccolo II

Date: Wednesday, April 28, 2021 residential home at 11007 Maple Avenue. Project: Bloomington Business Park

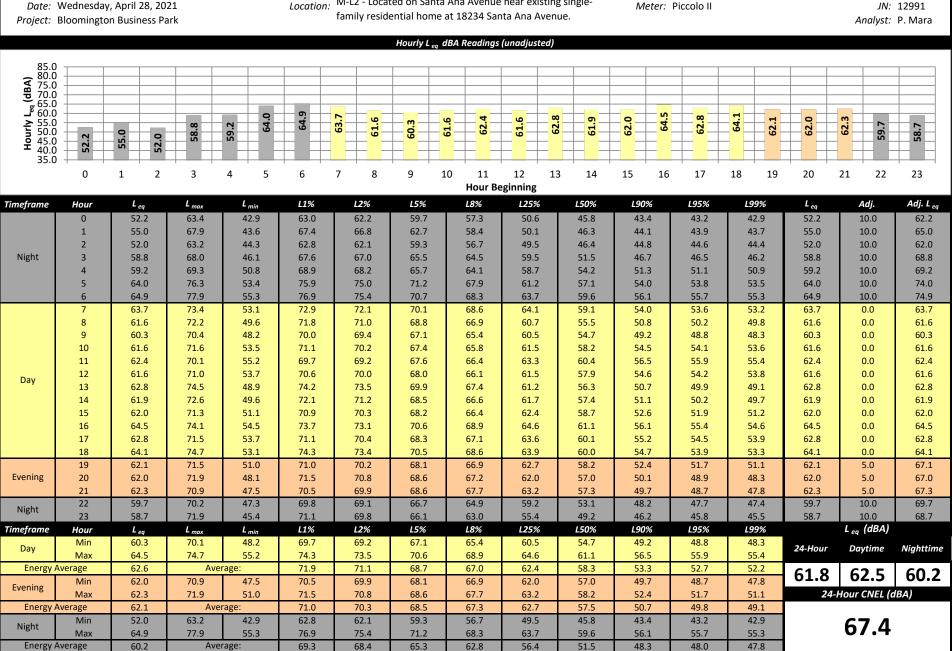


| Timeframe | Hour | L _{eq} | L max | L min | L1% | L2% | L5% | L8% | L25% | L50% | L90% | L95% | L99% | L _{eq} | Adj. | Adj. L _{eq} |
|-----------|--------------------|----------------------|-------|--------------------------|--------------------|---------------------|--------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------|-------------------------------|----------------------|
| | 0 | 51.4 | 70.0 | 39.7 | 69.7 | 69.1 | 66.9 | 63.8 | 52.1 | 44.6 | 40.3 | 40.1 | 39.8 | 51.4 | 10.0 | 61.4 |
| | 1 | 49.9 | 63.0 | 42.4 | 62.6 | 61.5 | 56.7 | 52.5 | 45.0 | 44.0 | 42.9 | 42.7 | 42.5 | 49.9 | 10.0 | 59.9 |
| | 2 | 52.9 | 66.8 | 42.5 | 66.2 | 65.2 | 60.6 | 54.5 | 45.2 | 44.1 | 43.0 | 42.8 | 42.6 | 52.9 | 10.0 | 62.9 |
| Night | 3 | 58.4 | 67.5 | 43.9 | 67.2 | 66.7 | 64.8 | 63.7 | 60.2 | 51.1 | 44.5 | 44.3 | 44.0 | 58.4 | 10.0 | 68.4 |
| | 4 | 57.2 | 67.2 | 49.8 | 66.8 | 66.1 | 63.2 | 61.4 | 57.4 | 53.1 | 50.3 | 50.2 | 49.9 | 57.2 | 10.0 | 67.2 |
| | 5 | 58.2 | 69.2 | 51.6 | 68.7 | 67.8 | 64.6 | 62.3 | 56.6 | 53.5 | 52.1 | 51.9 | 51.7 | 58.2 | 10.0 | 68.2 |
| | 6 | 61.2 | 72.3 | 53.4 | 71.8 | 70.9 | 67.9 | 65.6 | 60.1 | 56.3 | 54.0 | 53.8 | 53.5 | 61.2 | 10.0 | 71.2 |
| | 7 | 62.3 | 73.0 | 53.9 | 72.6 | 71.5 | 68.4 | 66.3 | 62.4 | 58.1 | 55.0 | 54.6 | 54.1 | 62.3 | 0.0 | 62.3 |
| | 8 | 58.9 | 70.3 | 47.7 | 69.9 | 69.0 | 65.9 | 63.5 | 57.5 | 53.2 | 48.9 | 48.5 | 47.9 | 58.9 | 0.0 | 58.9 |
| | 9 | 63.1 | 79.0 | 56.9 | 78.4 | 76.9 | 72.0 | 68.7 | 64.8 | 61.8 | 58.6 | 57.8 | 57.1 | 63.1 | 0.0 | 63.1 |
| | 10 | 57.2 | 69.7 | 48.4 | 69.0 | 67.6 | 64.0 | 61.4 | 54.5 | 51.2 | 49.3 | 48.9 | 48.5 | 57.2 | 0.0 | 57.2 |
| | 11 | 60.3 | 72.9 | 49.1 | 72.4 | 71.4 | 67.8 | 64.9 | 56.3 | 52.2 | 49.8 | 49.5 | 49.2 | 60.3 | 0.0 | 60.3 |
| Day | 12 | 56.4 | 68.6 | 48.6 | 68.0 | 67.0 | 63.6 | 60.7 | 53.8 | 51.4 | 49.4 | 49.1 | 48.8 | 56.4 | 0.0 | 56.4 |
| , | 13 | 60.3 | 73.1 | 44.7 | 72.4 | 71.1 | 67.5 | 65.0 | 57.7 | 51.8 | 46.1 | 45.5 | 44.9 | 60.3 | 0.0 | 60.3 |
| | 14 | 59.4 | 72.5 | 45.6 | 71.8 | 70.6 | 66.6 | 63.5 | 56.4 | 50.5 | 46.8 | 46.3 | 45.8 | 59.4 | 0.0 | 59.4 |
| | 15 | 59.0 | 70.7 | 48.4 | 70.2 | 69.2 | 65.8 | 63.2 | 57.2 | 54.1 | 50.6 | 50.0 | 49.0 | 59.0 | 0.0 | 59.0 |
| | 16 | 60.4 | 71.4 | 46.9 | 71.0 | 70.0 | 67.3 | 65.6 | 60.3 | 53.4 | 47.9 | 47.5 | 47.1 | 60.4 | 0.0 | 60.4 |
| | 17 | 59.2 | 71.4 | 46.4 | 70.8 | 69.9 | 66.7 | 64.3 | 56.7 | 50.5 | 47.4 | 47.0 | 46.6 | 59.2 | 0.0 | 59.2 |
| | 18 | 58.9 | 72.2 | 45.3 | 71.4 | 70.0 | 65.3 | 62.4 | 57.3 | 51.9 | 46.5 | 46.1 | 45.5 | 58.9 | 0.0 | 58.9 |
| | 19 | 62.7 | 72.8 | 53.0 | 72.3 | 71.4 | 68.8 | 67.2 | 62.4 | 59.1 | 55.1 | 54.2 | 53.3 | 62.7 | 5.0 | 67.7 |
| Evening | 20 | 62.1 | 71.0 | 53.6 | 70.6 | 69.8 | 67.5 | 66.1 | 62.8 | 59.1 | 55.7 | 54.7 | 54.0 | 62.1 | 5.0 | 67.1 |
| | 21 | 63.8 | 76.2 | 46.5 | 75.6 | 74.7 | 71.2 | 68.4 | 61.6 | 53.6 | 47.6 | 47.1 | 46.7 | 63.8 | 5.0 | 68.8 |
| Night | 22 | 58.3 | 69.9 | 45.4 | 69.4 | 68.4 | 64.8 | 62.6 | 58.1 | 51.7 | 46.3 | 46.0 | 45.6 | 58.3 | 10.0 | 68.3 |
| Timeframe | 23 | 53.6 | 65.6 | 44.2 | 65.2 L1% | 64.2 L2 % | 60.2 L5% | 57.1 L8% | 52.5 L25 % | 47.4 L50 % | 44.9 L90 % | 44.6 L95 % | 44.3 L99 % | 53.6 | 10.0 L _{eq} (dBA) | 63.6 |
| rimejrame | <i>Hour</i> Min | L _{eq} 56.4 | 68.6 | L _{min} 44.7 | 68.0 | 67.0 | 63.6 | 60.7 | 53.8 | 50.5 | 46.1 | 45.5 | 44.9 | | L eq (UDA) | |
| Day | Max | 63.1 | 79.0 | 56.9 | 78.4 | 76.9 | 72.0 | 68.7 | 64.8 | 61.8 | 58.6 | 57.8 | 57.1 | 24-Hour | Daytime | Nighttime |
| Energy / | | 60.0 | | rage: | 71.5 | 70.3 | 66.7 | 64.1 | 57.9 | 53.4 | 49.7 | 49.2 | 48.7 | | | |
| | Min | 62.1 | 71.0 | 46.5 | 70.6 | 69.8 | 67.5 | 66.1 | 61.6 | 53.6 | 47.6 | 47.1 | 46.7 | 59.7 | 60.8 | 57.0 |
| Evening | Max | 63.8 | 76.2 | 53.6 | 75.6 | 74.7 | 71.2 | 68.4 | 62.8 | 59.1 | 55.7 | 54.7 | 54.0 | 24- | Hour CNEL (a | (BA) |
| Energy / | | 62.9 | | rage: | 73.0 | 72.0 | 69.2 | 67.2 | 62.2 | 57.3 | 52.8 | 52.0 | 51.3 | | | |
| | Min | 49.9 | 63.0 | 39.7 | 62.6 | 61.5 | 56.7 | 52.5 | 45.0 | 44.0 | 40.3 | 40.1 | 39.8 | | CE A | |
| Night | Max | 61.2 | 72.3 | 53.4 | 71.8 | 70.9 | 67.9 | 65.6 | 60.2 | 56.3 | 54.0 | 53.8 | 53.5 | | 65.0 | |
| Energy / | | 57.0 | | rage: | 67.5 | 66.7 | 63.3 | 60.4 | 54.1 | 49.5 | 46.5 | 46.3 | 46.0 | | | |
| | | | | | | | | | | | | | | | | |



JN: 12991

M-L2 - Located on Santa Ana Avenue near existing single-Location:





62.8

56.4

51.5

48.3

48.0

47.8

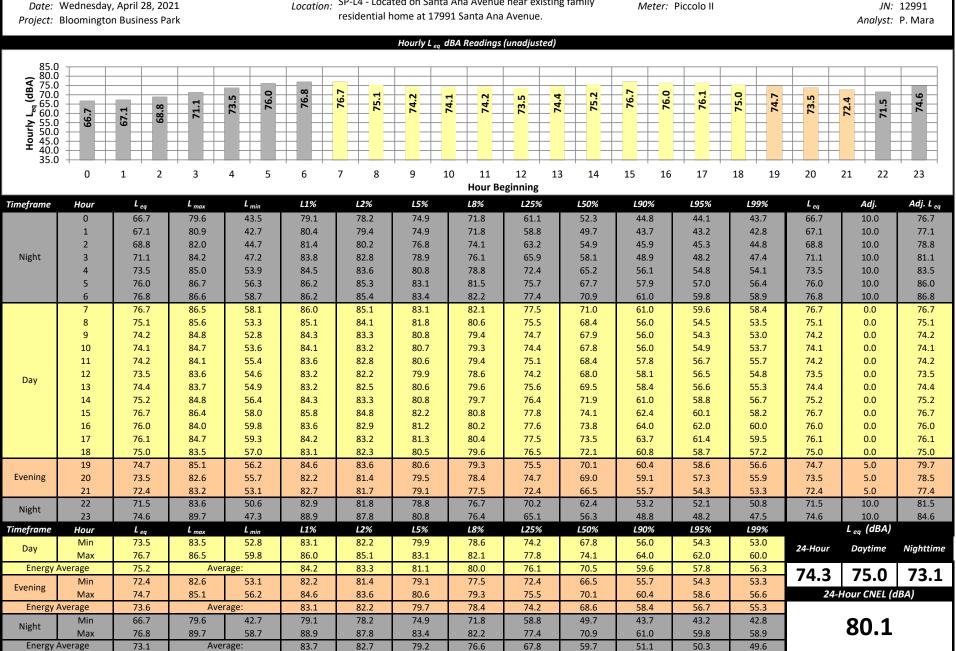
69.3

68.4

65.3

Energy Average

SP-L4 - Located on Santa Ana Avenue near existing family Location:





24-Hour Noise Level Measurement Summary M-L5 - Located on Santa Ana Avenue and Alder Avenue by Location: Date: Wednesday, April 28, 2021 JN: 12991 Meter: Piccolo II existing single-family residential home at 10866 Alder Project: Bloomington Business Park Analyst: P. Mara Avenue. Hourly L ea dBA Readings (unadjusted) 80.0 75.0 70.0 65.0 60.0 Hourly 155.0 55.0 45.0 45.0 40.0 40.0 35.0 2 6 7 8 9 20 22 0 3 4 10 11 12 13 14 15 16 17 18 19 21 23 **Hour Beginning** Adj. L _{eq} L1% L2% L5% L8% L25% L50% L90% L95% L99% **Timeframe** Hour L_{eq} L max L min L_{eq} Adj. 59.9 73.4 41.5 72.8 71.6 67.5 64.5 54.2 47.2 42.6 42.1 41.7 59.9 10.0 69.9 0 1 59.1 72.5 43.0 71.9 70.7 67.0 63.8 53.0 46.7 43.8 43.5 43.1 59.1 10.0 69.1 2 62.1 75.2 43.4 74.6 73.6 69.8 66.9 57.2 51.0 44.3 43.9 43.5 62.1 10.0 72.1 Night 3 63.8 77.0 45.4 76.2 74.8 71.3 68.9 60.1 54.0 46.4 45.9 45.5 63.8 10.0 73.8 4 65.5 77.1 50.9 76.5 75.4 72.9 71.2 63.9 57.2 51.9 51.5 51.0 65.5 10.0 75.5 5 68.6 79.8 53.0 79.3 78.3 75.6 73.8 53.1 68.0 61.2 53.9 53.4 68.6 10.0 78.6 6 69.0 79.4 54.6 78.8 77.8 75.7 74.3 69.3 63.4 55.8 55.2 54.7 69.0 10.0 79.0 81.7 52.3 81.0 79.6 76.2 74.3 63.3 54.2 53.2 52.4 0.0 69.8 69.8 69.4 69.8 8 66.7 77.4 48.7 76.8 75.7 73.3 72.1 67.0 60.2 50.8 49.8 49.0 66.7 0.0 66.7 9 76.5 48.3 76.0 74.9 72.2 70.7 50.9 49.7 48.5 65.7 65.8 59.6 65.7 0.0 65.7 10 66.5 78.6 49.1 77.8 76.5 73.4 71.4 65.7 59.2 51.0 50.0 49.3 66.5 0.0 66.5 11 66.1 77.0 50.2 76.2 75.1 72.5 66.5 50.5 66.1 71.1 60.8 52.5 51.4 0.0 66.1 12 76.7 50.0 76.0 74.9 71.9 70.4 50.9 50.2 0.0 65.6 65.8 60.4 51.8 65.6 65.6 Day 13 65.9 77.2 47.2 76.4 75.3 72.4 70.7 66.1 60.3 50.0 48.6 47.4 65.9 0.0 65.9 14 66.6 77.2 48.8 76.5 75.3 72.7 71.2 67.2 62.7 52.0 50.3 49.0 66.6 0.0 66.6 15 78.5 77.8 76.6 73.4 72.1 68.5 51.7 67.9 51.1 64.6 55.4 53.3 67.9 0.0 67.9 16 68.2 78.6 52.8 77.9 76.8 73.8 72.3 68.8 53.1 68.2 0.0 65.0 56.6 54.6 68.2 17 68.2 78.0 52.6 77.3 76.2 74.0 72.6 69.1 65.2 55.6 54.0 52.8 68.2 0.0 68.2 18 67.6 77.9 52.0 77.2 76.1 73.2 72.1 68.4 64.1 54.8 53.5 52.2 67.6 0.0 67.6 19 67.3 78.1 51.7 77.3 76.0 73.6 72.0 62.9 54.1 53.0 52.0 67.3 5.0 67.9 72.3 Evening 20 77.3 66.8 50.7 76.6 75.3 73.0 71.6 67.5 62.5 53.6 52.1 51.0 66.8 5.0 71.8 70.9 21 65.9 76.4 50.8 75.8 74.9 72.5 71.0 66.0 61.1 52.6 51.6 51.0 65.9 5.0 22 63.8 75.2 48.3 74.5 73.3 70.9 56.7 50.4 49.1 48.5 63.8 10.0 73.8 69.2 62.8 Night 23 62.1 76.4 45.6 74.9 73.3 69.1 66.3 58.5 53.0 47.0 46.4 45.8 62.1 10.0 72.1 L2% L5% L25% L50% L95% L99% Lea (dBA) Timeframe L1% L8% L90% Hour L_{eq} L max L min Min 65.6 76.5 47.2 76.0 74.9 71.9 70.4 65.7 59.2 50.0 48.6 47.4 24-Hour Daytime Nighttime Day 69.8 81.7 52.8 81.0 79.6 76.2 74.3 69.4 56.6 54.6 53.1 Max 65.2 50.5 **Energy Average** 67.3 Average: 77.2 76.1 73.2 71.7 67.4 62.1 53.0 51.6 66.5 67.2 65.0 65.9 76.4 50.7 75.8 74.9 72.5 71.0 66.0 61.1 52.6 51.6 51.0 Min Evening 67.3 77.3 76.0 73.6 72.0 67.9 53.0 52.0 24-Hour CNEL (dBA) 78.1 51.7 62.9 54.1 Max **Energy Average** 66.7 Average: 76.6 75.4 73.0 71.5 67.1 62.1 53.4 52.3 51.3 59.1 72.5 71.9 70.7 67.0 63.8 53.0 46.7 42.6 42.1 41.7



72.2

74.3

68.8

69.3

60.8

63.4

54.5

55.8

48.5

55.2

47.9

54.7

47.5

Average:

79.8

69.0

65.0

Night

Energy Average

41.5

54.6

79.3

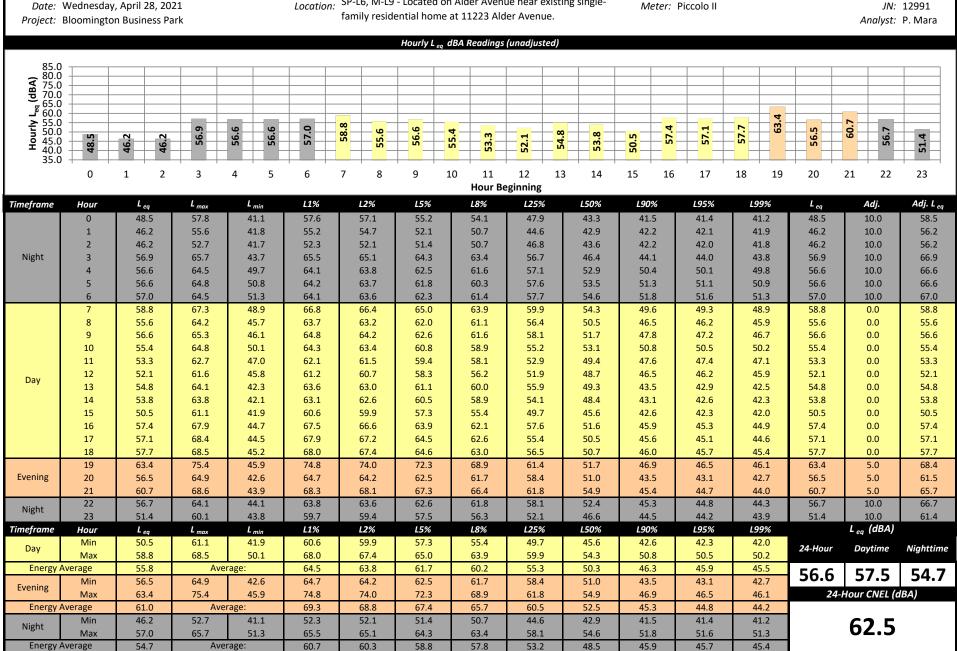
75.5

78.3

74.3

75.7

SP-L6, M-L9 - Located on Alder Avenue near existing single-Location:

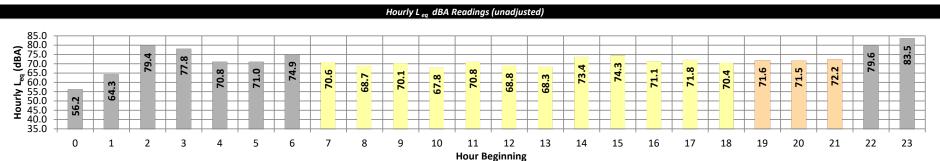




Location: SP-L1 - Located near existing single-family residential home Meter: Piccolo II

Project: Bloomington Business Park at 11178 Locust Avenue.

Date: Wednesday, April 28, 2021



| 0 56.2 68.3 42.8 68.1 67.4 66.3 60.7 52.7 48.0 43.6 43.2 42.9 56.2 10.0 66. 1 66.3 76.9 44.4 76.3 75.4 73.0 70.8 56.2 50.4 45.7 45.1 44.5 64.3 10.0 74. 2 79.4 87.4 45.5 86.8 86.4 85.6 85.0 82.1 72.3 55.6 52.7 50.0 79.4 10.0 89. Night 3 77.8 83.7 47.6 83.1 82.8 82.2 81.9 80.2 76.2 63.6 61.2 58.7 77.8 10.0 87. 4 70.8 85.3 52.4 83.7 82.8 78.9 75.3 63.0 57.4 53.4 52.9 52.5 70.8 10.0 87. 6 74.9 88.4 54.8 87.4 86.4 83.8 80.0 66.3 61.4 55.8 55.3 55.2 54.8 71.0 10.0 81. 6 74.9 88.4 54.8 87.4 86.4 83.8 80.0 66.3 61.4 55.8 55.3 55.2 54.8 71.0 10.0 81. 7 7 70.6 83.5 53.4 82.4 81.3 77.8 75.4 66.3 61.2 55.1 54.0 53.2 68.7 0.0 68. 8 68.7 80.4 53.1 80.0 79.2 76.2 74.1 66.3 61.2 55.1 54.0 53.2 68.7 0.0 68. 9 70.1 83.3 50.8 82.4 81.0 78.1 75.3 66.5 60.1 52.7 51.8 51.0 70.1 0.0 70. 10 67.8 79.8 52.2 79.3 78.4 75.6 72.9 65.2 60.1 53.8 52.9 52.4 67.8 0.0 67. 11 70.8 84.8 52.1 84.0 82.7 78.4 74.2 65.5 60.1 53.7 52.9 52.2 70.8 0.0 70. 11 70.8 88.8 14.5 50.5 80.8 79.8 79.8 76.8 73.8 65.2 59.7 52.7 51.9 50.7 68.8 0.0 66.8 11.4 73.4 86.7 52.4 86.1 85.2 86.2 79.3 78.4 75.6 72.9 65.2 60.1 53.8 52.9 52.4 67.8 0.0 67. 11 70.8 88.8 14.5 50.5 80.8 79.8 76.8 73.8 65.2 59.7 52.7 51.9 50.7 68.8 0.0 68. 14 73.4 86.7 52.4 86.1 85.2 80.6 77.0 70.0 63.5 55.0 54.6 53.6 73.4 0.0 73.1 15.7 74.8 74.3 87.1 52.9 86.8 86.0 82.6 78.7 69.1 62.5 55.6 54.7 53.2 74.3 0.0 74. 15 77.1 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 18 70.4 82.8 54.6 82.2 81.2 77.7 74.7 67.8 63.6 63.4 56.6 55.6 54.8 71.5 50.0 76. 19 71.6 83.8 54.6 82.2 81.2 77.7 74.7 67.8 63.6 63.4 56.5 55.6 54.7 53.8 52.9 77.2 79.5 79.5 79.5 79.5 79.5 79.5 79.5 79.5 | | | | | | | | | HOUI DO | giiiiiig | | | | | | | |
|--|-----------|---------|------|-------|-------|------|------|------|---------|----------|------|------|------|------|-----------------|-----------------------|----------------------|
| Night 1 64.3 76.9 44.4 76.3 75.4 73.0 70.8 56.2 50.4 45.7 45.1 44.5 64.3 10.0 72.4 10.0 89. Night 2 79.4 87.4 45.5 86.8 86.4 85.6 85.0 82.1 72.3 55.6 52.7 50.0 79.4 10.0 89. Night 3 77.8 83.7 47.6 83.1 82.8 82.2 81.9 80.2 76.2 63.6 61.2 58.7 77.8 10.0 87. 1.0 83.1 54.6 82.4 81.4 78.8 76.7 67.2 61.3 55.7 55.2 54.8 71.0 10.0 81. 6 74.9 88.4 54.8 87.4 86.4 83.8 80.0 66.3 61.4 55.8 55.3 54.9 74.9 10.0 84. 8 68.7 80.4 53.1 80.0 79.2 76.2 74.1 66.3 61.2 55.1 54.0 53.2 68.7 70.6 0.0 70. 8 68.7 80.4 83.1 80.0 79.2 76.2 74.1 66.3 61.2 55.1 54.0 53.2 68.7 0.0 68. 9 70.1 83.3 50.8 82.4 81.0 78.1 75.3 65.6 65.5 60.1 52.7 51.8 51.0 70.1 0.0 70. 10 67.8 79.8 52.2 79.3 78.4 75.6 72.9 65.2 60.1 53.7 52.9 52.2 70.8 0.0 67.0 10.0 10.0 67.8 79.8 52.2 79.3 78.4 74.2 65.5 60.1 53.7 52.9 52.2 70.8 0.0 68. 11 70.8 84.8 52.1 84.0 82.7 78.4 74.2 65.5 60.1 53.7 52.9 52.2 70.8 0.0 67.0 1.0 11.0 11.0 11.0 11.0 11.0 11.0 11 | Timeframe | Hour | L eq | L max | L min | L1% | L2% | L5% | L8% | L25% | L50% | L90% | L95% | L99% | L _{eq} | Adj. | Adj. L _{eq} |
| Night 3 77.8 83.7 47.6 83.1 82.8 82.2 81.9 80.2 76.2 63.6 61.2 58.7 77.8 10.0 89. 7.8 85.3 52.4 83.7 47.6 83.1 82.8 82.2 81.9 80.2 76.2 63.6 61.2 58.7 77.8 10.0 87. 8.6 74.9 88.4 54.8 87.4 86.4 83.8 80.0 66.3 61.4 55.8 55.3 54.9 10.0 81.0 81. 7. 7. 70.6 83.5 52.4 82.4 81.4 78.8 76.7 67.2 61.3 55.7 55.2 54.8 71.0 10.0 81. 8. 8 68.7 80.4 53.1 80.0 79.2 76.2 74.1 66.3 61.2 55.1 54.0 53.6 70.6 0.0 70. 8. 8 68.7 80.4 53.1 80.0 79.2 76.2 74.1 66.3 61.2 55.1 54.0 53.2 68.7 0.0 68. 9. 70.1 83.3 50.8 82.4 81.0 78.1 75.3 66.5 60.1 52.7 51.8 51.0 70.1 0.0 70. 1.0 67.8 73.8 52.2 79.3 78.4 75.6 72.9 65.2 60.1 53.8 52.9 52.4 67.8 0.0 67. 1.1 70.8 84.8 52.1 84.0 82.7 78.4 74.2 65.5 60.1 53.7 52.9 52.2 70.8 0.0 70. 1.2 68.8 81.4 50.5 80.8 79.8 76.8 73.8 65.2 59.7 52.7 51.9 50.7 68.8 0.0 68. 1.4 73.4 86.7 52.4 86.1 85.2 80.6 77.0 70.0 63.5 55.0 53.8 52.8 51.6 50.4 68.3 0.0 68. 1.4 73.4 86.7 52.4 86.1 85.2 80.6 77.0 70.0 63.5 55.0 53.8 52.8 51.0 50.7 68.8 0.0 68. 1.5 74.3 87.1 52.9 86.8 86.0 82.6 77.7 79.3 76.3 68.8 64.3 57.8 56.8 55.8 71.1 0.0 71. 1.7 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.3 57.8 56.8 55.8 71.1 0.0 71. 1.7 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.3 57.8 56.8 55.8 71.1 0.0 71. 1.7 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 1.7 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 1.7 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 1.7 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 1.8 70.4 82.8 54.6 83.3 82.4 79.1 76.9 68.6 63.4 56.6 55.6 54.8 71.4 0.0 70. 1.8 70.4 82.8 54.6 82.2 81.2 77.7 74.7 67.8 63.6 57.1 56.0 54.9 70.4 0.0 70. 1.8 70.4 82.8 54.6 83.3 82.4 79.1 75.9 65.2 59.7 52.7 51.6 50.4 83.5 52.8 51.6 50.4 1.8 70.4 82.8 54.6 82.2 81.2 77.7 74.7 67.8 63.6 57.1 56.0 54.8 71.6 50.0 70. 1.8 70.4 82.8 54.6 82.2 81.2 77.7 74.7 67.8 66.6 63.4 56.6 55.6 54.8 71.5 50.4 1.8 70.4 82.8 54.6 52.6 84.1 83.1 79.3 75.7 66.1 61.4 54.4 53.5 52.5 54.8 53.5 1.8 82.4 82.4 | | 0 | 56.2 | 68.3 | 42.8 | 68.1 | 67.4 | 64.3 | 60.7 | 52.7 | 48.0 | 43.6 | 43.2 | 42.9 | 56.2 | 10.0 | 66.2 |
| Night 3 77.8 83.7 47.6 83.1 82.8 82.2 81.9 80.2 76.2 63.6 61.2 58.7 77.8 10.0 87. 4 70.8 85.3 52.4 83.7 82.8 78.9 75.3 63.0 57.4 53.4 52.9 52.5 70.8 10.0 80. 5 71.0 83.1 54.6 82.4 81.4 78.8 76.7 67.2 61.3 55.7 55.2 54.8 71.0 10.0 81. 6 74.9 88.4 54.8 87.4 86.4 83.8 80.0 66.3 61.4 55.8 55.3 54.9 77.9 10.0 81. 7 7 70.6 83.5 53.4 82.4 81.3 77.8 75.8 66.3 63.3 55.5 54.6 53.6 70.6 0.0 70. 8 68.7 80.4 53.1 80.0 79.2 76.2 74.1 66.3 61.2 55.1 54.0 53.2 68.7 0.0 68. 9 70.1 83.3 50.8 82.4 81.0 78.1 75.6 65.5 60.1 52.7 51.8 51.0 70.1 0.0 70.1 0.0 70.1 11 70.8 84.8 52.2 79.3 78.4 75.6 72.9 65.2 60.1 53.8 52.9 52.4 67.8 0.0 67. 10 67.8 79.8 52.2 79.3 78.4 75.6 72.9 65.5 60.1 53.7 52.9 52.2 70.8 0.0 70. 11 70.8 84.8 52.1 84.0 82.7 78.4 74.2 65.2 60.1 53.8 52.9 52.4 67.8 0.0 67. 12 68.8 81.4 50.5 80.8 79.8 76.8 73.8 65.2 59.7 52.7 51.9 50.7 68.8 0.0 70.0 70.1 13 68.3 80.7 50.2 80.2 79.2 75.8 72.9 65.8 60.1 52.7 51.8 50.0 68.3 15.7 52.9 52.2 70.8 0.0 70.4 13.1 55.6 88.8 66.0 82.6 78.7 69.1 62.5 55.6 54.7 53.2 74.3 0.0 73.1 15 74.3 87.1 52.9 86.8 86.0 82.6 78.7 69.1 62.5 55.6 54.7 53.2 74.3 0.0 73.1 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 70. 70.0 63.5 50.0 50.0 50.0 50.0 50.0 50.0 50.0 5 | | 1 | 64.3 | 76.9 | 44.4 | 76.3 | 75.4 | 73.0 | 70.8 | 56.2 | 50.4 | 45.7 | 45.1 | 44.5 | 64.3 | 10.0 | 74.3 |
| 4 | | 2 | 79.4 | 87.4 | 45.5 | 86.8 | 86.4 | 85.6 | 85.0 | 82.1 | 72.3 | 55.6 | 52.7 | 50.0 | 79.4 | 10.0 | 89.4 |
| 5 71.0 83.1 54.6 82.4 81.4 78.8 76.7 67.2 61.3 55.7 55.2 54.8 71.0 10.0 83.4 54.8 64 83.8 80.0 66.3 61.4 55.8 55.3 54.9 74.9 10.0 83.4 54.8 64.7 83.8 78.4 78.4 86.4 83.8 80.0 66.3 61.4 55.8 55.3 54.9 74.9 10.0 83.4 77.0 70.6 83.5 53.4 82.4 81.3 77.8 75.4 68.3 63.3 55.5 54.6 53.6 70.6 0.0 70. 88.4 86.7 80.4 53.1 80.0 79.2 76.2 74.1 66.3 61.2 55.1 54.0 53.2 68.7 0.0 68.9 70.1 83.3 50.8 82.4 81.0 78.1 75.3 66.5 60.1 52.7 51.8 51.0 70.1 0.0 70. 10.0 70. 10.0 67.8 79.8 52.2 79.3 78.4 75.6 72.9 65.2 60.1 53.8 52.9 52.4 67.8 0.0 67.0 11.1 70.8 84.8 52.1 84.0 82.7 78.4 74.2 65.5 60.1 53.7 52.9 52.2 70.8 0.0 70.1 11.1 70.8 84.8 52.1 84.0 82.7 78.4 74.2 65.5 60.1 53.7 52.9 52.2 70.8 0.0 70.1 13. 68.3 80.7 50.2 80.2 79.2 75.8 72.9 65.8 60.3 52.8 51.6 50.4 68.3 0.0 68. 13.4 68.3 80.7 50.2 80.2 79.2 75.8 72.9 65.8 60.3 52.8 51.6 50.4 68.3 0.0 68. 13.4 73.4 86.7 52.4 86.1 85.2 80.6 77.0 70.0 63.5 55.0 53.8 52.6 73.4 0.0 73. 15.7 74.3 87.1 52.9 86.8 86.0 82.6 78.7 69.1 62.5 55.6 54.7 53.2 74.3 0.0 74. 16. 71.1 83.1 55.6 82.5 81.4 78.5 76.1 68.8 64.3 57.8 56.8 55.8 71.1 0.0 71. 18. 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 18. 70.4 82.8 54.6 82.2 81.2 77.7 74.7 67.8 63.6 53.6 57.1 56.0 54.9 70.4 0.0 70.1 70.1 18. 70.4 72.2 85.1 52.3 84.8 84.4 80.4 76.0 66.1 61.4 54.4 53.5 52.6 72.2 50.0 76. 76. 76. 79.6 63.6 63.4 56.6 55.6 55.6 54.8 71.5 50.0 76. 76. 76. 76.8 76.1 50.4 50.4 50.4 50.4 50.4 50.4 50.4 50.4 | Night | 3 | 77.8 | 83.7 | 47.6 | 83.1 | 82.8 | 82.2 | 81.9 | 80.2 | 76.2 | 63.6 | 61.2 | 58.7 | 77.8 | 10.0 | 87.8 |
| Figure F | | 4 | 70.8 | 85.3 | 52.4 | 83.7 | 82.8 | 78.9 | 75.3 | 63.0 | 57.4 | 53.4 | 52.9 | 52.5 | 70.8 | 10.0 | 80.8 |
| 7 70.6 83.5 53.4 82.4 81.3 77.8 75.4 68.3 63.3 55.5 54.6 53.6 70.6 0.0 70. 8 68.7 80.4 53.1 80.0 79.2 76.2 74.1 66.3 61.2 55.1 54.0 53.2 68.7 0.0 68. 9 70.1 83.3 50.8 82.4 81.0 78.1 75.3 66.5 60.1 52.7 51.8 51.0 70.1 0.0 70. 10 67.8 79.8 52.2 79.3 78.4 75.6 72.9 65.2 60.1 53.8 52.9 52.4 67.8 0.0 67. 111 70.8 84.8 52.1 84.0 82.7 78.4 74.2 65.5 60.1 53.8 52.9 52.4 67.8 0.0 70. 112 68.8 81.4 50.5 80.8 79.8 76.8 73.8 65.2 59.7 52.7 51.9 50.7 68.8 0.0 68. 13 68.3 80.7 50.2 80.2 79.2 75.8 72.9 65.8 60.3 52.8 51.6 50.4 68.3 0.0 68. 14 73.4 86.7 52.4 86.1 85.2 80.6 77.0 70.0 63.5 55.0 53.8 52.6 73.4 0.0 73. 15 74.3 87.1 52.9 86.8 86.0 82.6 78.7 69.1 62.5 55.6 54.7 53.2 74.3 0.0 74. 16 71.1 83.1 55.6 82.5 81.4 78.5 76.1 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 18 70.4 82.8 54.6 83.3 82.4 79.1 79.7 67.8 63.6 63.4 55.6 55.6 54.8 71.6 50.0 76. Evening 20 71.5 84.6 52.6 84.1 83.1 79.3 75.7 67.1 61.6 54.7 53.8 52.8 71.5 50.0 76. Evening 20 71.5 84.6 52.6 84.1 83.1 79.3 75.7 67.1 61.6 54.7 53.8 52.8 71.5 50.0 76. Night Min 67.8 79.8 50.2 79.3 78.4 80.4 75.0 66.1 61.4 54.4 53.5 52.6 72.2 50.0 77. Timpframe Hour Leg | | 5 | 71.0 | 83.1 | 54.6 | 82.4 | 81.4 | 78.8 | 76.7 | 67.2 | 61.3 | 55.7 | 55.2 | 54.8 | 71.0 | 10.0 | 81.0 |
| 8 68.7 80.4 53.1 80.0 79.2 76.2 74.1 66.3 61.2 55.1 54.0 53.2 68.7 0.0 68. 9 70.1 83.3 50.8 82.4 81.0 78.1 75.3 66.5 60.1 52.7 51.8 51.0 70.1 0.0 70. 10 67.8 79.8 52.2 79.3 78.4 75.6 72.9 65.2 60.1 53.8 52.9 52.4 67.8 0.0 67. 11 70.8 84.8 52.1 84.0 82.7 78.4 74.2 65.5 60.1 53.7 52.9 52.2 70.8 0.0 70. 12 68.8 81.4 50.5 80.8 79.8 76.8 73.8 65.2 59.7 52.7 51.9 50.7 68.8 0.0 68. 14 73.4 86.7 50.2 80.2 79.2 75.8 72.9 65.8 60.3 52.8 51.6 50.4 68.3 0.0 68. 14 73.4 86.7 52.4 86.1 85.2 80.6 77.0 70.0 63.5 55.0 53.8 52.6 73.4 0.0 73. 15 74.3 87.1 52.9 86.8 86.0 82.6 77.0 70.0 63.5 55.0 53.8 52.6 73.4 0.0 73. 16 71.1 83.1 55.6 82.5 81.4 78.5 76.1 68.8 64.3 57.8 56.8 55.8 71.1 0.0 71. 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 18 70.4 82.8 54.6 82.2 81.2 77.7 74.7 67.8 63.6 57.1 56.0 54.9 70.4 0.0 70. 18 Feening 20 71.5 84.6 52.6 84.1 83.1 79.3 75.7 67.1 61.6 54.7 53.8 52.8 71.5 5.0 76. Evening 21 79.6 88.4 49.9 87.4 86.8 84.8 83.7 81.1 78.2 52.1 52.1 51.3 50.1 89.6 62.8 72.2 79.6 88.8 81.0 79.0 88.3 89.9 60.7 89.3 89.0 88.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 53.9 52.9 74.7 71.1 77.1 77.1 71.1 8 84.8 84.4 84.4 80.4 76.0 66.1 61.4 54.4 53.5 52.6 72.2 50.0 76. Evening Min 71.5 83.8 52.3 83.3 82.4 79.1 75.7 66.1 61.4 54.4 53.5 52.6 72.2 50.7 76. Evening Min 71.5 83.8 52.3 83.3 82.4 79.1 75.7 66.1 61.4 54.4 53.5 52.6 72.2 50.0 76. Evening Min 71.5 83.8 52.3 83.3 82.4 79.1 75.7 66.1 61.4 54.4 53.5 52.6 72.2 50.0 76. Evening Min 71.5 83.8 52.3 83.3 82.4 79.1 75.7 66.1 61.4 54.4 53.5 52.6 53.4 71.5 50.0 93. Energy Average 70.9 Average: 82.5 81.5 78.1 75.1 67.3 61.9 54.9 53.9 52.9 74.7 71.1 77. Evening Min 71.5 83.8 52.3 83.3 82.4 79.1 75.7 66.1 61.4 54.4 53.5 52.6 54.8 71.1 77. Evening Min 71.5 83.8 62.2 68.1 83.3 79.6 76.2 67.3 60.1 54.9 53.9 52.9 74.7 71.1 77. Evening Min 71.5 83.8 62.2 68.8 86.0 86.6 86.6 86.6 86.6 86.6 86.6 | | 6 | 74.9 | 88.4 | 54.8 | 87.4 | 86.4 | 83.8 | 80.0 | 66.3 | 61.4 | 55.8 | 55.3 | 54.9 | 74.9 | 10.0 | 84.9 |
| 9 70.1 83.3 50.8 82.4 81.0 78.1 75.3 66.5 60.1 52.7 51.8 51.0 70.1 0.0 70.1 10 67.8 79.8 52.2 79.3 78.4 75.6 72.9 65.2 60.1 53.8 52.9 52.4 67.8 0.0 67. 11 70.8 84.8 52.1 84.0 82.7 78.4 74.2 65.5 60.1 53.7 52.9 52.2 70.8 0.0 70. 12 68.8 81.4 50.5 80.8 79.8 76.8 73.8 65.2 59.7 52.7 51.9 50.7 68.8 0.0 68. 13 68.3 80.7 50.2 80.2 79.2 75.8 72.9 65.8 60.3 52.8 51.6 50.4 68.3 0.0 68. 14 73.4 86.7 52.4 86.1 85.2 80.6 77.0 70.0 63.5 55.0 53.8 52.6 73.4 0.0 73. 15 74.3 87.1 52.9 86.8 86.0 82.6 78.7 69.1 62.5 55.6 54.7 53.2 74.3 0.0 74. 16 71.1 83.1 55.6 82.5 81.4 78.5 76.1 68.8 64.3 57.8 56.8 55.8 71.1 0.0 71. 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 18 70.4 82.8 54.6 82.2 81.2 77.7 74.7 67.8 63.6 57.1 56.0 54.9 70.4 0.0 70. Evening 20 71.5 84.6 52.6 84.1 83.1 79.3 75.7 67.1 61.6 54.7 53.8 52.8 71.5 5.0 76. Night Min 67.8 79.8 50.2 79.3 78.4 79.1 75.7 66.1 61.4 54.4 53.5 52.6 72.9 50.4 Reference Hour Leg Luna Luna Link Link Link Max 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 E0.7 52.7 48.0 43.6 43.5 52.6 72.2 50.4 Night Min 56.2 68.3 42.8 66.1 83.3 82.4 79.1 75.7 66.1 61.4 54.4 53.5 52.6 72.2 50.4 Reference Till St. Link Refere | | 7 | 70.6 | 83.5 | 53.4 | 82.4 | 81.3 | 77.8 | 75.4 | 68.3 | 63.3 | 55.5 | 54.6 | 53.6 | 70.6 | 0.0 | 70.6 |
| 10 | | 8 | 68.7 | 80.4 | 53.1 | 80.0 | 79.2 | 76.2 | | 66.3 | 61.2 | 55.1 | 54.0 | 53.2 | 68.7 | 0.0 | 68.7 |
| Day 11 70.8 84.8 52.1 84.0 82.7 78.4 74.2 65.5 60.1 53.7 52.9 52.2 70.8 0.0 70. | | 9 | 70.1 | 83.3 | 50.8 | 82.4 | 81.0 | 78.1 | 75.3 | 66.5 | 60.1 | 52.7 | 51.8 | 51.0 | | 0.0 | 70.1 |
| Day 12 68.8 81.4 50.5 80.8 79.8 76.8 73.8 65.2 59.7 52.7 51.9 50.7 68.8 0.0 68. 13 68.3 80.7 50.2 80.2 79.2 75.8 72.9 65.8 60.3 52.8 51.6 50.4 68.3 0.0 68. 14 73.4 86.7 52.4 86.1 85.2 80.6 77.0 70.0 63.5 55.0 53.8 52.6 73.4 0.0 73. 15 74.3 87.1 52.9 86.8 86.0 82.6 78.7 69.1 62.5 55.6 54.7 53.2 74.3 0.0 74. 16 71.1 83.1 55.6 82.5 81.4 78.5 76.1 68.8 64.3 57.8 56.8 55.8 71.1 0.0 71. 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 18 70.4 82.8 54.6 82.2 81.2 77.7 74.7 67.8 63.6 57.1 56.0 54.9 70.4 0.0 70. Evening 20 71.5 84.6 52.6 84.1 83.1 79.3 75.7 67.1 61.6 54.7 53.8 52.8 71.5 50.0 76. Right 22 79.6 88.4 49.9 87.4 86.8 84.8 83.7 81.1 78.2 52.1 51.3 50.1 79.6 10.0 89. Night 23 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 Energy Average 70.9 Average: 82.5 81.5 78.1 75.7 66.1 61.4 54.4 53.5 52.6 54.8 Night Min 56.2 68.3 42.8 68.1 67.4 64.3 60.7 52.7 48.0 43.6 43.2 42.9 Night Min 56.2 68.3 42.8 68.1 67.4 64.3 60.7 52.7 48.0 43.6 43.2 42.9 Night Min 56.2 68.3 42.8 68.1 67.4 64.3 60.7 52.7 48.0 43.6 43.2 42.9 Night Min 56.2 68.3 42.8 68.1 67.4 64.3 60.7 52.7 48.0 43.6 43.2 42.9 Night Min 56.2 68.3 42.8 68.1 67.4 64.3 60.7 52.7 48.0 43.6 43.2 42.9 Night Min 56.2 68.3 42.8 68.1 67.4 64.3 60.7 52.7 48.0 43.6 43.2 42.9 Night Min 56.2 68.3 42.8 68.1 67.4 64.3 60.7 52.7 48.0 43.6 43.2 42.9 Night Min 56.2 68.3 42.8 68.1 67.4 64.3 60.7 52.7 48.0 43.6 43.2 42.9 Night Min 56.2 6 | | 10 | 67.8 | 79.8 | 52.2 | 79.3 | 78.4 | 75.6 | 72.9 | 65.2 | 60.1 | 53.8 | 52.9 | 52.4 | 67.8 | 0.0 | 67.8 |
| Day 13 68.3 80.7 50.2 80.2 79.2 75.8 72.9 65.8 60.3 52.8 51.6 50.4 68.3 0.0 68. 14 73.4 86.7 52.4 86.1 85.2 80.6 77.0 70.0 63.5 55.0 53.8 52.6 73.4 0.0 73. 15 74.3 87.1 52.9 86.8 86.0 82.6 78.7 69.1 62.5 55.6 54.7 53.2 74.3 0.0 74. 16 71.1 83.1 55.6 82.5 81.4 78.5 76.1 68.8 64.3 57.8 56.8 55.8 71.1 0.0 71. 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 18 70.4 82.8 54.6 82.2 81.2 77.7 74.7 67.8 63.6 57.1 56.0 54.9 70.4 0.0 70. Evening 20 71.5 84.6 52.6 84.1 83.1 79.3 75.7 67.1 61.6 54.7 53.8 52.8 71.5 5.0 76. Evening 20 71.5 84.6 52.6 84.1 83.1 79.3 75.7 67.1 61.6 54.7 53.8 52.8 71.5 5.0 76. Night 22 79.6 88.4 49.9 87.4 86.8 84.8 83.7 81.1 78.2 52.1 51.3 50.1 79.6 10.0 89. Day Max 74.3 87.1 55.6 86.8 86.0 82.6 78.7 70.0 64.3 57.8 56.8 55.8 Timeframe Hour Leq Lemi Lik L | | 11 | 70.8 | 84.8 | 52.1 | 84.0 | 82.7 | 78.4 | 74.2 | 65.5 | 60.1 | 53.7 | 52.9 | 52.2 | 70.8 | 0.0 | 70.8 |
| 13 68.3 80.7 50.2 80.2 79.2 75.8 72.9 65.8 60.3 52.8 51.6 50.4 68.3 0.0 68. 14 73.4 86.7 52.4 86.1 85.2 80.6 77.0 70.0 63.5 55.0 53.8 52.6 73.4 0.0 73. 15 74.3 87.1 52.9 86.8 86.0 82.6 78.7 69.1 62.5 55.6 54.7 53.2 74.3 0.0 74. 16 71.1 83.1 55.6 82.5 81.4 78.5 76.1 68.8 64.3 57.8 56.8 55.8 71.1 0.0 71. 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 18 70.4 82.8 54.6 82.2 81.2 77.7 74.7 67.8 63.6 57.1 56.0 54.9 70.4 0.0 70. Evening 20 71.5 84.6 52.6 84.1 83.1 79.3 75.7 67.1 61.6 54.7 53.8 52.8 71.5 5.0 76. 21 72.2 85.1 52.3 84.8 84.4 80.4 76.0 66.1 61.4 54.4 53.5 52.6 72.2 5.0 77. Night 22 79.6 88.4 49.9 87.4 86.8 84.8 83.7 81.1 78.2 52.1 51.3 50.1 79.6 10.0 89. 18 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.5 10.0 93. Timeframe Hour Log | Day | 12 | 68.8 | 81.4 | 50.5 | 80.8 | 79.8 | 76.8 | 73.8 | 65.2 | 59.7 | 52.7 | 51.9 | 50.7 | 68.8 | 0.0 | 68.8 |
| 15 74.3 87.1 52.9 86.8 86.0 82.6 78.7 69.1 62.5 55.6 54.7 53.2 74.3 0.0 74. 16 71.1 83.1 55.6 82.5 81.4 78.5 76.1 68.8 64.3 57.8 56.8 55.8 71.1 0.0 71. 17 71.8 84.7 54.9 83.9 82.7 79.3 76.3 68.8 64.2 57.2 56.3 55.1 71.8 0.0 71. 18 70.4 82.8 54.6 82.2 81.2 77.7 74.7 67.8 63.6 57.1 56.0 54.9 70.4 0.0 70. 19 71.6 83.8 54.6 82.2 81.2 77.7 74.7 67.8 63.6 57.1 56.0 54.9 70.4 0.0 70. 19 71.6 83.8 54.6 83.3 82.4 79.1 76.9 68.6 63.4 56.6 55.6 54.8 71.6 5.0 76. 21 72.2 85.1 52.3 84.8 84.4 80.4 76.0 66.1 61.4 54.4 53.5 52.6 72.2 50. 77. 80.0 89.3 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.5 10.0 93. 10.0 89. Timeframe Hour Leg Lmax Lmin L1% L2% L5% L5% L5% L9% L9% L9% L9% Leg (dBA) Max 74.3 87.1 55.6 86.8 86.0 82.6 78.7 70.0 64.3 57.8 56.8 55.8 52.9 74.7 71.1 77. Evening Min 71.5 83.8 52.3 83.3 82.4 79.1 75.7 66.1 61.4 54.4 53.5 52.6 72.2 50.0 77. Finergy Average 70.9 Average: 82.5 81.5 78.1 75.1 67.3 61.9 54.9 53.9 52.9 Finergy Average 71.8 Average: 84.1 83.3 79.6 76.2 67.3 61.9 54.9 53.9 52.9 Finergy Average 71.8 Average: 84.1 83.3 79.6 76.2 67.3 62.1 55.2 54.3 53.4 Night Max 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.5 San Average: 84.1 83.3 79.6 76.2 67.3 62.1 55.2 54.3 53.4 Night Max 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.5 San Average: 84.1 83.3 79.6 76.2 67.3 62.1 55.2 54.3 53.4 Night Max 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.5 | Day | 13 | 68.3 | 80.7 | 50.2 | 80.2 | 79.2 | 75.8 | 72.9 | 65.8 | 60.3 | 52.8 | 51.6 | 50.4 | 68.3 | 0.0 | 68.3 |
| 16 | | 14 | 73.4 | 86.7 | 52.4 | 86.1 | 85.2 | 80.6 | 77.0 | 70.0 | 63.5 | 55.0 | 53.8 | 52.6 | 73.4 | 0.0 | 73.4 |
| 17 | | 15 | 74.3 | 87.1 | 52.9 | 86.8 | 86.0 | 82.6 | 78.7 | 69.1 | 62.5 | 55.6 | 54.7 | 53.2 | 74.3 | 0.0 | 74.3 |
| 18 | | 16 | 71.1 | 83.1 | 55.6 | 82.5 | 81.4 | 78.5 | 76.1 | 68.8 | 64.3 | 57.8 | 56.8 | 55.8 | 71.1 | 0.0 | 71.1 |
| Evening 20 71.5 84.6 52.6 84.1 83.1 79.3 75.7 67.1 61.6 54.7 53.8 52.8 71.5 5.0 76. 21 72.2 85.1 52.3 84.8 84.4 80.4 76.0 66.1 61.4 54.4 53.5 52.6 72.2 5.0 77. Night 23 83.5 89.9 60.7 89.3 89.0 88.3 87.6 65.2 59.7 52.7 52.7 52.6 52.9 52.9 74.7 71.1 77.0 72.9 79.1 75.7 66.1 61.4 54.4 53.5 52.8 71.5 5.0 76. 76. 76.1 61.6 54.7 53.8 52.8 71.5 5.0 76. 76. 76.1 61.6 54.7 53.8 52.8 71.5 5.0 76. 76. 76.1 61.6 54.7 53.8 52.8 71.5 5.0 76. 76. 76.1 61.6 54.7 53.8 52.8 71.5 5.0 76. 76. 76.1 61.4 54.4 53.5 52.6 72.2 5.0 77. 76.1 61.1 54.1 54.1 54.1 54.1 54.1 54.1 54.1 5 | | 17 | 71.8 | 84.7 | 54.9 | 83.9 | 82.7 | 79.3 | 76.3 | 68.8 | 64.2 | 57.2 | 56.3 | 55.1 | 71.8 | 0.0 | 71.8 |
| Evening 20 71.5 84.6 52.6 84.1 83.1 79.3 75.7 67.1 61.6 54.7 53.8 52.8 71.5 5.0 76. 21 72.2 85.1 52.3 84.8 84.4 80.4 76.0 66.1 61.4 54.4 53.5 52.6 72.2 5.0 77. Night 22 79.6 88.4 49.9 87.4 86.8 84.8 83.7 81.1 78.2 52.1 51.3 50.1 79.6 10.0 89. 89.3 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.5 10.0 93. Timeframe Hour Lea Lmax Lmin L1% L2% L5% L8% L25% L50% L90% L95% L99% L96% L96% L96% L96% L96% L96% L96 | | 18 | 70.4 | 82.8 | 54.6 | 82.2 | 81.2 | 77.7 | 74.7 | 67.8 | 63.6 | 57.1 | 56.0 | 54.9 | 70.4 | 0.0 | 70.4 |
| 21 72.2 85.1 52.3 84.8 84.4 80.4 76.0 66.1 61.4 54.4 53.5 52.6 72.2 5.0 77. Night 22 79.6 88.4 49.9 87.4 86.8 84.8 83.7 81.1 78.2 52.1 51.3 50.1 79.6 10.0 89. Right 23 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.5 10.0 93. Timeframe Hour Leq Lmax Lmin 11% L2% L5% L8% L25% L50% L90% L95% L99% Leq (dBA) Day Min 67.8 79.8 50.2 79.3 78.4 75.6 72.9 65.2 59.7 52.7 51.6 50.4 MAX 74.3 87.1 55.6 86.8 86.0 82.6 78.7 70.0 64.3 57.8 56.8 55.8 52.9 Average: 82.5 81.5 78.1 75.1 67.3 61.9 54.9 53.9 52.9 74.7 71.1 77. Evening Min 71.5 83.8 52.3 83.3 82.4 79.1 75.7 66.1 61.4 54.4 53.5 52.6 74.7 71.1 77.5 Formula Max 72.2 85.1 54.6 84.8 84.4 80.4 76.9 68.6 63.4 56.6 55.6 54.8 54.8 54.8 54.8 84.4 80.4 76.9 68.6 63.4 56.6 55.5 54.8 54.8 54.8 54.8 54.8 54.8 84.4 80.4 76.9 68.6 63.4 56.6 55.5 54.8 54.8 54.8 54.8 54.8 68.1 67.4 64.3 60.7 52.7 48.0 43.6 43.2 42.9 83.6 54.8 54.8 84.9 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.6 52.8 83.6 52.8 83.6 54.8 54.8 54.8 54.8 54.8 54.8 54.8 54.8 | | 19 | 71.6 | 83.8 | 54.6 | 83.3 | 82.4 | 79.1 | 76.9 | 68.6 | 63.4 | 56.6 | 55.6 | 54.8 | 71.6 | 5.0 | 76.6 |
| Night 22 79.6 88.4 49.9 87.4 86.8 84.8 83.7 81.1 78.2 52.1 51.3 50.1 79.6 10.0 89. Night 23 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.5 10.0 93. Night 23 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.5 10.0 93. Night 23 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.5 10.0 93. Night 23 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.5 10.0 93. Night 23 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.5 10.0 93. Night 23 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.5 10.0 93. Night 23 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 Night 23 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 Night 24 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 Night 24 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 Night 24 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 Night 24 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 Night 25 83.6 83.4 83.6 83.1 83.6 83.1 83.1 73.5 68.9 62.8 Night 25 83.6 83.4 83.6 83.1 83.6 83.1 83.1 73.5 68.9 62.8 Night 25 83.6 83.1 83.1 83.1 83.1 83.1 83.1 83.1 83.1 | Evening | 20 | 71.5 | 84.6 | 52.6 | 84.1 | 83.1 | 79.3 | 75.7 | 67.1 | 61.6 | 54.7 | 53.8 | 52.8 | 71.5 | 5.0 | 76.5 |
| Night 23 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.5 10.0 93. Timeframe Hour Leq Lmax Lmin L1% L2% L5% L8% L25% L50% L90% L95% L99% Leq (dBA) Day Min 67.8 79.8 50.2 79.3 78.4 75.6 72.9 65.2 59.7 52.7 51.6 50.4 Max 74.3 87.1 55.6 86.8 86.0 82.6 78.7 70.0 64.3 57.8 56.8 55.8 Energy Average 70.9 Average: 82.5 81.5 78.1 75.1 67.3 61.9 54.9 53.9 52.9 74.7 71.1 77. Evening Min 71.5 83.8 52.3 83.3 82.4 79.1 75.7 66.1 61.4 54.4 53.5 52.6 Max 72.2 85.1 54.6 84.8 84.4 80.4 76.9 68.6 63.4 56.6 55.6 54.8 Energy Average 71.8 Average: 84.1 83.3 79.6 76.2 67.3 62.1 55.2 54.3 53.4 Night Min 56.2 68.3 42.8 68.1 67.4 64.3 60.7 52.7 48.0 43.6 43.2 42.9 Max 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.5 10.0 93. 10.0 93 | | | | | | | | | | | | | | | | | 77.2 |
| Timeframe Hour Lea Lmax Lmin L1% L2% L5% L8% L25% L50% L90% L95% L99% Leg (dBA) Day Min 67.8 79.8 50.2 79.3 78.4 75.6 72.9 65.2 59.7 52.7 51.6 50.4 Max 74.3 87.1 55.6 86.8 86.0 82.6 78.7 70.0 64.3 57.8 56.8 55.8 Energy Average 70.9 Average: 82.5 81.5 78.1 75.1 67.3 61.9 54.9 53.9 52.9 74.7 71.1 77.2 Evening Max 72.2 85.1 54.6 84.8 84.4 80.4 76.9 68.6 63.4 56.6 55.6 55.6 54.8 Energy Average 71.8 Average: 84.1 83.3 79.6 76.2 67.3 62.1 55.2 54.3 53.4 Night Min 56.2 68.3 42.8 68.1 67.4 64.3 60.7 52.7 48.0 43.6 43.2 42.9 Night Max 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.5 10.0 93. | Night | | | | | | | | | | | | | | | | 89.6 |
| Day Min Max 67.8 74.3 79.8 87.1 50.2 79.3 78.4 86.0 75.6 86.8 86.0 72.9 82.6 78.7 70.0 65.2 64.3 57.8 56.8 55.8 50.4 55.6 56.8 55.8 24-Hour Daytime Night Energy Average 70.9 Average: 82.5 81.5 78.1 75.1 67.3 61.9 54.9 53.9 52.9 53.9 52.9 74.7 71.1 75.7 66.1 61.4 54.4 53.5 52.6 52.6 52.6 54.8 74.7 71.1 75.1 75.7 66.1 61.4 54.4 53.5 52.6 52.6 54.8 74.7 71.1 75.1 75.1 75.1 75.1 75.1 75.1 75 | MBIIC | 23 | 83.5 | 89.9 | 60.7 | | | | | | 82.1 | 72.5 | | | 83.5 | | 93.5 |
| Max 74.3 87.1 55.6 86.8 86.0 82.6 78.7 70.0 64.3 57.8 56.8 55.8 24-Hour Daytime Nightt | Timeframe | | | | | | | | | | | | | | | L _{eq} (dBA) | |
| Energy Average 70.9 Average: 82.5 81.5 78.1 75.1 67.3 61.9 54.9 53.9 52.9 Evening Min 71.5 83.8 52.3 83.3 82.4 79.1 75.7 66.1 61.4 54.4 53.5 52.6 Energy Average 71.8 Average: 84.1 83.3 79.6 76.2 67.3 62.1 55.2 54.3 53.4 Night Min 56.2 68.3 42.8 68.1 67.4 64.3 60.7 52.7 48.0 43.6 43.2 42.9 Max 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.6 78.7 70.0 64.3 57.8 56.8 55.8 74.7 71.1 77.0 64.3 57.8 56.8 55.8 74.7 71.1 77.0 75.7 66.1 61.4 54.4 53.5 52.6 76.2 67.3 62.1 55.2 54.3 53.4 83.6 85.1 82.1 72.5 68.9 62.8 | Day | | | | | | | | | | | | | | 24-Hour | Davtime | Nighttime |
| Evening Min 71.5 83.8 52.3 83.3 82.4 79.1 75.7 66.1 61.4 54.4 53.5 52.6 74.7 1.1 75.7 66.1 61.4 54.4 53.5 52.6 74.7 1.1 75.7 66.1 61.4 54.4 53.5 52.6 54.8 54.6 84.8 84.4 80.4 76.9 68.6 63.4 56.6 55.6 54.8 54.8 54.4 56.6 55.6 54.8 54.8 54.4 56.6 55.6 54.8 54.8 54.4 56.6 55.6 54.8 54.8 54.4 56.6 55.6 54.8 54.8 54.4 56.6 55.6 54.8 54.8 54.4 56.6 55.6 54.8 54.8 54.4 56.6 55.6 54.8 54.8 56.6 55.6 54.8 56.8 55.8 54.8 56.8 56.8 56.8 56.8 56.8 56.8 56.8 56 | , | | | | | | | | | | | | | | 24 //04/ | Daytime | riigiittiiiic |
| Evening Max 72.2 85.1 54.6 84.8 84.4 80.4 76.9 68.6 63.4 56.6 55.6 54.8 Energy Average 71.8 Average: 84.1 83.3 79.6 76.2 67.3 62.1 55.2 54.3 53.4 Night Min 56.2 68.3 42.8 68.1 67.4 64.3 60.7 52.7 48.0 43.6 43.2 42.9 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 83.6 | Energy A | | | | | | | | | | 61.9 | | | | 747 | 71 1 | 77.6 |
| Max 72.2 85.1 54.6 84.8 84.4 80.4 76.9 68.6 63.4 56.6 55.6 54.8 24-Hour CNEL (dBA) | Evening | | | | | | | | | | | | | | | | |
| Night Min 56.2 68.3 42.8 68.1 67.4 64.3 60.7 52.7 48.0 43.6 43.2 42.9 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 | ŭ | | | | | | | | | | | | | | 24- | Hour CNEL (d | IBA) |
| Night Max 83.5 89.9 60.7 89.3 89.0 88.3 87.6 85.1 82.1 72.5 68.9 62.8 | Energy A | | | | | | | | | | | | | | | | |
| | Night | Min | | | | | | | | | | | | | | 83 6 | |
| Fnormy Average 77.0 Average: 02.7 02.0 00.0 70.4 CE 2 EE 2 EA.0 E2.4 | Ů | | | | | | | | | | | | | | | 03.0 | |
| Ellergy Average /7.0 Average. 82.7 82.0 80.0 /8.0 /0.4 85.5 55.5 54.0 52.4 | Energy A | Average | 77.6 | Ave | rage: | 82.7 | 82.0 | 80.0 | 78.0 | 70.4 | 65.3 | 55.3 | 54.0 | 52.4 | | | |



JN: 12991

Analyst: P. Mara

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APPENDIX 7.1:

OFF-SITE TRAFFIC NOISE CONTOURS



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| | FH\ | VA-RD-77-108 | HIGI | HWAY | NOISE PI | REDICT | ION MO | DEL | | | |
|-------------------|---|-----------------|--------------|----------|------------|-----------------|------------------|----------|--------------|------------|---------|
| Road Nan | io: Existing Wine: Sierra Av. nt: n/o Santa A | , | | | | | Name: lumber: | | ngton Busi | ness Pa | r |
| | SPECIFIC IN | IPUT DATA | | | 0 | | | | L INPUT | 3 | |
| Highway Data | | | | | Site Con | ditions | • | | | | |
| Average Daily | Traffic (Adt): | 28,540 vehicle | es | | | | | Autos: | 15 | | |
| Peak Hour | Percentage: | 10.00% | | | | | ucks (2 A | | 15 | | |
| Peak F | lour Volume: | 2,854 vehicle | S | | He | avy Tru | cks (3+ A | (xles | 15 | | |
| Ve | hicle Speed: | 50 mph | | | Vehicle | Mix | | | | | |
| Near/Far La | ne Distance: | 76 feet | | | Veh | icleType | | Day | Evening | Night | Daily |
| Site Data | | | | | | | Autos: | 77.5% | 12.9% | 9.6% | 97.42% |
| Ra | rrier Height: | 0.0 feet | | | М | edium T | rucks: | 84.8% | 4.9% | 10.3% | 1.84% |
| Barrier Type (0-W | | 0.0 | | | - | Heavy T | rucks: | 86.5% | 2.7% | 10.8% | 0.74% |
| Centerline Di | | 60.0 feet | | - | Noise So | ouroo E | lovetion | n (im fo | net) | | |
| Centerline Dist. | to Observer: | 60.0 feet | | | Noise 30 | Auto | | 000 | ei) | | |
| Barrier Distance | to Observer: | 0.0 feet | | | A deceller | Auto m Truck | | 297 | | | |
| Observer Height | (Above Pad): | 5.0 feet | | | | | | | Grade Adj | untmont | . 0.0 |
| P | ad Elevation: | 0.0 feet | | | неа | y Truck | S. 8. | JU4 | Grade Adj | ustriierit | 0.0 |
| Ro | ad Elevation: | ĺ | Lane Eq | uivalent | Distan | e (in f | eet) | | | | |
| | Road Grade: | 0.0% | | ĺ | | Auto | s: 46. | 701 | | | |
| | Left View: | -90.0 degree | es | | Mediu | m Truck | s: 46. | 511 | | | |
| | Right View: | 90.0 degree | es | | Heav | y Truck | s: 46. | 530 | | | |
| FHWA Noise Mod | el Calculation | s | | | | | | | | | |
| VehicleType | REMEL | Traffic Flow | Di | stance | Finite | Road | Fresn | _ | Barrier Atte | en Ber | m Atten |
| Autos: | 70.20 | 2.15 | | 0.0 | 34 | -1.20 | | -4.69 | 0.0 | 00 | 0.000 |
| Medium Trucks: | 81.00 | -15.09 | | 0.0 | 37 | -1.20 | | -4.88 | 0.0 | 00 | 0.000 |
| Heavy Trucks: | 85.38 | -19.05 | | 0.0 | 37 | -1.20 | | -5.34 | 0.0 | 00 | 0.000 |
| Unmitigated Nois | e Levels (with | out Topo and | barri | er atte | nuation) | | | | | | |
| VehicleType | Leq Peak Hou | | _ | Leq E | vening | _ | Night | | Ldn | | VEL |
| Autos: | 71 | | 69.6 | | 67.8 | | 61.8 | | 70.4 | | 71.0 |
| Medium Trucks: | 65 | | 63.6 | | 57.2 | | 55.7 | | 64.1 | | 64.4 |
| Heavy Trucks: | | | 64.1 | | 55.0 | | 56.3 | | 64.6 | | 64.8 |
| Vehicle Noise: | 73 | .2 | 71.4 | | 68.4 | | 63.6 | 5 | 72.2 | ! | 72.6 |
| Centerline Distan | ce to Noise Co | ontour (in feet |) | | | | | | | | |
| | | | , ,,,,,, | 70 | dBA | 65 | dBA | 6 | 0 dBA | 55 | dBA |
| | | | Ldn: NFL: | | 84 | | 180 | | 388 | | 836 |
| | | Ci | vEL: | | 90 | | 193 | | 417 | | 898 |

| | FHV | VA-RD-77-10 | HIG | HWAY N | OISE P | REDICT | TON MC | DDEL | | | |
|---------------------------------|---|----------------|---------|----------|--------------|----------|--------------------|-----------|-------------|----------|---------|
| Road Nam | o: Existing Wi e: Cedar Av. nt: n/o Santa A | , | | | | | t Name: lumber: | | ngton Bus | iness Pa | r |
| | SPECIFIC IN | PUT DATA | | | | | | | L INPUT | s | |
| Highway Data | | | | 5 | Site Con | ditions | • | | | | |
| Average Daily | | 19,470 vehic | les | | | | | Autos: | | | |
| | Percentage: | 10.00% | | | | | ucks (2 | | | | |
| | our Volume: | 1,947 vehicle | es | | He | avy Tru | cks (3+ | Axles): | 15 | | |
| | hicle Speed: | 45 mph | | ١ | /ehicle | Mix | | | | | |
| Near/Far La | ne Distance: | 48 feet | | | Veh | icleType | , | Day | Evening | Night | Daily |
| Site Data | | | | | | | Autos: | 77.5% | 12.9% | 9.6% | 97.42% |
| Bai | rier Height: | 0.0 feet | | | М | edium T | rucks: | 84.8% | 4.9% | 10.3% | 1.84% |
| Barrier Type (0-W | | 0.0 | | | - 1 | Heavy T | rucks: | 86.5% | 2.7% | 10.8% | 0.74% |
| Centerline Dis | st. to Barrier: | 52.0 feet | | | loise So | urce F | levation | ne (in fa | not) | | |
| Centerline Dist. | to Observer: | 52.0 feet | | | 10/36 00 | Auto | | .000 | .01) | | |
| Barrier Distance | to Observer: | 0.0 feet | | | Modiu | m Truck | 0 | .297 | | | |
| Observer Height (| Above Pad): | 5.0 feet | | | | v Truck | | 004 | Grade Ad | iustment | . 0.0 |
| Pa | ad Elevation: | 0.0 feet | | | rical | ry Truck | | .004 | 07440714 | dotimont | . 0.0 |
| Roa | ad Elevation: | 0.0 feet | | L | .ane Eq | uivalen | t Distan | ce (in t | feet) | | |
| I | Road Grade: | 0.0% | | | | Auto | s: 46 | .400 | | | |
| | Left View: | -90.0 degre | es | | Mediu | m Truck | s: 46 | .209 | | | |
| | Right View: | 90.0 degre | es | | Heav | ry Truck | s: 46 | .228 | | | |
| FHWA Noise Mode | el Calculation: | S | | | | | | | | | |
| VehicleType | REMEL | Traffic Flow | | stance | | Road | Fres | | Barrier Att | | m Atten |
| Autos: | 68.46 | 0.94 | | 0.38 | | -1.20 | | -4.66 | | 000 | 0.00 |
| Medium Trucks: | 79.45 | -16.30 | | 0.41 | | -1.20 | | -4.87 | | 000 | 0.00 |
| Heavy Trucks: | 84.25 | -20.25 | 5 | 0.41 | l | -1.20 | | -5.41 | 0.0 | 000 | 0.00 |
| Unmitigated Noise | | | l barri | er atten | uation) | | | | | | |
| VehicleType | Leq Peak Hou | | , | Leq Ev | | | Night | | Ldn | | NEL |
| Autos: | 68 | | 66.7 | | 64.9 | | 58. | | 67.5 | | 68. |
| Medium Trucks: | 62 | | 60.9 | | 54.5 | | 52. | | 61.4 | | 61.0 |
| Heavy Trucks: Vehicle Noise: | 63 70 | | 61.8 | | 52.8 65.5 | | 54. 60. | - | 62.4 | | 62. |
| Centerline Distance | | | | | 30.0 | | 00. | | 00 | • | 00. |
| Centerline Distant | e to Noise Co | intour (in fee | ı) | 70 a | IBA | 65 | dBA | 6 | i0 dBA | 55 | dBA |
| | | | Ldn: | | 47 | | 102 | 2 | 220 | | 474 |
| | | | NEL: | | 51 | | 110 | | 236 | | 509 |

| Average Daily Traffic (Adt): | MODEL | REDICTION M | NOISE PF | HIGHWAY | A-RD-77-108 | HWA | FH | |
|--|------------------------|----------------|--------------|----------|----------------|---------------|-----------------|---------------------------------|
| Autos: 15 Autos: 16 Autos: 17.5% 12.9% 9.6% Autos: 17.5% 12.9% 12.9% Autos: 17.5% 1 | | | | | out Project | | e: Cedar Av. | Road Nan |
| Average Daily Traffic (Adf): | | | | | UT DATA | INP | SPECIFIC II | |
| Peak Hour Percentage: | d = 10, Soft = 15) | ditions (Hard | Site Con | | | | | ihway Data |
| Peak Hour Volume: 2,043 vehicles Vehicle Speed: 45 mph Vehicle Mix Vehicle | Autos: 15 | | | es | 0,430 vehicle | 20 | Traffic (Adt): | Average Daily |
| Vehicle Speed: | (2 Axles): 15 | dium Trucks (2 | Me | | 0.00% | 1 | Percentage: | Peak Hour |
| Near/Far Lane Distance: | 3+ Axles): 15 | avy Trucks (3+ | He | s | ,043 vehicles | 2 | our Volume: | Peak H |
| Near/Far Lane Distance: | | Mix | Vehicle I | | 45 mph | | hicle Speed: | Ve |
| Barrier Height: 0.0 feet | Day Evening | 1 | | | 48 feet | | ne Distance: | Near/Far La |
| Barrier Trype (O-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 52.0 feet | : 77.5% 12.9% | Autos: | | | | | | e Data |
| Barrier Type (0-Wall, 1-Berm): 0.0 Heavy Trucks: 86.5% 2.7% 10.8% | 8: 84.8% 4.9% | edium Trucks: | Me | | 0.0 feet | | rier Height | Ra |
| Centerline Dist. to Observer: 52.0 feet Autos: 0.000 | 86.5% 2.7% | Heavy Trucks: | F | | 0.0 | | - | |
| Centerline Dist. to Observer: 0.0 feet Autos: 0.000 Medium Trucks: 2.297 Medium Trucks: 84.25 -20.04 0.41 -1.20 -4.67 0.000 Medium Trucks: 84.25 -20.04 0.41 -1.20 -5.41 0.000 0.000 Medium Trucks: 0.000 0.41 0.41 0.20 0.541 0.000 Medium Trucks: 0.000 Medium Trucks: 0.000 0.41 0.41 0.55 0. | ions (in feet) | ource Elevatio | Noise So | | 52.0 feet | | st. to Barrier: | Centerline D |
| Barrier Distance to Observer: 0.0 feet Medium Trucks: 2.297 Heavy Trucks: 8.004 Grade Adjustment: 1 Heavy Trucks: 46.209 Heavy Trucks: 46.209 Heavy Trucks: 46.208 Heavy Trucks: 46.2 | | | | | 52.0 feet | | to Observer: | Centerline Dist. |
| Diserver Height (Above Pad): | | | Mediur | | 0.0 feet | | to Observer: | Barrier Distance |
| Pad Elevation: 0.0 feet Road Glevation: 0.0 feet Road Glevation: 0.0 feet Road Glevation: 0.0 feet Road Grade: 0.0% Left View: 90.0 degrees Medium Trucks: 46.209 Heavy Trucks: 46.228 Heavy Trucks: 46.208 Heavy Trucks: 46.209 Heavy | | | | | 5.0 feet | | Above Pad): | bserver Height |
| Road Grade: 0.0% | 0.004 0.000710) | y Trucks. | 11001 | | 0.0 feet | | ad Elevation: | P |
| Left View: | tance (in feet) | uivalent Dista | Lane Equ | | 0.0 feet | | d Elevation: | Ro |
| Right View: 90.0 degrees Heavy Trucks: 46.228 | | | | | 0.0% | | Road Grade: | |
| FHWA Noise Model Calculations VehicleType REMEL Traffic Flow Distance Finite Road Fresnet Barrier Atten Berm | 46.209 | | | es | -90.0 degree | | Left View: | |
| VehicleType | 46.228 | y Trucks: 4 | Heav | es | 90.0 degree | | Right View: | |
| Autos: 68.46 1.15 0.38 -1.20 -4.66 0.000 | | | | | | ns | el Calculation | WA Noise Mod |
| Medium Trucks: 79.45 -16.09 0.41 -1.20 -4.87 0.000 Heavy Trucks: 84.25 -20.04 0.41 -1.20 -5.41 0.000 Unmitigated Noise Levels (without Topo and barrier attenuation) VehicleType Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNI Autos: 68.8 66.9 65.1 59.1 67.7 Medium Trucks: 62.6 61.1 54.7 53.2 61.6 Heavy Trucks: 63.4 62.0 53.0 54.2 62.6 | resnel Barrier Atte | Road Fre: | Finite | Distance | Traffic Flow | 7 | REMEL | VehicleType |
| Heavy Trucks: 84.25 -20.04 0.41 -1.20 -5.41 0.000 | -4.66 0.0 | | 8 | 0 | 1.15 | 6 | 68.46 | |
| Unmitigated Noise Levels (without Topo and barrier attenuation) VehicleType Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNI Autos: 68.8 66.9 65.1 59.1 67.7 Medium Trucks: 62.6 61.1 54.7 53.2 61.6 Heavy Trucks: 63.4 62.0 53.0 54.2 62.6 | | | 1 | - | | - | | Medium Trucks: |
| VehicleType Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNI Autos: 68.8 66.9 65.1 59.1 67.7 Medium Trucks: 62.6 61.1 54.7 53.2 61.6 Heavy Trucks: 63.4 62.0 53.0 54.2 62.6 | -5.41 0.0 | -1.20 | 1 | 0 | -20.04 | 5 | 84.25 | Heavy Trucks: |
| Autos: 68.8 66.9 65.1 59.1 67.7 Medium Trucks: 62.6 61.1 54.7 53.2 61.6 Heavy Trucks: 63.4 62.0 53.0 54.2 62.6 | | | | | | $\overline{}$ | - | |
| Medium Trucks: 62.6 61.1 54.7 53.2 61.6 Heavy Trucks: 63.4 62.0 53.0 54.2 62.6 | | | | | | _ | | |
| Heavy Trucks: 63.4 62.0 53.0 54.2 62.6 | | | | | | | - | |
| • | | | | | | | - | |
| | 54.2 62.6 61.1 69.6 | | 53.0 65.7 | 68.9 | | 70.6 | | Heavy Trucks: Vehicle Noise: |
| | 51.1 09.0 | 01 | 03.7 | | | | | |
| Centerline Distance to Noise Contour (in feet) 70 dBA 65 dBA 60 dBA 55 d | 60 dBA | 65 dBA | dBA | | tour (in feet) | Con | e to Noise C | nterline Distan |
| Ldn: 49 106 227 | | | | | | | | |
| CNEL: 53 113 244 | | | | | | | | |

Wednesday, March 10, 2021

| Scenario: Existing V Road Name: Santa Ana | /ithout Project | | | | | | | | |
|--|------------------------|---------|-------------------------------|--------------------------|--------------|----------------|-------------|----------|----------|
| Road Segment: e/o Sierra | a Av. | | | | | Bloom 12991 | ington Bus | iness Pa | ır |
| SITE SPECIFIC I | NPUT DATA | | 04- | | | | L INPUT | s | |
| lighway Data | | | Site | Conditions | (Hara | | | | |
| Average Daily Traffic (Adt): | 7,920 vehicle | S | | Marillona To | | Autos | | | |
| Peak Hour Percentage: Peak Hour Volume: | 10.00% 792 vehicles | | | Medium Tru Heavy Truc | | , | | | |
| | | | | neavy mu | UKS (ST | Axies) | . 15 | | |
| Vehicle Speed: Near/Far Lane Distance: | 40 mph | | Vehic | cle Mix | | | | | |
| Near/Far Lane Distance: | 36 feet | | | VehicleType | : | Day | Evening | Night | Daily |
| Site Data | | | | / | Autos: | 77.59 | 6 12.9% | 9.6% | 97.42% |
| Barrier Height: | 0.0 feet | | | Medium Ti | rucks: | 84.89 | 4.9% | 10.3% | 1.84% |
| Barrier Type (0-Wall, 1-Berm): | 0.0 | | | Heavy T | rucks: | 86.59 | 6 2.7% | 10.8% | 0.74% |
| Centerline Dist. to Barrier: | 44.0 feet | | Nois | e Source El | lovatio | ne (in f | iontl | | |
| Centerline Dist. to Observer: | 44.0 feet | | 14013 | Auto: | | 0.000 | eeij | | |
| Barrier Distance to Observer: | 0.0 feet | | 14 | dium Truck. | (| 2.000 | | | |
| Observer Height (Above Pad): | 5.0 feet | | | leavy Truck | · - | 3.004 | Grade Ad | iustmant | . 00 |
| Pad Elevation: | 0.0 feet | | , | leavy ITUCK | s. c | 0.004 | Orace Au | astricii | . 0.0 |
| Road Elevation: | 0.0 feet | | Lane | Equivalent | t Dista | nce (in | feet) | | |
| Road Grade: | 0.0% | | | Auto | s: 40 | 0.460 | | | |
| Left View: | -90.0 degree | s | Me | dium Truck | s: 40 | 0.241 | | | |
| Right View: | 90.0 degree | s | F | leavy Truck | s: 40 | 0.262 | | | |
| HWA Noise Model Calculation | ns | | - | | | | | | |
| VehicleType REMEL | Traffic Flow | Distant | | nite Road | Fres | | Barrier Att | | rm Atten |
| Autos: 66.5 | | | 1.28 | -1.20 | | -4.61 | | 000 | 0.000 |
| Medium Trucks: 77.7: | | | 1.31 | -1.20 | | -4.87 | | 000 | 0.000 |
| Heavy Trucks: 82.9 | | | 1.31 | -1.20 | | -5.50 | 0.0 | 000 | 0.000 |
| Inmitigated Noise Levels (with VehicleType Leg Peak Ho | | _ | t tenuatio q Evenin | - | Night | | Ldn | | NFL. |
| | | 32.2 | | 9 Leq 60.5 | Nigrit 54 | 4 | 63.0 | _ | 63.6 |
| | | 666 | | i0.3 | 48 | | 57.1 | | 57.4 |
| | | i8.0 | - | 9.0 | 50 | | 58.6 | - | 58.7 |
| | | 64.4 | | 11.1 | 56 | | 65. | | 65.6 |
| Centerline Distance to Noise C | Contour (in feet) | | | | | | | | |
| | | | 70 dBA | | dBA | | 60 dBA | | dBA |
| | L | .dn: | | 21 | 4 | 5 | 97 | | 208 |
| | | IEL: | | 22 | | 8 | 104 | | 223 |

Wednesday, March 10, 2021 Wednesday, March 10, 2021

| | FH\ | WA-RD-77-108 | HIG | HWAY | NOISE P | REDICTI | ION MO | DDEL | | | |
|-------------------------------|--|-----------------|--------------|--------|--------------|-----------|-----------------|-----------|--------------|---------|--------------|
| Road Na | ario: Existing Wi me: Jurupa Av. ent: e/o Linden | , | | | | | Name: umber: | | ington Bus | iness P | ar |
| | SPECIFIC IN | IPUT DATA | | | 0:: 0 | | | | L INPUT | s | |
| Highway Data | | | | | Site Cor | aitions | (Hara : | | | | |
| | y Traffic (Adt): | 3,490 vehicle | es | | | | | Autos: | | | |
| | r Percentage: | 10.00% | | | | edium Tru | | | | | |
| | Hour Volume: | 349 vehicle | S | | He | eavy Truc | cks (3+ | Axles): | 15 | | |
| | ehicle Speed: | 40 mph | | | Vehicle | Mix | | | | | |
| Near/Far L | ane Distance: | 48 feet | | | Veh | icleType | | Day | Evening | Night | Daily |
| Site Data | | | | | | | Autos: | 77.5% | 12.9% | 9.69 | 97.42% |
| R | arrier Height: | 0.0 feet | | | М | edium Tı | rucks: | 84.8% | 4.9% | 10.39 | 1.84% |
| Barrier Type (0- | | 0.0 | | | | Heavy Ti | rucks: | 86.5% | 2.7% | 10.89 | 0.74% |
| Centerline E | Dist. to Barrier: | 52.0 feet | | | Noise S | ource El | evatio | ns (in fe | eet) | | |
| Centerline Dist | t. to Observer: | 52.0 feet | | | | Autos | | .000 | | | |
| Barrier Distance | e to Observer: | 0.0 feet | | | Mediu | m Trucks | | 297 | | | |
| Observer Height | (Above Pad): | 5.0 feet | | | | vy Trucks | | .004 | Grade Ad | iustmen | t: 0.0 |
| ı | Pad Elevation: | 0.0 feet | | | | | | | | , | |
| R | oad Elevation: | 0.0 feet | | | Lane Eq | | | _ • | feet) | | |
| | Road Grade: | 0.0% | | | | Autos | | .400 | | | |
| | Left View: | -90.0 degre | es | | Mediu | m Trucks | s: 46 | .209 | | | |
| | Right View: | 90.0 degre | es | | Hea | vy Trucks | s: 46 | 5.228 | | | |
| FHWA Noise Mod | | - | | ' | | | | | | | |
| VehicleType | REMEL | Traffic Flow | | stance | | Road | Fres | | Barrier Att | | rm Atten |
| Autos | | | | 0.0 | | -1.20 | | -4.66 | | 000 | 0.000 |
| Medium Trucks | | | | 0.4 | | -1.20 | | -4.87 | | 000 | 0.000 |
| Heavy Trucks | | | | 0.4 | • • | -1.20 | | -5.41 | 0.0 | 000 | 0.000 |
| Unmitigated Nois | | | | | | | | | | | |
| VehicleType | Leq Peak Hou | | _ | Leq E | vening | | Night | | Ldn | | NEL |
| Autos | | | 57.8 | | 56.0 | | 50 | - | 58.6 | - | 59.2 |
| Medium Trucks | | | 52.2 | | 45.8 | | 44 | | 52.7 | | 53.0 |
| Heavy Trucks Vehicle Noise | | | 53.6 60.0 | | 44.5 56.7 | | 45 52 | | 54.1 60.1 | | 54.3 61.1 |
| Centerline Distar | nce to Noise Co | ontour (in feet |) | | | | | | | | |
| Contenine Distan | 10 110136 01 | JJui (iii leet | , | 70 | dBA | 65 (| dBA | 6 | 60 dBA | 5 | 5 dBA |
| | | | Ldn: | | 12 | | 2 | 7 | 58 | | 124 |
| | | C | NEL: | | 13 | | 2 | 9 | 62 | ! | 133 |

| Scenario | : Existing + S | SP. | | | | Project | Mama. | Bloom | ington Bus | noce Pr | r |
|---------------------|----------------|----------------|------|--------|----------|----------|-----------|----------|-------------|----------|------------|
| Road Name | | or- | | | | | lumber: | | ington bus | iless Fa | |
| Road Segment | | Ana Av. | | | | 0001 | iumber. | 12331 | | | |
| SITE S | PECIFIC IN | IPUT DATA | | | | _ | NOISE | MODE | L INPUT | S | |
| Highway Data | | | | S | ite Con | | | | | | |
| Average Daily T | raffic (Adt): | 28,707 vehicl | es | | | | | Autos: | 15 | | |
| Peak Hour F | Percentage: | 10.00% | | | Me | dium Tr | ucks (2 | Axles): | 15 | | |
| Peak Ho | ur Volume: | 2,871 vehicle | s | | He | avy Tru | cks (3+ | Axles): | 15 | | |
| Veh | icle Speed: | 50 mph | | | ehicle l | Wix | | | | | |
| Near/Far Lan | e Distance: | 76 feet | | F | | icleType | 9 | Dav | Evening | Night | Dailv |
| Site Data | | | | | | | Autos: | 77.5% | 12.9% | 9.6% | 97.43% |
| Rarr | ier Height: | 0.0 feet | | | M | edium T | rucks: | 84.8% | 4.9% | 10.3% | 1.83% |
| Barrier Type (0-Wa | | 0.0 | | | F | Heavy T | rucks: | 86.5% | 2.7% | 10.8% | 0.749 |
| Centerline Dist | t. to Barrier: | 60.0 feet | | ٨ | loise Sc | ource E | levatio | ns (in f | eet) | | |
| Centerline Dist. to | Observer: | 60.0 feet | | | | Auto | s: C | 0.000 | , | | |
| Barrier Distance to | Observer: | 0.0 feet | | | Mediu | m Truck | | .297 | | | |
| Observer Height (A | | 5.0 feet | | | | y Truck | | 004 | Grade Ad | ustment | : 0.0 |
| | d Elevation: | 0.0 feet | | L | | • | | | | | |
| | d Elevation: | 0.0 feet | | L | ane Eq | | | | feet) | | |
| R | oad Grade: | 0.0% | | | | Auto | | 3.701 | | | |
| | Left View: | -90.0 degre | es | | | m Truck | | 3.511 | | | |
| | Right View: | 90.0 degre | es | | Heav | y Truck | s: 46 | 3.530 | | | |
| FHWA Noise Model | Calculation: | s | | | | | | | | | |
| VehicleType | REMEL | Traffic Flow | | ance | | Road | Fres | | Barrier Att | | m Atten |
| Autos: | 70.20 | 2.17 | | 0.34 | | -1.20 | | -4.69 | | 000 | 0.00 |
| Medium Trucks: | 81.00 | -15.09 | | 0.37 | | -1.20 | | -4.88 | | 000 | 0.00 |
| Heavy Trucks: | 85.38 | -19.05 | | 0.37 | , | -1.20 | | -5.34 | 0.0 | 000 | 0.00 |
| Unmitigated Noise | | | | | | | | | | | |
| ,,, . | eq Peak Hou | | | Leq Ev | | Leq | Night | | Ldn | | NEL |
| Autos: | 71 | | 69.6 | | 67.9 | | 61 | | 70.4 | | 71. |
| Medium Trucks: | 65 | | 63.6 | | 57.2 | | 55 | | 64.1 | | 64. |
| Heavy Trucks: | 65 | | 64.1 | | 55.0 | | 56 | | 64.6 | | 64. |
| Vehicle Noise: | 73 | | 71.5 | | 68.4 | | 63 | .υ | 72.2 | <u> </u> | 72. |
| | | |) | | | | | | | | |
| Centerline Distance | e to Noise Co | ontour (in ree | | 70 ~ | DΛ | e e | AD A | | SO ADA | FF | ADA |
| Centerline Distance | e to Noise Co | ontour (in ree | Ldn: | 70 d | BA 84 | 65 | dBA 18 | | 389 389 | 55 | dBA 838 |

| Ca | o: Existing + \$ | en. | | | | Drains* | Nome: | Dleor | naton D | iness D- | |
|-------------------------------|------------------------------|----------------|------|--------------------|-----------|----------------|-----------------|---------|-------------|----------|----------|
| | e: Cedar Av. | 5P | | | | | vame: imber: | | ington Bus | iness Pa | ır |
| Road Segmen | | Ana Av | | | | JOD IVE | iiiibei. | 12991 | | | |
| | | IPUT DATA | | | | N | OISE I | MODE | L INPUT | 6 | |
| Highway Data | SPECIFIC II | IFOI DAIA | | 5 | Site Con | ditions (| | | | 3 | |
| Average Daily | Traffic (Adt): | 19.641 vehic | les | | | | | Autos: | 15 | | |
| Peak Hour | Percentage: | 10.00% | | | Ме | dium Tru | cks (2) | Axles): | 15 | | |
| Peak H | our Volume: | 1,964 vehicle | es | | He | avy Truc | ks (3+) | Axles): | 15 | | |
| Vel | nicle Speed: | 45 mph | | 1 | /ehicle l | Miv | | | | | |
| Near/Far Lar | ne Distance: | 48 feet | | Ľ. | | icleType | | Dav | Evening | Night | Dailv |
| Site Data | | | | | | A | utos: | 77.5% | 12.9% | 9.6% | 97.069 |
| Rar | rier Height: | 0.0 feet | | | M | edium Tru | ıcks: | 84.8% | 4.9% | 10.3% | 1.939 |
| Barrier Type (0-W | - | 0.0 | | | - 1 | Heavy Tru | ıcks: | 86.5% | 2.7% | 10.8% | 1.029 |
| Centerline Dis | t. to Barrier: | 52.0 feet | | , | Voico Sa | ource Ele | wation | c (in f | not) | | |
| Centerline Dist. t | o Observer: | 52.0 feet | | ľ | V0/36 30 | Autos | | 000 | eij | | |
| Barrier Distance t | o Observer: | 0.0 feet | | | Mediu | m Trucks | | 297 | | | |
| Observer Height (| Above Pad): | 5.0 feet | | | | vy Trucks | | 004 | Grade Ad | iustment | 0.0 |
| Pa | d Elevation: | 0.0 feet | | | | | | | | , | |
| | d Elevation: | 0.0 feet | | L | ane Eq | uivalent | | | feet) | | |
| F | Road Grade: | 0.0% | | | | Autos | | 400 | | | |
| | Left View: | -90.0 degre | | | | m Trucks | | 209 | | | |
| | Right View: | 90.0 degre | es | | Heav | y Trucks | : 46. | 228 | | | |
| FHWA Noise Mode | | | | | , | | | | | | |
| VehicleType | REMEL | Traffic Flow | | stance | | Road | Fresi | | Barrier Att | | rm Atten |
| Autos: | 68.46 | | | 0.38 | - | -1.20 | | -4.66 | | 000 | 0.00 |
| Medium Trucks: | 79.45 | | | 0.41 | | -1.20 -1.20 | | -4.87 | | 000 | 0.00 |
| Heavy Trucks: | 84.25 | | | 0.41 | | -1.20 | | -5.41 | 0.0 | 000 | 0.00 |
| Unmitigated Noise VehicleType | Levels (with Leg Peak Hou | | | er atten Leg Ev | | Leg N | liabt | 1 | Ldn | | NEL |
| Autos: | | 3.6 Ley Da | 66.7 | Ley Ev | 64.9 | Leq | 1911t 58.9 | 2 | 67.5 | _ | 68 |
| Medium Trucks: | | 2.6 | 61.1 | | 54.7 | | 53.3 | - | 61.6 | - | 61 |
| Heavy Trucks: | | 1.6 | 63.2 | | 54.2 | | 55.4 | _ | 63.4 | - | 63. |
| Vehicle Noise: | | 0.8 | 69.1 | | 65.7 | | 61.2 | | 69. | | 70. |
| Centerline Distanc | e to Noise C | ontour (in fee | t) | | | | | | | | |
| | | | | 70 a | iBA | 65 a | IBA | 6 | 0 dBA | 55 | dBA |
| | | | Ldn: | | 50 | | 108 | | 233 | | 502 |
| | | | NEL: | | 00 | | | | | | |

Wednesday, March 10, 2021

| | FH\ | WA-RD-77-108 | HIGH | HWAY | NOISE PI | REDICTI | ON M | ODEL | | | |
|-----------------------------------|--|---|------|--------|-----------------|--------------------------------|--------------|-------------------------|--------------|----------------|-------------|
| Road Na | ario: Existing + s nme: Cedar Av. nent: n/o 7th St. | SP | | | | | | Bloom 12991 | ington Bus | iness Pa | ır |
| SITI Highway Data | SPECIFIC IN | NPUT DATA | | | Site Con | | | | L INPUT | s | |
| Average Dail Peak Hou Peak | y Traffic (Adt): ur Percentage: Hour Volume: /ehicle Speed: | 20,551 vehicle 10.00% 2,055 vehicle 45 mph | | | Me He | edium Tru eavy Truc | ucks (2 | Autos Axles) | : 15 : 15 | | |
| | ane Distance: | 48 feet | | | Vehicle I | MIX icleType | | Dav | Evening | Night | Daily |
| Site Data | | | | | | , , , | Autos: | 77.59 | 6 12.9% | 9.6% | 97.31% |
| Barrier Type (0- | arrier Height: Wall, 1-Berm): | 0.0 feet 0.0 | | | | edium Ti Heavy Ti | | 84.89 86.59 | | 10.3% 10.8% | |
| | Dist. to Barrier: | 52.0 feet | | | Noise So | ource El | evatio | ns (in f | eet) | | |
| Barrier Distanc Observer Heigh | | 52.0 feet 0.0 feet 5.0 feet 0.0 feet | | | | Auto: m Truck: /y Truck: | s: 2 | 0.000 2.297 3.004 | Grade Ad | ljustment | ± 0.0 |
| | oad Elevation: | 0.0 feet | | | Lane Eq | uivalent | Dista | nce (in | feet) | | |
| | Road Grade: | 0.0% | | | | Autos | s: 46 | 5.400 | , | | |
| | Left View: Right View: | -90.0 degre 90.0 degre | | | | m Truck: /y Truck: | | 6.209 6.228 | | | |
| FHWA Noise Mo | del Calculation | ıs | | | | | | | | | |
| VehicleType | REMEL | Traffic Flow | Dis | stance | Finite | Road | Fres | inel | Barrier Att | en Bei | rm Atten |
| Autos | s: 68.46 | 1.17 | | 0.3 | 38 | -1.20 | | -4.66 | 0. | 000 | 0.000 |
| Medium Trucks | | | | 0.4 | | -1.20 | | -4.87 | | 000 | 0.000 |
| Heavy Trucks | | | | 0.4 | | -1.20 | | -5.41 | 0. | 000 | 0.000 |
| Unmitigated Noi | | | | | | | N II oo lo d | - | 1 -1- | | NE |
| VehicleType Auto: | Leq Peak Hou | ur Leq Day | 66.9 | Leq E | Evening 65.2 | | Night 59 | 1 | Ldn 67 | | NEL 68.3 |
| Medium Truck | | o.o o.7 | 61.1 | | 54.8 | | 53 | | 61. | | 61.9 |
| Heavy Trucks | | 3.9 | 62.5 | | 53.5 | | 54 | - | 63. | | 63.2 |
| Vehicle Noise | | 0.8 | 69.0 | | 65.8 | | 61 | | 69. | | 70.2 |
| Centerline Dista | nce to Noise C | ontour (in feet |) | | | | | | | _ | |
| | | | L | 70 | dBA | 65 | dBA | | 60 dBA | | dBA |
| | | _ | Ldn: | | 50 | | 10 | - | 232 | - | 500 |
| | | С | NEL: | | 54 | | 11 | 5 | 249 | 9 | 536 |

Wednesday, March 10, 2021

| | FHW | VA-RD-77-108 | HIGH | HWAY N | OISE P | REDICTI | ION MC | DDEL | | | |
|-------------------|---|-----------------|------|--------|----------|-----------|-----------------|-----------|-------------|----------|-----------|
| Road Nan | rio: Existing + S ne: Santa Ana A ent: e/o Sierra A | Av. | | | | | Name: umber: | | ington Bus | iness P | ar |
| | SPECIFIC IN | PUT DATA | | | | | | | L INPUT | s | |
| Highway Data | | | | 5 | Site Cor | ditions | (Hard = | = 10, Sc | oft = 15) | | |
| Average Daily | Traffic (Adt): | 8,087 vehicle | es | | | | | Autos: | 15 | | |
| Peak Hour | Percentage: | 10.00% | | | Me | dium Tru | ucks (2 | Axles): | 15 | | |
| Peak H | Hour Volume: | 809 vehicles | S | | He | avy Truc | cks (3+ | Axles): | 15 | | |
| Ve | ehicle Speed: | 40 mph | | 1 | /ehicle | Mix | | | | | |
| Near/Far La | ane Distance: | 36 feet | | F | | icleType | | Dav | Evening | Niaht | Daily |
| Site Data | | | | | | | Autos: | 77.5% | - | 9.69 | 6 97.47% |
| Ra | rrier Height: | 0.0 feet | | | М | edium Tr | rucks: | 84.8% | 4.9% | 10.39 | 6 1.80% |
| Barrier Type (0-V | | 0.0 | | | | Heavy Tr | rucks: | 86.5% | 2.7% | 10.89 | 6 0.72% |
| | ist. to Barrier: | 44.0 feet | | , | loise S | ource Ele | evation | ns (in fe | eet) | | |
| Centerline Dist. | to Observer: | 44.0 feet | | | | Autos | | .000 | , | | |
| Barrier Distance | | 0.0 feet | | | Mediu | m Trucks | s: 2 | .297 | | | |
| Observer Height | (Above Pad): | 5.0 feet | | | | y Trucks | | .004 | Grade Ad | liustmei | nt: 0.0 |
| P | ad Elevation: | 0.0 feet | | | | | | | | | |
| Ro | ad Elevation: | 0.0 feet | | L | .ane Eq | uivalent | | _ • | feet) | | |
| | Road Grade: | 0.0% | | | | Autos | | .460 | | | |
| | Left View: | -90.0 degree | es | | | m Trucks | | .241 | | | |
| | Right View: | 90.0 degree | es | | Hea | y Trucks | s: 40 | .262 | | | |
| FHWA Noise Mod | lel Calculations | 3 | | | | | | | | | |
| VehicleType | REMEL | Traffic Flow | Dis | stance | Finite | Road | Fres | nel | Barrier Att | en Be | erm Atten |
| Autos: | | -2.36 | | 1.28 | | -1.20 | | -4.61 | | 000 | 0.000 |
| Medium Trucks: | | -19.69 | | 1.31 | | -1.20 | | -4.87 | | 000 | 0.000 |
| Heavy Trucks: | 82.99 | -23.65 | | 1.31 | l | -1.20 | | -5.50 | 0.0 | 000 | 0.000 |
| Unmitigated Nois | | | | | | | | | | | |
| VehicleType | Leq Peak Hou | | | Leq Ev | | _ | Night | | Ldn | | ONEL |
| Autos: | | _ | 62.3 | | 60.6 | | 54. | - | 63. | | 63.7 |
| Medium Trucks: | | | 56.6 | | 50.3 | | 48. | | 57. | _ | 57.4 |
| Heavy Trucks: | | | 58.0 | | 49.0 | | 50. | | 58. | | 58.7 |
| Vehicle Noise: | | | 64.5 | | 61.2 | | 56. | .7 | 65. | 2 | 65.6 |
| Centerline Distan | ce to Noise Co | ntour (in feet, |) | 70 o | IRΔ | 65 / | dBA | - | SO dBA | | 5 dBA |
| | | | Ldn: | 700 | 21 | 00 0 | 4 | | 98 | | 210 |
| | | | NEL: | | 23 | | 49 | | 105 | | 210 |
| | | Ci | VLL. | | 23 | | 43 | 9 | 100 | , | 225 |

| | FHW | A-RD-77-108 | HIGI | WAY N | OISE P | REDICT | TON MC | DEL | | | |
|--|-----------|------------------|--------------|--------|--------------|----------|--------------------|----------|--------------|---------|------------|
| Scenario: Exi Road Name: Jur Road Segment: e/o | upa Av. | | | | | | t Name: lumber: | | ngton Bus | ness Pa | r |
| SITE SPEC | IFIC INF | UT DATA | | | | | | | L INPUT | S | |
| Highway Data | | | | S | ite Con | ditions | (Hard = | | | | |
| Average Daily Traffic | . , | 3,704 vehicle | es | | | | | Autos: | | | |
| Peak Hour Perce | - | 0.00% | | | | | ucks (2 | | | | |
| Peak Hour Vo | | 370 vehicles | 3 | | He | avy Tru | cks (3+ | Axles): | 15 | | |
| Vehicle S | , | 40 mph | | V | ehicle | Mix | | | | | |
| Near/Far Lane Dis | tance: | 48 feet | | | Veh | icleType | 9 | Day | Evening | Night | Daily |
| Site Data | | | | | | | Autos: | 77.5% | 12.9% | 9.6% | 95.27% |
| Barrier H | leiaht: | 0.0 feet | | | М | edium T | rucks: | 84.8% | 4.9% | 10.3% | 2.33% |
| Barrier Type (0-Wall, 1-I | - | 0.0 | | | 1 | Heavy T | rucks: | 86.5% | 2.7% | 10.8% | 2.40% |
| Centerline Dist. to E | Barrier: | 52.0 feet | | | loise So | nurce F | levation | s (in fe | et) | | |
| Centerline Dist. to Obs | server: | 52.0 feet | | F | . 0.00 | Auto | | .000 | | | |
| Barrier Distance to Obs | server: | 0.0 feet | | | Mediu | m Truck | 0. | .297 | | | |
| Observer Height (Above | Pad): | 5.0 feet | | | | v Truck | | 004 | Grade Ad | ustment | 0.0 |
| Pad Ele | vation: | 0.0 feet | | | | | | | | | |
| Road Ele | vation: | 0.0 feet | | L | ane Eq | | t Distan | _ • | feet) | | |
| Road (| Grade: | 0.0% | | | | Auto | | .400 | | | |
| | View: | -90.0 degree | es | | | m Truck | | .209 | | | |
| Right | View: | 90.0 degree | es | | Heav | ry Truck | s: 46 | .228 | | | |
| FHWA Noise Model Cale | culations | | | | | | | | | | |
| VehicleType RE | MEL | Traffic Flow | Dis | stance | Finite | Road | Fresi | nel | Barrier Att | en Ber | m Atten |
| Autos: | 66.51 | -5.85 | | 0.38 | | -1.20 | | -4.66 | | 000 | 0.00 |
| Medium Trucks: | 77.72 | -21.97 | | 0.41 | | -1.20 | | -4.87 | | 000 | 0.00 |
| Heavy Trucks: | 82.99 | -21.84 | | 0.41 | | -1.20 | | -5.41 | 0.0 | 000 | 0.00 |
| Unmitigated Noise Leve | | | | | | | | | | | |
| | eak Hour | Leq Day | | Leq Ev | | | Night | | Ldn | | NEL |
| Autos: | 59.8 | | 57.9 | | 56.2 | | 50. | | 58.7 | | 59. |
| Medium Trucks: | 55.0 | | 53.4 | | 47.1 | | 45. | | 54.0 | | 54. |
| Heavy Trucks: Vehicle Noise: | 60.4 | | 58.9 62.1 | | 49.9 57.5 | | 51. 54. | | 59.5 62.8 | | 59. 63. |
| Centerline Distance to N | loise Con | tour (in feet | | | | | | | | | |
| Centernine Distance to r | 10136 001 | itour (ill leet) | | 70 d | BA | 65 | dBA | 6 | 0 dBA | 55 | dBA |
| | | | Ldn: | | 17 | | 37 | , | 80 | | 171 |
| | | | Luii. | | 17 | | 31 | | 00 | | |

| | | | | | | | | - | | | |
|---------------------|----------------|-----------------|-------|---------|-----------|----------|----------|----------|-------------|-----------|---------|
| | : Opening Ye | ar | | | | | | | ington Bus | iness Pa | r |
| | : Sierra Av. | | | | | Job N | lumber: | 12991 | | | |
| Road Segment | . n/o Santa Al | na Av. | | | | | | | | | |
| | PECIFIC IN | PUT DATA | | | 0 | | | | L INPUT | S | |
| Highway Data | | | | | Site Con | aitions | (Hara : | = 10, S | ort = 15) | | |
| Average Daily T | raffic (Adt): | 29,660 vehicle | S | | | | | Autos. | | | |
| Peak Hour F | Percentage: | 10.00% | | | | dium Tr | | , | | | |
| Peak Ho | ur Volume: | 2,966 vehicles | | | He | avy Tru | cks (3+ | Axles). | 15 | | |
| Veh | icle Speed: | 50 mph | | ŀ | Vehicle I | Mix | | | | | |
| Near/Far Lan | e Distance: | 76 feet | | Ī | Veh | icleType | • | Day | Evening | Night | Daily |
| Site Data | | | | | | | Autos: | 77.5% | 12.9% | 9.6% | 97.42 |
| Ran | ier Height: | 0.0 feet | | | M | edium T | rucks: | 84.89 | 4.9% | 10.3% | 1.84 |
| Barrier Type (0-Wa | | 0.0 | | | - 1 | Heavy T | rucks: | 86.5% | 2.7% | 10.8% | 0.74 |
| Centerline Dist | to Barrier: | 60.0 feet | | ŀ | Noise So | urco E | lovatio | ac (in f | not) | | |
| Centerline Dist. to | Observer: | 60.0 feet | | F | NOISE SC | Auto | | .000 | eei) | | |
| Barrier Distance to | Observer: | 0.0 feet | | | Modius | m Truck | | .000 | | | |
| Observer Height (A | lbove Pad): | 5.0 feet | | | | y Truck | | .004 | Grade Ad | iuctmont | . 0.0 |
| Pad | d Elevation: | 0.0 feet | | | пеач | ry IIUCH | S. C | .004 | Grade Au | justinent | . 0.0 |
| Road | d Elevation: | 0.0 feet | | | Lane Eq | uivalen | t Distar | ice (in | feet) | | |
| R | oad Grade: | 0.0% | | | | Auto | s: 46 | .701 | | | |
| | Left View: | -90.0 degree | S | | Mediu | m Truck | s: 46 | .511 | | | |
| | Right View: | 90.0 degree | S | | Heav | y Truck | s: 46 | .530 | | | |
| FHWA Noise Model | Calculations | ; | | | | | | | | | |
| VehicleType | REMEL | Traffic Flow | Dis | tance | Finite | Road | Fres | nel | Barrier Att | en Ber | m Atter |
| Autos: | 70.20 | 2.31 | | 0.3 | 14 | -1.20 | | -4.69 | 0.0 | 000 | 0.00 |
| Medium Trucks: | 81.00 | -14.93 | | 0.3 | 7 | -1.20 | | -4.88 | 0.0 | 000 | 0.00 |
| Heavy Trucks: | 85.38 | -18.88 | | 0.3 | 7 | -1.20 | | -5.34 | 0.0 | 000 | 0.00 |
| Unmitigated Noise | Levels (witho | out Topo and b | arrie | r atter | nuation) | | | | | | |
| VehicleType I | eq Peak Hour | r Leq Day | | Leq E | vening | Leq | Night | | Ldn | | NEL |
| Autos: | 71. | 7 6 | 9.8 | | 68.0 | | 61 | .9 | 70.6 | 3 | 71 |
| Medium Trucks: | 65. | 2 6 | 3.7 | | 57.4 | | 55 | .8 | 64.3 | 3 | 64 |
| Heavy Trucks: | 65. | | 4.2 | | 55.2 | | 56 | .5 | 64.8 | 3 | 64 |
| Vehicle Noise: | 73. | 4 7 | 1.6 | | 68.6 | | 63 | .8 | 72. | 3 | 72 |
| Centerline Distance | to Noise Co | ntour (in feet) | | | | | | | | , | |
| | | | L | 70 | dBA | 65 | dBA | | 60 dBA | | dBA |
| | | L | .dn: | | 86 | | 18 | | 398 | | 85 |
| | | | EL: | | 92 | | 19 | | 428 | | 92 |

Wednesday, March 10, 2021

| FH | WA-RD-77-108 H | IGHWAY I | NOISE PI | REDICTI | ON MODEL | | |
|--|---|--------------|-----------|-----------------------|---|---------------------|-------------|
| Scenario: Opening \ Road Name: Cedar Av. Road Segment: n/o Santa | | | | | Name: Bloon umber: 1299 | nington Busine I | ss Par |
| SITE SPECIFIC I | NPUT DATA | | | | OISE MOD | | |
| Highway Data | | | Site Con | ditions | (Hard = 10, S | oft = 15) | |
| Average Daily Traffic (Adt): Peak Hour Percentage: Peak Hour Volume: Vehicle Speed: | 23,440 vehicles 10.00% 2,344 vehicles 45 mph | | He | avy Truc | Autos ucks (2 Axles) cks (3+ Axles) | : 15 | |
| Near/Far Lane Distance: | 48 feet | | Vehicle I | | | T T . | |
| Site Data | 40 1000 | | Veh | icleType A | Day Autos: 77.59 | | 9.6% 97.42% |
| Barrier Height: | 0.0 feet | | M | edium Tı | ucks: 84.89 | % 4.9% 1 | 0.3% 1.84% |
| Barrier Type (0-Wall, 1-Berm): | 0.0 | | I | Heavy Ti | ucks: 86.59 | % 2.7% 1 | 0.74% |
| Centerline Dist. to Barrier: | 52.0 feet | - | Noise So | ource El | evations (in | feet) | |
| Centerline Dist. to Observer: | 52.0 feet | İ | | Autos | | , | |
| Barrier Distance to Observer: | 0.0 feet | | Mediu | m Trucks | s: 2.297 | | |
| Observer Height (Above Pad): | 5.0 feet | | | y Trucks | | Grade Adjus | tment: 0.0 |
| Pad Elevation: | 0.0 feet | | | | | | |
| Road Elevation: | 0.0 feet | | Lane Eq | | Distance (in | feet) | |
| Road Grade: | 0.0% | | | Auto | | | |
| Left View: Right View: | -90.0 degrees 90.0 degrees | | | m Truck: vy Truck: | | | |
| FHWA Noise Model Calculation | | | | | | | |
| VehicleType REMEL | Traffic Flow | Distance | Finite | Road | Fresnel | Barrier Atten | Berm Atten |
| Autos: 68.4 | | 0.3 | | -1.20 | -4.66 | | |
| Medium Trucks: 79.4 | | 0.4 | | -1.20 | -4.87 | | |
| Heavy Trucks: 84.2 | | 0.4 | | -1.20 | -5.41 | | |
| Unmitigated Noise Levels (with | hout Topo and ba | arrier attei | nuation) | | | | |
| VehicleType Leq Peak Ho | | | vening | | Night | Ldn | CNEL |
| Autos: 6 | 9.4 67 | '.5 | 65.7 | | 59.7 | 68.3 | 68.9 |
| Medium Trucks: 6 | 3.2 61 | .7 | 55.3 | | 53.8 | 62.2 | 62.4 |
| Heavy Trucks: 6 | 4.0 62 | 2.6 | 53.6 | | 54.8 | 63.2 | 63.3 |
| Vehicle Noise: 7 | 1.2 69 |).5 | 66.3 | | 61.7 | 70.2 | 70.7 |
| Centerline Distance to Noise C | contour (in feet) | 70 | -10.4 | | -(D.4 | CO -/D4 | 55 -IDA |
| | | | dBA | 05 | dBA 116 | 60 dBA | 55 dBA |
| | Lo CNE | | 54 58 | | 116 124 | 249 267 | 537 576 |
| | CNE | L. | 58 | | 124 | 207 | 5/6 |

| | FHV | VA-RD-77-108 | HIGI | I YAWH | NOISE P | REDICT | ION MO | ODEL | | | |
|-------------------|--|----------------|--------------|----------|-----------|----------|------------------|-----------|-------------|-----------|---------|
| Road Nar | rio: Opening Ye me: Cedar Av. ent: n/o 7th St. | ear | | | | | Name: lumber: | | ington Bus | iness Pa | ır |
| | SPECIFIC IN | PUT DATA | | | 0 | | | | L INPUT | S | |
| Highway Data | | | | | Site Cor | aitions | (Hara : | = 10, Sc | ort = 15) | | |
| Average Daily | | 24,290 vehicle | es | | | | | Autos: | | | |
| | r Percentage: | 10.00% | | | | dium Tr | | | | | |
| | Hour Volume: | 2,429 vehicle | S | | He | avy Tru | cks (3+ | Axles): | 15 | | |
| V | ehicle Speed: | 45 mph | | l l | Vehicle | Mix | | | | | |
| Near/Far La | ane Distance: | 48 feet | | ŀ | Veh | icleType | | Day | Evening | Night | Daily |
| Site Data | | | | | | | Autos: | 77.5% | 12.9% | 9.6% | 97.42% |
| Ba | arrier Height: | 0.0 feet | | | М | edium T | rucks: | 84.8% | 4.9% | 10.3% | 1.84% |
| Barrier Type (0-V | | 0.0 | | | | Heavy T | rucks: | 86.5% | 2.7% | 10.8% | 0.74% |
| Centerline D | ist. to Barrier: | 52.0 feet | | ŀ | Noise S | urce F | lovatio | ne (in fa | not) | | |
| Centerline Dist. | to Observer: | 52.0 feet | | F | 110/36 01 | Auto | | 0.000 | | | |
| Barrier Distance | to Observer: | 0.0 feet | | | Modiu | m Truck | | 297 | | | |
| Observer Height | (Above Pad): | 5.0 feet | | | | vy Truck | | 3.004 | Grade Ad | liustmant | . 00 |
| F | Pad Elevation: | 0.0 feet | | | i ica | y IIUCK | s. c | 5.004 | Orauc Au | jastinoni | . 0.0 |
| Ro | ad Elevation: | 0.0 feet | | | Lane Eq | uivalen | t Distar | nce (in | feet) | | |
| | Road Grade: | 0.0% | | | | Auto | s: 46 | 6.400 | | | |
| | Left View: | -90.0 degree | es | | Mediu | m Truck | s: 46 | 5.209 | | | |
| | Right View: | 90.0 degree | es | | Hea | y Truck | s: 46 | 5.228 | | | |
| FHWA Noise Mod | lel Calculation | S | | | | | | | | | |
| VehicleType | REMEL | Traffic Flow | Di | stance | Finite | Road | Fres | inel | Barrier Att | en Bei | m Atten |
| Autos. | 68.46 | 1.90 | | 0.3 | 88 | -1.20 | | -4.66 | 0.0 | 000 | 0.000 |
| Medium Trucks. | 79.45 | -15.34 | | 0.4 | 11 | -1.20 | | -4.87 | 0.0 | 000 | 0.000 |
| Heavy Trucks. | 84.25 | -19.29 | | 0.4 | 11 | -1.20 | | -5.41 | 0.0 | 000 | 0.000 |
| Unmitigated Nois | e Levels (with | out Topo and | barri | er atter | nuation) | | | | | | |
| VehicleType | Leq Peak Hou | | | Leq E | vening | | Night | | Ldn | _ | NEL |
| Autos. | | | 67.6 | | 65.9 | | 59 | | 68. | | 69.1 |
| Medium Trucks. | | | 61.8 | | 55.5 | | 53 | | 62. | | 62.6 |
| Heavy Trucks. | | | 62.7 | | 53.7 | | 55 | | 63. | - | 63.4 |
| Vehicle Noise. | 71 | .4 | 69.6 | | 66.5 | | 61 | .8 | 70. | 4 | 70.8 |
| Centerline Distan | ce to Noise Co | ntour (in feet |) | | | | | | | | |
| | | | , ,,, | /0 | dBA | 65 | dBA | | 0 dBA | | dBA |
| | | | Ldn: NFL: | | 55 | | 11 | | 255 | | 550 |
| | | C | NEL: | | 59 | | 12 | / | 274 | | 590 |

| Average Daily Traffic (Adt): 8,730 vehicles Peak Hour Percentage: 10,00% Medium Trucks (2 Axles): 15 | UTS 5) ing Night Daily |
|--|------------------------------|
| Average Daily Traffic (Adt): 8,730 vehicles Peak Hour Percentage: 10,00% Peak Hour Volume: 873 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 36 feet Site Data Site Conditions (Hard = 10, Soft = 15 Autos: 15 Hedurn Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15 Vehicle Mix VehicleType Day Evenii Autos: 77.5% 12,5 | ing Night Daily |
| Average Daily Traffic (Adt): 8,730 vehicles Autos: 15 | ing Night Daily |
| Peak Hour Percentage: 10.00% Medium Trucks (2 Axles): 15 Peak Hour Volume: 873 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 36 feet Vehicle Type Day Eveniu Site Data Medium Trucks (2 Axles): 15 Vehicle Mix Vehicle Mix Vehicle Type Day Eveniu | 0 0 |
| Peak Hour Volume: 873 vehicles Heavy Trucks (3+ Axles): 15 Vehicle Speed: 40 mph Vehicle Mix Vehicle Type Day Evenin Site Data Autos: 77.5% 12.5 | 0 0 |
| Vehicle Speed: 40 mph Vehicle Mix Near/Far Lane Distance: 36 feet Vehicle Type Day Evenii Site Data Autos: 77.5% 12.5 | 0 0 |
| Near/Far Lane Distance: 36 feet Vehicle Type Day Evenit Site Data Autos: 77.5% 12.5 | 0 0 |
| Site Data Venicle Type Day Evenil Autos: 77.5% 12.5% | 0 0 |
| Adadison Tarakas 04.00/ A.C | 30/ 0.60/ 07.430 |
| Region Medium Trucks: 84.8% 4.9 | 970 9.070 97.42 |
| Barrier Height: 0.0 feet Medium Trucks: 84.8% 4.8 | 9% 10.3% 1.849 |
| | 7% 10.8% 0.749 |
| Centerline Dist. to Barrier: 44.0 feet Noise Source Elevations (in feet) | |
| Centerline Dist. to Observer: 44.0 feet Autos: 0.000 | |
| Barrier Distance to Observer: 0.0 feet Medium Trucks: 2.297 | |
| Observer Height (Above Pad): 5.0 feet | Adjustment: 0.0 |
| Pad Elevation: 0.0 feet Heavy Trucks: 8.004 Grade | Aujustinent. 0.0 |
| Road Elevation: 0.0 feet Lane Equivalent Distance (in feet) | |
| Road Grade: 0.0% Autos: 40.460 | |
| Left View: -90.0 degrees Medium Trucks: 40.241 | |
| Right View: 90.0 degrees Heavy Trucks: 40.262 | |
| FHWA Noise Model Calculations | |
| VehicleType REMEL Traffic Flow Distance Finite Road Fresnel Barrier | Atten Berm Atten |
| Autos: 66.51 -2.03 1.28 -1.20 -4.61 | 0.000 0.00 |
| Medium Trucks: 77.72 -19.27 1.31 -1.20 -4.87 | 0.000 0.00 |
| Heavy Trucks: 82.99 -23.22 1.31 -1.20 -5.50 | 0.000 0.00 |
| Unmitigated Noise Levels (without Topo and barrier attenuation) | |
| VehicleType Leq Peak Hour Leq Day Leq Evening Leq Night Ldn | CNEL |
| | 63.5 64 |
| | 57.6 57. |
| | 59.0 59. 65.6 66. |
| | 00.0 |
| Centerline Distance to Noise Contour (in feet) 70 dBA 65 dBA 60 dBA | 55 dBA |
| | 103 22 |
| | 111 23 |

| | | | | | | | | | | _ | |
|-------------------------|----------------|----------------|-------|-----------|----------|-------------------|----------|------------|-------------|-----------|---------|
| | o: Opening Ye | ear | | | | | | | ngton Busi | iness Pa | r |
| Road Nam Road Segmer | e: Jurupa Av. | | | | | Job Ni | ımber: | 12991 | | | |
| | | | | | | | | | | | |
| SITE : | SPECIFIC IN | IPUT DATA | | | Site Cor | ditions (| | | L INPUTS | 5 | |
| | T # - (A -14). | 7 500 | | | nie oon | unions (| | Autos: | 15 | | |
| Average Daily | . , | 7,530 vehicl | es | | | -6: T | | | 15 15 | | |
| | Percentage: | 10.00% | | | | dium Tru | | , | 15 | | |
| | our Volume: | 753 vehicle | es | | HE | avy Truc | KS (3+ A | ixies): | 15 | | |
| | hicle Speed: | 40 mph | | ١ | /ehicle | Wix | | | | | |
| Near/Far Lai | ne Distance: | 48 feet | | | Veh | icleType | | Day | Evening | Night | Daily |
| Site Data | | | | | | Α | utos: | 77.5% | 12.9% | 9.6% | 97.42% |
| Bar | rier Heiaht: | 0.0 feet | | | М | edium Tr | ucks: | 84.8% | 4.9% | 10.3% | 1.84% |
| Barrier Type (0-W | | 0.0 | | | | Heavy Tr | ucks: | 86.5% | 2.7% | 10.8% | 0.74% |
| Centerline Dis | . , | 52.0 feet | | | /-: O | | | - /:- #- | -41 | | |
| Centerline Dist. | to Observer: | 52.0 feet | | - | voise S | ource Ele | | | et) | | |
| Barrier Distance | to Observer: | 0.0 feet | | | 14 | Autos m Trucks | | 000 297 | | | |
| Observer Height (| Above Pad): | 5.0 feet | | | | | | 297 204 | Crada Ad | i ratmant | . 0 0 |
| Pa | ad Elevation: | 0.0 feet | | | Heat | y Trucks | : 8.0 | JU4 | Grade Adj | ustrient | 0.0 |
| Roa | ad Elevation: | 0.0 feet | | L | ane Eq | uivalent | Distanc | e (in t | eet) | | |
| F | Road Grade: | 0.0% | | | | Autos | : 46. | 400 | | | |
| | Left View: | -90.0 degre | es | | Mediu | m Trucks | : 46. | 209 | | | |
| | Right View: | 90.0 degre | es | | Hear | y Trucks | 46. | 228 | | | |
| FHWA Noise Mode | el Calculation | s | | | | | | | | | |
| VehicleType | REMEL | Traffic Flow | Dis | stance | Finite | Road | Fresn | el | Barrier Att | en Ber | m Atten |
| Autos: | 66.51 | -2.67 | | 0.38 | 3 | -1.20 | | -4.66 | 0.0 | 000 | 0.00 |
| Medium Trucks: | 77.72 | -19.91 | | 0.41 | I | -1.20 | | -4.87 | 0.0 | 000 | 0.00 |
| Heavy Trucks: | 82.99 | -23.87 | | 0.41 | I | -1.20 | | -5.41 | 0.0 | 000 | 0.00 |
| Unmitigated Noise | Levels (with | out Topo and | barri | er atteni | uation) | | | | | | |
| | Leq Peak Hou | | | Leq Ev | | Leq I | | | Ldn | | NEL |
| Autos: | 63 | | 61.1 | | 59.4 | | 53.3 | | 61.9 | | 62. |
| Medium Trucks: | 57 | | 55.5 | | 49.1 | | 47.6 | | 56.1 | | 56. |
| Heavy Trucks: | 58 | | 56.9 | | 47.9 | | 49.1 | | 57.5 | | 57. |
| Vehicle Noise: | 65 | .0 | 63.3 | | 60.0 | | 55.5 | <u> </u> | 64.0 |) | 64. |
| Centerline Distance | e to Noise Co | ontour (in fee | t) | | | | | | | T =- | /D.4 |
| | | | | 70 d | IBA | 65 0 | IBA | 6 | 0 dBA | 55 | dBA |
| | | | | | | | | | | | |
| | | _ | Ldn: | | 21 22 | | 45 48 | | 96 103 | | 208 |

Wednesday, March 10, 2021

| | FHV | WA-RD-77-108 | HIGHV | VAY N | OISE PI | REDICT | ION MODEL | | |
|---|--|---|---------|--------|----------|----------|--|---------------------|---------------------------|
| | o: Opening Ye e: Sierra Av. t: n/o Santa A | | | | | | Name: Blooi lumber: 1299 | mington Busine 1 | ss Par |
| SITE S | PECIFIC IN | IPUT DATA | | | | | | EL INPUTS | |
| Highway Data | | | | S | ite Con | ditions | (Hard = 10, 3 | Soft = 15) | |
| Average Daily 1 Peak Hour I Peak Ho | . , | 29,827 vehicle 10.00% 2,983 vehicle | | | | | Auto ucks (2 Axles cks (3+ Axles |): 15 | |
| | icle Speed: | 50 mph | | ν | ehicle l | Mix | | | |
| Near/Far Lan | e Distance: | 76 feet | | F | | icleType | Dav | Evening N | light Daily |
| Site Data | rier Height: | 0.0 feet | | | | | Autos: 77.5 | % 12.9% | 9.6% 97.43% 0.3% 1.83% |
| Barrier Type (0-Wa | | 0.0 leet | | | - | Heavy T | rucks: 86.5 | % 2.7% 1 | 0.8% 0.74% |
| Centerline Dis | . , | 60.0 feet | | | laica Sa | urco E | levations (in | foot) | |
| Centerline Dist. t | o Observer: | 60.0 feet | | ^ | oise sc | Auto | | reet) | |
| Barrier Distance t | o Observer: | 0.0 feet | | | | | 0.000 | | |
| Observer Height (A | Above Pad): | 5.0 feet | | | | m Truck | o | Grade Adjus | tmont: 0.0 |
| Pa | d Elevation: | 0.0 feet | | | Heav | /y Truck | s: 8.004 | Grade Adjus | imeni. 0.0 |
| Roa | d Elevation: | 0.0 feet | | L | ane Eq | uivalen | t Distance (ii | r feet) | |
| F | Road Grade: | 0.0% | | | | Auto | s: 46.701 | | |
| | Left View: | -90.0 degree | es | | Mediu | m Truck | s: 46.511 | | |
| | Right View: | 90.0 degree | es | | Heav | y Truck | s: 46.530 | | |
| FHWA Noise Mode | l Calculation | s | | | | | | | |
| VehicleType | REMEL | Traffic Flow | Dista | nce | Finite | Road | Fresnel | Barrier Atten | Berm Atten |
| Autos: | 70.20 | 2.34 | | 0.34 | | -1.20 | -4.6 | 9 0.000 | 0.000 |
| Medium Trucks: | 81.00 | -14.93 | | 0.37 | | -1.20 | -4.8 | 0.000 | 0.000 |
| Heavy Trucks: | 85.38 | -18.88 | | 0.37 | | -1.20 | -5.3 | 4 0.000 | 0.000 |
| Unmitigated Noise | | | barrier | attenı | ıation) | | | | |
| | Leq Peak Hοι | | | .eq Ev | | | Night | Ldn | CNEL |
| Autos: | 71 | | 69.8 | | 68.0 | | 62.0 | 70.6 | 71.2 |
| Medium Trucks: | 65 | | 63.7 | | 57.4 | | 55.8 | 64.3 | 64.5 |
| Heavy Trucks: | 65 | | 64.2 | | 55.2 | | 56.5 | 64.8 | 64.9 |
| Vehicle Noise: | 73 | 3.4 | 71.6 | | 68.6 | | 63.8 | 72.3 | 72.8 |
| Centerline Distance | e to Noise Co | ontour (in feet, |) | | | | | | |
| | | | L | 70 d | | 65 | dBA | 60 dBA | 55 dBA |
| | | | Ldn: | | 86 | | 185 | 399 | 860 |
| | | Ci | NEL: | | 92 | | 199 | 429 | 924 |

| | HWA-RD-77-10 | 8 HIGI | N YAWH | NOISE PI | REDICT | ION MO | DEL | | | |
|--|--|------------------------------|--------|--|----------|--------------------------|----------|------------------------------|-----------------------|--------------------------|
| Scenario: Opening Road Name: Cedar Av Road Segment: n/o Santa | | | | | | Name: umber: | | ington Bus | iness Pa | ır |
| SITE SPECIFIC | INPUT DATA | | | | | | | L INPUT | s | |
| Highway Data | | | | Site Con | ditions | (Hard = | 10, Sc | oft = 15) | | |
| Average Daily Traffic (Adt): | 23,611 vehic | les | | | | | Autos: | 15 | | |
| Peak Hour Percentage: | 10.00% | | | Me | dium Tri | ucks (2 i | Axles): | 15 | | |
| Peak Hour Volume: | 2,361 vehicle | es | | He | avy Truc | cks (3+) | Axles): | 15 | | |
| Vehicle Speed: | 45 mph | | | Vehicle | Wix | | | | | |
| Near/Far Lane Distance: | 48 feet | | F | Veh | icleType | | Day | Evening | Night | Daily |
| Site Data | | | | | - | Autos: | 77.5% | 12.9% | 9.6% | 97.129 |
| Barrier Height: | 0.0 feet | | | М | edium Ti | rucks: | 84.8% | 4.9% | 10.3% | 1.919 |
| Barrier Type (0-Wall, 1-Berm): | | | | 1 | Heavy Ti | rucks: | 86.5% | 2.7% | 10.8% | 0.979 |
| Centerline Dist. to Barrier: | 52.0 feet | | | Noise So | ource El | evation | s (in fe | eet) | | |
| Centerline Dist. to Observer: | 52.0 feet | | | | Auto | | 000 | | | |
| Barrier Distance to Observer: | 0.0 feet | | | Mediu | m Truck | | 297 | | | |
| Observer Height (Above Pad): | 5.0 feet | | | | y Truck | | 004 | Grade Ad | liustment | 0.0 |
| Pad Elevation: | | | | | | | | | , | |
| Road Elevation: | 0.0 feet | | | Lane Eq | | | _ • | feet) | | |
| Road Grade: | | | | | Auto: | | 400 | | | |
| Left View: | -90.0 degre | ees | | | m Truck | | 209 | | | |
| Right View: | 90.0 degre | ees | | Heav | y Truck | s: 46 | 228 | | | |
| FHWA Noise Model Calculation | | | | | | | | | | |
| VehicleType REMEL | Traffic Flow | | stance | | Road | Fresi | _ | Barrier Att | | m Atten |
| Autos: 68.4 | | | 0.3 | | -1.20 | | -4.66 | | 000 | 0.00 |
| Medium Trucks: 79.4 | | - | 0.4 | | -1.20 | | -4.87 | | 000 | 0.00 |
| | 5 -18.23 | 3 | 0.4 | 1 | -1.20 | | -5.41 | 0.0 | 000 | 0.00 |
| Heavy Trucks: 84.2 | | | | | | | | | | |
| Unmitigated Noise Levels (with | | | | | 10~ | Night | | l dn | | NEI |
| Unmitigated Noise Levels (with VehicleType Leq Peak H | our Leq Da | iy . | | vening | Leq | Night | 7 | Ldn 69 ' | | NEL 69 |
| Unmitigated Noise Levels (win VehicleType Leq Peak H Autos: | our Leq Da 39.4 | 9y 67.5 | | vening 65.7 | | 59. | | 68.3 | 3 | 68. |
| Unmitigated Noise Levels (win VehicleType Leq Peak H Autos: (Medium Trucks: | our Leq Da 69.4 63.4 | 67.5 61.9 | | vening 65.7 55.5 | | 59. 54. |) | 68.0 62.4 | 3 4 | 68. 62. |
| Unmitigated Noise Levels (with VehicleType Leq Peak House Autos: Medium Trucks: Heavy Trucks: | our Leq Da 39.4 | 9y 67.5 | | vening 65.7 | | 59. |) | 68.3 | 3 4 4 | 68. 62. 64. |
| Unmitigated Noise Levels (with VehicleType Leq Peak House Autos: Medium Trucks: Heavy Trucks: | Dur Leq Da 69.4 63.4 65.2 71.5 | 67.5 61.9 63.8 69.8 | | vening 65.7 55.5 54.8 | | 59. 54. 56. |) | 68.3 62.4 64.4 | 3 4 4 | 68. 62. 64. |
| Unmitigated Noise Levels (wii VehicleType Leq Peak H Autos: Medium Trucks: Heavy Trucks: Vehicle Noise: | Dur Leq Da 69.4 63.4 65.2 71.5 | 67.5 61.9 63.8 69.8 | Leg E | vening 65.7 55.5 54.8 | | 59. 54. 56. |) | 68.3 62.4 64.4 | 3 4 4 5 | 68. 62. 64. 71. |
| Unmitigated Noise Levels (wii VehicleType Leq Peak H Autos: Medium Trucks: Heavy Trucks: Vehicle Noise: | Dur Leq Da 69.4 63.4 65.2 71.5 | 67.5 61.9 63.8 69.8 | Leg E | vening 65.7 55.5 54.8 66.4 | | 59. 54. 56. 62. | 6 | 68.3 62.4 64.4 70.5 | 3 4 4 5 5 | 68. 62. 64. 71. |

| | FH | WA-RD-77-108 | HIGHW | AY N | DISE P | REDICT | ION MOI | DEL | | | |
|---------------------|---|---|--------------|--------|----------|---------------------|---------------------------|------------|--------------|---------|----------|
| | o: Opening Y e: Cedar Av. nt: n/o 7th St. | ear + SP | | | | | t Name: E lumber: 1 | | ington Busi | ness Pa | ar |
| SITE | SPECIFIC II | NPUT DATA | | | | | | | L INPUTS | 3 | |
| Highway Data | | | | S | ite Cor | nditions | (Hard = | 10, S | oft = 15) | | |
| Peak H | Percentage: our Volume: | 24,411 vehicle 10.00% 2,441 vehicle | | | | | rucks (2 A rucks (3+ A | | 15 | | |
| | hicle Speed: | 45 mph | | V | ehicle. | Mix | | | | | |
| Near/Far Lar | ne Distance: | 48 feet | | | Veh | icleType | 9 . | Day | Evening | Night | Daily |
| Site Data | | | | | | | Autos: | 77.5% | 12.9% | 9.6% | 97.33% |
| Bar | rier Height: | 0.0 feet | | | М | ledium 7 | rucks: | 84.8% | 4.9% | 10.3% | 1.86% |
| Barrier Type (0-W | | 0.0 | | | | Heavy 7 | rucks: | 86.5% | 2.7% | 10.8% | 0.81% |
| Centerline Dis | | 52.0 feet | | | laiaa C | | levations | lin f | n n et l | | |
| Centerline Dist. | to Observer: | 52.0 feet | | /4 | oise s | Auto | | | eei) | | |
| Barrier Distance | to Observer: | 0.0 feet | | | M = -17. | m Truck | 0.0 | 000 297 | | | |
| Observer Height (| Above Pad): | 5.0 feet | | | | m Truck vy Truck | | 004 | Grade Adj | uetman | t- 0.0 |
| Pa | d Elevation: | 0.0 feet | | | пеа | vy Truck | 15. 0.0 | JU4 | Orace Auj | ustinen | . 0.0 |
| Roa | d Elevation: | 0.0 feet | | L | ane Eq | uivalen | t Distanc | e (in | feet) | | |
| F | Road Grade: | 0.0% | | | | Auto | s: 46.4 | 400 | | | |
| | Left View: | -90.0 degre | es | | Mediu | m Truck | s: 46.2 | 209 | | | |
| | Right View: | 90.0 degre | es | | Hea | vy Truck | (s: 46.2 | 228 | | | |
| FHWA Noise Mode | el Calculation | s | | | | | | | | | |
| VehicleType | REMEL | Traffic Flow | Dista | nce | Finite | Road | Fresn | el | Barrier Atte | en Be | rm Atten |
| Autos: | 68.46 | 1.92 | | 0.38 | | -1.20 | | -4.66 | 0.0 | 00 | 0.00 |
| Medium Trucks: | 79.45 | -15.27 | | 0.41 | | -1.20 | | -4.87 | 0.0 | 00 | 0.00 |
| Heavy Trucks: | 84.25 | -18.85 | | 0.41 | | -1.20 | | -5.41 | 0.0 | 00 | 0.00 |
| Unmitigated Noise | | | barrier a | attenu | ıation) | | | | | | |
| | Leq Peak Ho | | | eq Ev | | | Night | | Ldn | | NEL |
| Autos: | | 9.6 | 67.7 | | 65.9 | | 59.8 | | 68.5 | | 69. |
| Medium Trucks: | 63 | 3.4 | 61.9 | | 55.5 | | 54.0 | | 62.4 | | 62. |
| Heavy Trucks: | | 1.6 | 63.2 | | 54.1 | | 55.4 | | 63.8 | | 63.9 |
| Vehicle Noise: | | 1.5 | 69.8 | | 66.5 | i | 61.9 | 1 | 70.5 | i | 70.9 |
| Centerline Distance | e to Noise C | ontour (in feet |) | 70 dl | DA. | C. | dBA | | 60 dBA | | dBA |
| | | | Ldn: | 7 U al | 56 | 00 | 120 | <u> </u> | 260 | 55 | 559 |
| | | _ | Lan: NEL: | | 60 | | 120 | | 278 | | 599 |
| | | C | VEL. | | 00 | | 129 | | 2/8 | | 598 |

| Connario | Opening Ye | or + SD | | | | Project | Name: | Noomi | ngton Bus | inocc Do | r |
|---------------------------------|---------------|-----------------|----------|-----------|---------------------------|-------------------|-----------------|--------------------|---------------------|-----------|------------|
| | : Santa Ana A | | | | | | umher: | | ngton bus | illess ra | |
| Road Segment | | | | | | 300 14 | urriber. | 12331 | | | |
| | PECIFIC IN | | | Т | | N | OISE N | IODE | L INPUT | s | |
| Highway Data | | | | | Site Con | ditions | (Hard = | 10, Sc | ft = 15) | | |
| Average Daily Ti | raffic (Adt): | 8,897 vehicle | S | | | | , | Autos: | 15 | | |
| Peak Hour P | ercentage: | 10.00% | | | Me | dium Tru | icks (2 A | (xles): | 15 | | |
| Peak Ho | ur Volume: | 890 vehicles | | | He | avy Truc | ks (3+ A | xles): | 15 | | |
| Vehi | icle Speed: | 40 mph | | + | Vehicle I | Aiv | | | | | |
| Near/Far Lane | e Distance: | 36 feet | | ŀ | | cleType | | Dav | Evening | Night | Dailv |
| Site Data | | | | 7 | Autos: 77.5% 12.9% 9.6% 9 | | | | | | 97.47 |
| Rarri | ier Height: | 0.0 feet | | \exists | Me | dium Ti | ucks: | 84.8% | 4.9% | 10.3% | 1.819 |
| Barrier Type (0-Wal | - | 0.0 | | | F | łeavy Ti | ucks: | 86.5% | 2.7% | 10.8% | 0.73 |
| Centerline Dist. | | 44.0 feet | | ŀ | M-: 0- | | | | -41 | | |
| Centerline Dist. to | Observer: | 44.0 feet | | ľ | Noise So | Auto: | | 5 (<i>III T</i> E | et) | | |
| Barrier Distance to | Observer: | 0.0 feet | | | Modium | Auto: n Truck: | | 97 | | | |
| Observer Height (A | bove Pad): | 5.0 feet | | | | y Truck: | | 004 | Grade Ad | iustmant | . 0 0 |
| Pad | Elevation: | 0.0 feet | | L | ricav | y ITUCK | 5. 0.0 | JU-4 | Orace Au | ustricit | . 0.0 |
| Road | l Elevation: | 0.0 feet | | 1 | Lane Equ | ıivalent | Distanc | e (in t | eet) | | |
| Ro | oad Grade: | 0.0% | | | | Autos | 3: 40.4 | 460 | | | |
| | Left View: | -90.0 degree | S | | | n Truck | | | | | |
| F | Right View: | 90.0 degree | S | | Heav | y Truck: | s: 40.2 | 262 | | | |
| FHWA Noise Model | Calculations | : | | | | | | | | | |
| VehicleType | REMEL | Traffic Flow | Distar | се | Finite | Road | Fresn | el | Barrier Att | en Ber | m Atter |
| Autos: | 66.51 | -1.95 | | 1.2 | 8 | -1.20 | | -4.61 | 0.0 | 000 | 0.00 |
| Medium Trucks: | 77.72 | -19.27 | | 1.3 | | -1.20 | | -4.87 | | 000 | 0.00 |
| Heavy Trucks: | 82.99 | -23.22 | | 1.3 | 1 | -1.20 | | -5.50 | 0.0 | 000 | 0.00 |
| Unmitigated Noise I | Levels (witho | out Topo and b | arrier a | tten | uation) | | | | | | |
| VehicleType L | eq Peak Hou | r Leq Day | Le | eq E | vening | Leq | Night | | Ldn | | NEL |
| Autos: | 64. | | 2.7 | | 61.0 | | 54.9 | | 63.5 | | 64 |
| Medium Trucks: | 58. | | 7.1 | | 50.7 | | 49.1 | | 57.6 | - | 57 |
| | 59. | - | 8.5 | | 49.4 | | 50.7 | | 59.0 | | 59 |
| Heavy Trucks: | | | 4.9 | | 61.6 | | 57.1 | | 65.6 | 3 | 66 |
| Heavy Trucks: Vehicle Noise: | 66. | 0 0 | | | | | | | | | |
| Vehicle Noise: | | | | | | | | | | | |
| Vehicle Noise: | | ntour (in feet) | L | 70 (| dBA | 65 (| dBA | 6 | i0 dBA | | dBA |
| | | ntour (in feet) | .dn: | 70 (| dBA 22 24 | 65 (| dBA 48 52 | 6 | 0 dBA 104 111 | | dBA 224 |

Wednesday, March 10, 2021

| FH\ | WA-RD-77-108 HI | GHWAY | NOISE PI | REDICT | ION MO | DDEL | | | |
|--|--|-----------|-----------|----------------------|------------------|----------|-------------|----------|----------|
| Scenario: Opening Ye Road Name: Jurupa Av. Road Segment: e/o Linden | | | | | Name: lumber: | | nington Bus | iness Pa | ar |
| SITE SPECIFIC IN | IPUT DATA | | | | | | EL INPUT | S | |
| Highway Data | | | Site Con | ditions | (Hard : | = 10, S | oft = 15) | | |
| Average Daily Traffic (Adt): Peak Hour Percentage: Peak Hour Volume: | 7,744 vehicles 10.00% 774 vehicles | | | dium Tri avy Truc | | / | : 15 | | |
| Vehicle Speed: | 40 mph | | Vehicle I | Mix | | | | | |
| Near/Far Lane Distance: | 48 feet | | | icleType | | Dav | Evening | Night | Dailv |
| Site Data | | | | | Autos: | 77.59 | - | 9.6% | . , |
| Barrier Height: | 0.0 feet | | М | edium Ti | rucks: | 84.89 | 6 4.9% | 10.3% | 2.07% |
| Barrier Type (0-Wall, 1-Berm): | 0.0 | | ı | Heavy T | rucks: | 86.59 | 6 2.7% | 10.8% | 1.53% |
| Centerline Dist. to Barrier: | 52.0 feet | | Noise So | ource El | levatio | ns (in i | feet) | | |
| Centerline Dist. to Observer: | 52.0 feet | | | Auto | s: O | .000 | | | |
| Barrier Distance to Observer: | 0.0 feet | | Mediu | m Truck | | .297 | | | |
| Observer Height (Above Pad): | 5.0 feet | | Heav | y Truck | s A | .004 | Grade Ad | iustmen | t: 0.0 |
| Pad Elevation: | 0.0 feet | | | | | | | | |
| Road Elevation: | 0.0 feet | | Lane Eq | uivalent | t Distar | ıce (in | feet) | | |
| Road Grade: | 0.0% | | | Auto | s: 46 | .400 | | | |
| Left View: | -90.0 degrees | | Mediu | m Truck | s: 46 | .209 | | | |
| Right View: | 90.0 degrees | | Heav | y Truck | s: 46 | .228 | | | |
| FHWA Noise Model Calculation | s | | | | | | | | |
| VehicleType REMEL | Traffic Flow | Distance | Finite | Road | Fres | nel | Barrier Att | en Be | rm Atten |
| Autos: 66.51 | -2.60 | 0.3 | 38 | -1.20 | | -4.66 | 0.0 | 000 | 0.000 |
| Medium Trucks: 77.72 | -19.27 | 0.4 | 41 | -1.20 | | -4.87 | 0.0 | 000 | 0.000 |
| Heavy Trucks: 82.99 | -20.58 | 0.4 | 41 | -1.20 | | -5.41 | 0.0 | 000 | 0.000 |
| Unmitigated Noise Levels (with | | rier atte | nuation) | | | | | | |
| VehicleType Leq Peak Hou | | | vening | Leq | Night | | Ldn | | NEL |
| Autos: 63 | | _ | 59.4 | | 53 | | 62.0 | | 62.6 |
| | 7.7 56. | | 49.8 | | 48 | _ | 56. | | 56.9 |
| Heavy Trucks: 61 | | | 51.2 | | 52 | | 60.8 | - | 60.9 |
| Vehicle Noise: 66 | | 4 | 60.4 | | 56 | .6 | 65. | 1 | 65.5 |
| Centerline Distance to Noise Co | ontour (in feet) | 70 | dBA | 65 | dBA | | 60 dBA | 51 | 5 dBA |
| | Ldr | | 25 | 00 | 5 | | 114 | | 246 |
| | CNEL | | 26 | | 5 | | 121 | | 260 |

Wednesday, March 10, 2021 Wednesday, March 10, 2021

| | FH | WA-RD-77-108 | HIGH | WAY N | IOISE PI | REDICT | ION MO | DDEL | | | |
|--------------------|---|-----------------|--------|----------|---------------------------------|----------|------------------|-----------|-------------|----------|----------|
| Road Nam | io: General Pl ne: Sierra Av. nt: n/o Santa / | | | | | | Name: lumber: | | ington Bus | iness Pa | ar |
| | SPECIFIC II | IPUT DATA | | | | | | | L INPUT | s | |
| Highway Data | | | | | Site Con | ditions | (Hard = | = 10, Sc | | | |
| Average Daily | . , | 48,580 vehicle | es | | | | | Autos: | | | |
| | Percentage: | 10.00% | | | | dium Tri | , | | | | |
| | lour Volume: | 4,858 vehicle | S | | He | avy Truc | cks (3+ | Axles): | 15 | | |
| | hicle Speed: | 50 mph | | 1 | Vehicle I | Mix | | | | | |
| Near/Far La | ne Distance: | 76 feet | | | VehicleType Day Evening Night D | | | | | | |
| Site Data | | | | | | - | Autos: | 77.5% | 12.9% | 9.6% | 97.42% |
| Ba | rrier Height: | 0.0 feet | | | М | edium Ti | rucks: | 84.8% | 4.9% | 10.3% | 1.84% |
| Barrier Type (0-W | | 0.0 | | | - 1 | Heavy Ti | rucks: | 86.5% | 2.7% | 10.8% | 0.74% |
| Centerline Di | st. to Barrier: | 60.0 feet | | - | Noise So | urco El | lovation | ne (in fi | not) | | |
| Centerline Dist. | to Observer: | 60.0 feet | | H' | V0/36 30 | Auto: | | .000 | eei) | | |
| Barrier Distance | to Observer: | 0.0 feet | | | Modiu | m Truck | | .000 | | | |
| Observer Height (| Above Pad): | 5.0 feet | | | | y Truck | | .004 | Grade Ad | iuetman | |
| P | ad Elevation: | 0.0 feet | | | rical | y ITUCK | 3. 0 | .004 | Orace Au | Justinen | . 0.0 |
| Ro | ad Elevation: | 0.0 feet | | 1 | Lane Eq | uivalent | Distar | ice (in | feet) | | |
| | Road Grade: | 0.0% | | | | Auto | s: 46 | .701 | | | |
| | Left View: | -90.0 degree | es | | Mediu | m Truck | s: 46 | .511 | | | |
| | Right View: | 90.0 degree | es | | Heav | y Truck | s: 46 | .530 | | | |
| FHWA Noise Mod | el Calculation | s | | | | | | | | | |
| VehicleType | REMEL | Traffic Flow | Dis | tance | Finite | Road | Fres | nel | Barrier Att | en Be | rm Atten |
| Autos: | 70.20 | | | 0.3 | | -1.20 | | -4.69 | | 000 | 0.000 |
| Medium Trucks: | 81.00 | | | 0.3 | 7 | -1.20 | | -4.88 | 0.0 | 000 | 0.000 |
| Heavy Trucks: | 85.38 | -16.74 | | 0.3 | 7 | -1.20 | | -5.34 | 0.0 | 000 | 0.000 |
| Unmitigated Noise | | | barrie | er atten | uation) | | | | | | |
| VehicleType | Leq Peak Ho | ur Leq Day | r | Leg E | vening | Leq | Night | | Ldn | С | NEL |
| Autos: | | | 71.9 | | 70.1 | | 64. | | 72. | | 73.3 |
| Medium Trucks: | | | 65.9 | | 59.5 | | 58. | - | 66.4 | - | 66.7 |
| Heavy Trucks: | | | 66.4 | | 57.3 | | 58. | - | 67.0 | | 67.1 |
| Vehicle Noise: | 75 | 5.5 | 73.8 | | 70.7 | | 65. | 9 | 74. | 5 | 74.9 |
| Centerline Distant | ce to Noise C | ontour (in feet |) | | | | | | | | |
| | | | L | 70 c | dBA | 65 | dBA | | 60 dBA | | dBA |
| | | | Ldn: | | 119 | | 25 | | 553 | | 1,192 |
| | | C | VEL: | | 128 | | 27 | 3 | 594 | | 1,280 |

| Scenario | : General Pla | an Buildout | | | | Proiec | Name. | Bloom | ington Bus | iness Pa | r |
|---------------------|----------------|----------------|------|----------|----------|----------|-------------|-----------|-------------|----------|-----------|
| Road Name | e: Cedar Av. | | | | | | | 12991 | | | |
| Road Segmen | t: n/o Santa A | Ana Av. | | | | | | | | | |
| | PECIFIC IN | IPUT DATA | | | | | | | L INPUT | S | |
| Highway Data | | | | S | ite Cor | ditions | (Hard | | | | |
| Average Daily 1 | raffic (Adt): | 26,700 vehic | les | | | | | Autos: | 15 | | |
| Peak Hour F | Percentage: | 10.00% | | | | edium Tr | | | | | |
| Peak Ho | our Volume: | 2,670 vehicl | es | | He | eavy Tru | cks (3+ | Axles): | 15 | | |
| | icle Speed: | 45 mph | | ν | ehicle | Mix | | | | | |
| Near/Far Lan | e Distance: | 48 feet | | | Veh | icleType | • | Day | Evening | Night | Daily |
| Site Data | | | | | | | Autos: | 77.5% | 12.9% | 9.6% | 97.429 |
| Barı | rier Height: | 0.0 feet | | | М | edium T | rucks: | 84.8% | 4.9% | 10.3% | 1.849 |
| Barrier Type (0-Wa | | 0.0 | | | | Heavy T | rucks: | 86.5% | 2.7% | 10.8% | 0.749 |
| Centerline Dis | t. to Barrier: | 52.0 feet | | | laisa Si | ource E | lovatio | ne (in fa | not) | | |
| Centerline Dist. t | o Observer: | 52.0 feet | | | 0/36 0 | Auto | | 0.000 | .01) | | |
| Barrier Distance to | o Observer: | 0.0 feet | | | Modiu | m Truck | | 2.297 | | | |
| Observer Height (A | Above Pad): | 5.0 feet | | | | vy Truck | | 3.004 | Grade Ad | iustment | . 0 0 |
| Pa | d Elevation: | 0.0 feet | | | | • | | | | Juotimom | . 0.0 |
| Roa | d Elevation: | 0.0 feet | | L | ane Eq | uivalen | t Dista | nce (in i | feet) | | |
| R | Road Grade: | 0.0% | | | | Auto | | 5.400 | | | |
| | Left View: | -90.0 degre | ees | | | m Truck | | 3.209 | | | |
| | Right View: | 90.0 degre | ees | | Hea | vy Truck | s: 46 | 5.228 | | | |
| FHWA Noise Mode | l Calculation | | | <u>'</u> | | | | | | | |
| VehicleType | REMEL | Traffic Flow | | stance | | Road | Fres | | Barrier Att | | m Atten |
| Autos: | 68.46 | | | 0.38 | | -1.20 | | -4.66 | | 000 | 0.00 |
| Medium Trucks: | 79.45 | | _ | 0.41 | | -1.20 | | -4.87 | | 000 | 0.00 |
| Heavy Trucks: | 84.25 | -18.8 | В | 0.41 | | -1.20 | | -5.41 | 0.0 | 000 | 0.00 |
| Unmitigated Noise | | | | | | | | | | _ | |
| | Leq Peak Hou | | , | Leq Ev | | | Night | | Ldn | | NEL |
| Autos: | 70 | | 68.1 | | 66.3 | | 60 | | 68.9 | - | 69. |
| Medium Trucks: | 63 | | 62.2 | | 55.9 | | 54 | | 62.8 | - | 63. |
| Heavy Trucks: | 64 | | 63.2 | | 54.1 | | 55 | | 63.7 | | 63. 71 |
| Vehicle Noise: | 71 | | 70.1 | | 66.9 | | 62 | .2 | 70.8 | 3 | 71. |
| Centerline Distance | e to Noise Co | ontour (in fee | et) | 70 d | DΛ | e e | dBA | - | i0 dBA | FE | dBA |
| | | | | 1 U U | | 1 00 | <i>uD</i> A | 1 0 | O UDA | 1 33 | UDA |
| | | | Ldn: | | 59 | | 12 | 6 | 272 | | 586 |

| Barrier Height: 0.0 feet | | FH\ | VA-RD-77-108 | HIGH | WAY N | OISE P | REDICTI | ON MO | DEL | | | |
|--|--------------------|-----------------|------------------|------|--------|---------|----------|---------|-----------|-------------|----------|---------|
| Average Daily Traffic (Adt): | Road Nam | ne: Cedar Av. | an Buildout | | | | | | | ngton Bus | iness Pa | r |
| Average Daily Traffic (Adt): | | SPECIFIC IN | IPUT DATA | | | | | | | | S | |
| Peak Hour Percentage: 10.00% Peak Hour Volume: 4.415 vehicles Peak Hour Volume: 5.2.0 feet Peak Elevation: 0.0 feet Peak El | Highway Data | | | | S | ite Cor | ditions | (Hard = | = 10, So | ft = 15) | | |
| Peak Hour Volume: Vehicle Speed: 4,415 vehicles Vehicle Mix | Average Daily | Traffic (Adt): | 44,150 vehicle | es | | | | | Autos: | 15 | | |
| Vehicle Speed: 45 mph 48 feet Vehicle Mix Vehicle Type Day Evening Night Daily Daily Night Nig | Peak Hour | Percentage: | 10.00% | | | Me | dium Tru | ıcks (2 | Axles): | 15 | | |
| Near/Far Lane Distance: 48 feet Vehicle Type Day Evening Night Daily | Peak H | lour Volume: | 4,415 vehicles | 3 | | He | avy Truc | cks (3+ | Axles): | 15 | | |
| Near/Far Lane Distance: 48 feet VehicleType Day Evening Night Daily Slite Data Autos: 77.5% 12.9% 9.6% 97.42 Medium Trucks: 84.8% 4.9% 10.3% 10.3% 13.4 Medium Trucks: 84.8% 4.9% 10.3% 10.3% 13.4 Medium Trucks: 86.5% 2.7% 10.8% 0.74 Medium Trucks: 86.6% 2.7% 10.8% 0.74 Medium Trucks: 86.86 4.50 0.38 -1.20 -4.6% 0.000 0.00 Medium Trucks: 86.26 -16.70 0.41 -1.20 -4.6% 0.000 0.00 Medium Trucks: 84.25 -16.70 0.41 -1.20 -5.41 0.000 0.00 0.00 Medium Trucks: 84.25 -16.70 0.41 -1.20 -5.41 0.000 0.00 0.00 Medium Trucks: 84.25 -16.70 0.41 -1.20 -5.41 0.000 0.00 0.00 Medium Trucks: 84.25 -16.70 0.41 -1.20 -5.41 0.000 0.00 0.00 0.00 Medium Trucks: 84.25 -16.70 0.41 -1.20 -5.41 0.000 0. | Ve | hicle Speed: | 45 mph | | ν | ehicle | Mix | | | | | |
| Barrier Height: 0.0 feet | Near/Far La | ne Distance: | 48 feet | | ř | | | | Day | Evening | Night | Daily |
| Barrier Trype (0-Well, 1-Berm): 0.0 Centerline Dist. to Diserver: 52.0 feet Centerline Dist. to Observer: 52.0 feet Barrier Distance to Observer: 52.0 feet Autos: 0.000 Medium Trucks: 46.400 Medium Trucks: 46.228 Moise Model Calculations | Site Data | | | | | | A | Autos: | 77.5% | 12.9% | 9.6% | 97.429 |
| | Bai | rrier Heiaht: | 0.0 feet | | | М | edium Tr | ucks: | 84.8% | 4.9% | 10.3% | 1.849 |
| Noise Model Calculations Noise Model Calculations Noise Model Calculations | | - | 0.0 | | | | Heavy Tr | ucks: | 86.5% | 2.7% | 10.8% | 0.749 |
| Autos: 0.000 Autos: 0.000 Barrier Alten Barrier Distance to Observer: 0.0 feet Autos: 0.000 Medium Trucks: 2.297 Heavy Trucks: 8.004 Grade Adjustment: 0.0 Autos: 46.209 Heavy Trucks: 46.209 Heavy Trucks: 46.208 Heavy Tr | Centerline Di | st. to Barrier: | 52.0 feet | | | loise S | nurce Fl | evation | ns (in fe | et) | | |
| Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Continue Continu | Centerline Dist. | to Observer: | 52.0 feet | | | 0.00 | | | - ' | | | |
| Diserver Height (Above Pad): | Barrier Distance | to Observer: | 0.0 feet | | | Mediu | | | | | | |
| Pad Elevation: 0.0 feet | Observer Height (| (Above Pad): | 5.0 feet | | | | | | | Grade Ad | iustment | : 0.0 |
| Road Grade: 0.0% | Pa | ad Elevation: | 0.0 feet | | | | | | | | , | |
| Left View: | Roa | ad Elevation: | 0.0 feet | | L | ane Eq | uivalent | Distan | ice (in f | feet) | | |
| Right View: 90.0 degrees Heavy Trucks: 46.228 | | Road Grade: | 0.0% | | | | | | | | | |
| | | Left View: | -90.0 degree | es | | | | | .209 | | | |
| VehicleType | | Right View: | 90.0 degree | es | | Hea | y Trucks | s: 46 | .228 | | | |
| Autos: 68.46 4.50 0.38 -1.20 -4.66 0.000 0.00 Medium Trucks: 79.45 -12.74 0.41 -1.20 -4.67 0.000 0.00 Heavy Trucks: 84.25 -16.70 0.41 -1.20 -5.41 0.000 0.00 Umitigated Noise Levels (without Topo and barrier attenuation) Vehicle Type Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL Autos: 72.1 70.2 68.5 62.4 71.0 71. Medium Trucks: 65.9 64.4 58.1 56.5 65.0 65.9 66. Heavy Trucks: 66.8 66.3 56.3 57.6 65.9 66. Vehicle Noise: 74.0 72.2 69.1 64.4 73.0 73. Centerline Distance to Noise Contour (in feet) To dBA 65 dBA 60 dBA 55 dBA Ldn: 82 176 380 811 | FHWA Noise Mode | el Calculation | s | | | | | | | | | |
| Medium Trucks: 79.45 | VehicleType | REMEL | Traffic Flow | Dis | tance | Finite | Road | Fres | nel | Barrier Att | en Ber | m Atten |
| Heavy Trucks: 84.25 -16.70 0.41 -1.20 -5.41 0.000 0.000 | | 68.46 | 4.50 | | 0.38 | | | | -4.66 | 0.0 | 000 | 0.00 |
| Unmitigated Noise Levels (without Topo and barrier attenuation) VehicleType Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL | Medium Trucks: | 79.45 | -12.74 | | 0.41 | | | | -4.87 | 0.0 | 000 | 0.00 |
| VehicleType Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL Autos: 72.1 70.2 68.5 62.4 71.0 71.0 Medium Trucks: 66.9 64.4 58.1 56.5 65.0 65. Heavy Trucks: 66.8 65.3 56.3 57.6 65.9 66. Vehicle Noise: 74.0 72.2 69.1 64.4 73.0 73. Centerline Distance to Noise Contour (in feet) Ldn: 82 176 380 81 | Heavy Trucks: | 84.25 | -16.70 | | 0.41 | | -1.20 | | -5.41 | 0.0 | 000 | 0.00 |
| Autos: 72.1 70.2 68.5 62.4 71.0 71. Medium Trucks: 65.9 64.4 58.1 56.5 65.0 65. Heavy Trucks: 66.8 65.3 56.3 57.6 65.9 66. Vehicle Noise: 74.0 72.2 69.1 64.4 73.0 73. Centerline Distance to Noise Contour (in feet) TO dBA 65 dBA 60 dBA 55 dBA Ldn: 82 176 380 81 | - | • | | | | | | | | | | |
| Medium Trucks: 65.9 64.4 58.1 56.5 65.0 65. Heavy Trucks: 66.8 65.3 56.3 57.6 65.9 66. Vehicle Noise: 74.0 72.2 69.1 64.4 73.0 73. Centerline Distance to Noise Contour (in feet) Ldn: 82 176 380 81 | | | | | Leq Ev | | | | | | | |
| Heavy Trucks: 66.8 66.3 56.3 57.6 65.9 66. Vehicle Noise: 74.0 72.2 69.1 64.4 73.0 73. Centerline Distance to Noise Contour (in feet) | | | | | | | | | | | - | |
| Vehicle Noise: 74.0 72.2 69.1 64.4 73.0 73. Centerline Distance to Noise Contour (in feet) 70 dBA 65 dBA 60 dBA 55 dBA Ldn: 82 176 380 81 | | | | | | | | | - | | - | |
| Centerline Distance to Noise Contour (in feet) 70 dBA 65 dBA 60 dBA 55 dBA Ldn: 82 176 380 81 | | | | | | | | | - | | - | |
| 70 dBA 65 dBA 60 dBA 55 dBA Ldn: 82 176 380 81: | | | | | | 05.1 | | 04. | 4 | 75.0 | , | 73. |
| Ldn: 82 176 380 819 | Centerline Distanc | ce to Noise Co | ontour (in feet) | · | 70 d | RA | 65 (| dRA. | - 6 | in dBA | 55 | dBA |
| 02 170 000 011 | | | | Ldn: | . 0 0 | | | | | | | 819 |
| | | | | | | | | | - | | | 878 |

Wednesday, March 10, 2021

| | FHW | /A-RD-77-108 | HIGHWA | AY NO | DISE PE | REDICTI | ON M | ODEL | | | | |
|--|---|--|--------------|--------------|--|-------------------------------|----------|-------------------------|--------------|------------|----------------|--|
| Road Nam | o: General Pla e: Santa Ana A nt: e/o Sierra A | ۸v. | | | | | | Bloom 12991 | ington Bus | iness Pa | ar | |
| SITE S | SPECIFIC IN | PUT DATA | | - | ita Can | N ditions | | | EL INPUT | s | | |
| Average Daily Peak Hour | Percentage: | 20,520 vehicle 10.00% 2.052 vehicles | | 31 | Ме | dium Tru | icks (2 | Autos Axles) | : 15 : 15 | | | |
| Vel Near/Far Lar | hicle Speed: ne Distance: | 40 mph 36 feet | | Ve | ehicle I | Vlix icleType | | Day | Evening | Night | Daily | |
| Site Data | | | | ┢ | ven | | utos: | 77.59 | - | 9.6% | | |
| Barrier Type (0-W | . , | 0.0 feet 0.0 | | | | edium Tr Heavy Tr | | 84.89 86.59 | | | | |
| Centerline Dist. I Barrier Distance I | Centerline Dist. to Barrier: 44.0 feet Centerline Dist. to Observer: 44.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet | | | | Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.297 Heavy Trucks: 8.004 Grade Adjustment: 0.0 | | | | | | | |
| | , | | | | | uivalent | | 3.004 nce (in | | justinen | . 0.0 | |
| F | Road Grade: Left View: Right View: | 0.0% -90.0 degree 90.0 degree | | | | Autos m Trucks y Trucks | : 40 | 0.460 0.241 0.262 | | | | |
| FHWA Noise Mode | | 1 | | | | | | | | | | |
| VehicleType Autos: Medium Trucks: | 66.51 77.72 | 1.68 -15.56 | Distan | 1.28 1.31 | Finite | -1.20 -1.20 | Fres | -4.61 -4.87 | 0. | 000 000 | 0.000 0.000 | |
| Heavy Trucks: Unmitigated Noise | 82.99 | -19.51 | | 1.31 | ation) | -1.20 | | -5.50 | 0. | 000 | 0.000 | |
| | Leg Peak Hou | | | eq Eve | | Leg I | Vight | | Ldn | С | NEL | |
| Autos: | 68. | | 6.4 | | 64.6 | | 58 | | 67. | | 67.8 | |
| Medium Trucks: Heavy Trucks: | | | | | 54.4 53.1 | | 52 54 | | 61. 62. | - | 61.5 62.9 | |
| Vehicle Noise: | 70. | | 88.6 | | 65.3 | | 60 | .7 | 69. | 3 | 69.7 | |
| Centerline Distanc | e to Noise Co | ntour (in feet) | | 70 dE | BA . | 65 (| iBA | 1 | 60 dBA | 55 | i dBA | |
| | | _ | .dn: IEL: | - 32 | 39 42 | | 8 9 | 5 | 182 | 2 | 393 421 | |

Wednesday, March 10, 2021
Wednesday, March 10, 2021

| | FH\ | WA-RD-77-108 | HIGH | - YAWI | NOISE PI | REDICT | ION MO | DEL | | | |
|---------------------------------|---|-----------------|--------------|------------------------|---|----------------|-------------------|----------------|--------------|----------|-----------|
| Road Nar | rio: General Pla ne: Jurupa Av. ent: e/o Linden | | | | | | Name: I umber: | | ington Busi | ness P | ar |
| | SPECIFIC IN | IPUT DATA | | | | | | | L INPUT | S | |
| Highway Data | | | | | Site Con | ditions | (Hard = | 10, So | oft = 15) | | |
| Average Daily | Traffic (Adt): | 13,600 vehicle | es | | | | , | Autos: | 15 | | |
| Peak Hour | r Percentage: | 10.00% | | | Me | dium Tr | ucks (2 A | (xles | 15 | | |
| Peak I | Hour Volume: | 1,360 vehicle | S | | He | avy Tru | cks (3+ A | (xles | 15 | | |
| Ve | ehicle Speed: | 40 mph | | ŀ | Vehicle | Mix | | | | | |
| Near/Far La | ane Distance: | 48 feet | | - | | icleType | | Day | Evening | Night | Daily |
| Site Data | | | | | | | Autos: | 77.5% | 12.9% | 9.69 | 6 97.42% |
| Ba | rrier Heiaht: | 0.0 feet | | | М | edium T | rucks: | 84.8% | 4.9% | 10.39 | 6 1.84% |
| Barrier Type (0-V | | 0.0 | | | 1 | Heavy T | rucks: | 86.5% | 2.7% | 10.89 | 6 0.74% |
| Centerline D | ist. to Barrier: | 52.0 feet | | ŀ | Noise So | nurce Fi | evation | s (in fe | eet) | | |
| Centerline Dist. | to Observer: | 52.0 feet | | ŀ | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Auto | | 000 | | | |
| Barrier Distance | to Observer: | 0.0 feet | | | Mediu | m Truck | | 297 | | | |
| Observer Height | (Above Pad): | 5.0 feet | | | | vy Truck | | 004 | Grade Adj | iustmer | t: 0.0 |
| P | Pad Elevation: | 0.0 feet | | L | | | | | | | |
| Ro | ad Elevation: | 0.0 feet | | | Lane Eq | uivalent | | | feet) | | |
| | Road Grade: | 0.0% | | | | Auto | | | | | |
| | Left View: | -90.0 degree | es | | | m Truck | | | | | |
| | Right View: | 90.0 degree | es | | Heav | y Truck | s: 46. | 228 | | | |
| FHWA Noise Mod | | | | | | | | | | | |
| VehicleType | REMEL | Traffic Flow | Dis | stance | | Road | Fresn | _ | Barrier Atte | _ | erm Atten |
| Autos: | | | | 0.3 | | -1.20 | | -4.66 | 0.0 | | 0.000 |
| Medium Trucks: | | | | 0.4 | | -1.20 -1.20 | | -4.87 -5.41 | 0.0 | | 0.000 |
| Heavy Trucks: | | | | | | -1.20 | | -5.41 | 0.0 | 100 | 0.000 |
| Unmitigated Nois | | | | | | | | | | | |
| VehicleType | Leq Peak Hou | .,., | _ | Leq E | vening | _ | Night | | Ldn | _ | CNEL |
| Autos: | | | 63.7 | | 61.9 | | 55.9 | | 64.5 | | 65.1 |
| Medium Trucks: | | | 58.1 | | 51.7 | | 50.2 | | 58.6 | | 58.9 |
| Heavy Trucks: Vehicle Noise: | |).9 '.6 | 59.5 65.9 | | 50.4 62.6 | | 51.7 58.0 | | 60.1 66.6 | | 60.2 |
| | | | | | 02.0 | | 50.0 | | 00.0 | <u>'</u> | 07.0 |
| Centerline Distan | ce to Noise Co | ontour (in feet | 1 | 70 | dBA | 65 | dBA | - | i0 dBA | | 5 dBA |
| | | | Ldn: | 70 | и <i>Б</i> А 31 | 00 | 06A 66 | | 143 | . 3 | 308 |
| | | | VEL: | 31 66 143 33 71 153 | | 330 | | | | | |
| | | | 33 /1 153 | | | 330 | | | | | |

| FI | WA-RD-77-10 | 8 HIGH | WAY N | OISE P | REDICT | ION M | ODEL | | | |
|---|-----------------|--------|----------|---------|----------|---------|----------------|-------------|-----------|--------------|
| Scenario: General F Road Name: Sierra Av. Road Segment: n/o Santa | | SP | | | | | Bloom 12991 | nington Bus | siness Pa | ar |
| SITE SPECIFIC I | NPUT DATA | | | | | | | L INPUT | s | |
| Highway Data | | | S | ite Con | ditions | (Hard | | oft = 15) | | |
| Average Daily Traffic (Adt): | 48,747 vehic | les | | | | | Autos | | | |
| Peak Hour Percentage: | 10.00% | | | | dium Tr | | | | | |
| Peak Hour Volume: | , | es | | He | avy Tru | cks (3+ | Axles) | : 15 | | |
| Vehicle Speed: | 50 mph | | V | ehicle | Mix | | | | | |
| Near/Far Lane Distance: | 76 feet | | — | Veh | icleType | | Day | Evening | Night | Daily |
| Site Data | | | | | | Autos: | 77.59 | 6 12.9% | 9.6% | 97.43% |
| Barrier Height: | 0.0 feet | | | М | edium T | rucks: | 84.89 | 6 4.9% | 10.3% | 1.83% |
| Barrier Type (0-Wall, 1-Berm): | 0.0 | | | 1 | Heavy T | rucks: | 86.59 | 6 2.7% | 10.8% | 0.74% |
| Centerline Dist. to Barrier: | 60.0 feet | | ٨ | loise S | ource E | levatio | ns (in t | eet) | | |
| Centerline Dist. to Observer: | 60.0 feet | | | | Auto | s: (| 0.000 | , | | |
| Barrier Distance to Observer: | 0.0 feet | | | Mediu | m Truck | | 2.297 | | | |
| Observer Height (Above Pad): | 5.0 feet | | | Heav | y Truck | s: 8 | 3.004 | Grade Ad | ljustmeni | t: 0.0 |
| Pad Elevation: | 0.0 feet | | | | • | | | | • | |
| Road Elevation: | 0.0 feet | | L | ane Eq | | | _ • | feet) | | |
| Road Grade: | 0.0% | | | | Auto | | 3.701 | | | |
| Left View: | -90.0 degre | | | | m Truck | | 3.511 | | | |
| Right View: | 90.0 degre | ees | | Heav | y Truck | s: 4 | 5.530 | | | |
| FHWA Noise Model Calculation | | | | | | | | | | |
| VehicleType REMEL | Traffic Flow | | tance | | Road | Fre | | Barrier At | | rm Atten |
| Autos: 70.2 | | | 0.34 | | -1.20 | | -4.69 | | 000 | 0.000 |
| Medium Trucks: 81.0 | | - | 0.37 | | -1.20 | | -4.88 | | 000 | 0.000 |
| Heavy Trucks: 85.3 | | | 0.37 | | -1.20 | | -5.34 | 0. | 000 | 0.000 |
| Unmitigated Noise Levels (wit | | | | | | | _ | | | |
| VehicleType Leq Peak Ho | | - | Leq Ev | | | Night | | Ldn | | NEL |
| | 3.8 | 71.9 | | 70.2 | | 64 | | 72. | | 73.0 |
| | 7.4 | 65.9 | | 59.5 | | 58 | | 66. | | 66.7 |
| | 7.8 | 66.4 | | 57.3 | | 58 | | 67. | | 67.1 74.9 |
| | 5.5 | 73.8 | | 70.7 | | 65 | .9 | 74. | 5 | 74.9 |
| Centerline Distance to Noise C | contour (in fee | t) | 70 d | 'BA | 65 | dBA | | 60 dBA | 55 | dBA |
| | | | , o u | | 50 | | | | | |
| | | Ldn: | | 119 | | 25 | 7 | 554 | 1 | 1.194 |

| | | WA-RD-77-108 | | IWAT N | OIJE P | | | | | | |
|--------------------|----------------|---------------------------|--------|-----------|------------|---------------------|------------------|-----------|-------------|-----------|----------|
| | e: Cedar Av. | an Buildout + S Ana Av | SP | | | | Name: lumber: | | ngton Bus | iness Pa | r |
| | | NPUT DATA | | | | | IOISE | MODE | L INPUT | s | |
| Highway Data | | | | 5 | Site Cor | ditions | | | | | |
| Average Daily | Traffic (Adt): | 26,871 vehicl | es | | | | | Autos: | 15 | | |
| Peak Hour | Percentage: | 10.00% | | | Me | dium Tr | ucks (2 | Axles): | 15 | | |
| Peak H | our Volume: | 2,687 vehicle | :S | | He | avy Tru | cks (3+ | Axles): | 15 | | |
| Vei | hicle Speed: | 45 mph | | 1 | /ehicle | Miv | | | | | |
| Near/Far Lar | ne Distance: | 48 feet | | | | icleType | | Dav | Evening | Night | Dailv |
| Site Data | | | | | | | Autos: | 77.5% | | | 97.159 |
| | rier Height: | 0.0 feet | | | М | edium T | rucks: | 84.8% | | 10.3% | |
| Barrier Type (0-W | - | 0.0 | | | | Heavy T | rucks: | 86.5% | 2.7% | 10.8% | 0.949 |
| Centerline Dis | . , | 52.0 feet | | | /-: O | F | 4: | C E- | -41 | | |
| Centerline Dist. | to Observer: | 52.0 feet | | | voise S | ource El Auto | | - 1 | et) | | |
| Barrier Distance | to Observer: | 0.0 feet | | | 14 | Auto m Truck | | .000 | | | |
| Observer Height (| Above Pad): | 5.0 feet | | | | m Truck vy Truck | | .004 | Grade Ad | ivetment | . 0.0 |
| Pa | ad Elevation: | 0.0 feet | | | пеа | ry Truck | s. o | .004 | Grade Au, | justinent | . 0.0 |
| Roa | ad Elevation: | 0.0 feet | | L | ane Eq | uivalen | t Distar | ice (in i | eet) | | |
| F | Road Grade: | 0.0% | | | | Auto | s: 46 | .400 | | | |
| | Left View: | -90.0 degre | es | | Mediu | m Truck | s: 46 | .209 | | | |
| | Right View: | 90.0 degre | es | | Hea | y Truck | s: 46 | .228 | | | |
| FHWA Noise Mode | el Calculation | ıs | | | | | | | | | |
| VehicleType | REMEL | Traffic Flow | Dis | stance | Finite | Road | Fres | nel | Barrier Att | en Ber | m Atten |
| Autos: | 68.46 | 2.33 | | 0.38 | 3 | -1.20 | | -4.66 | 0.0 | 000 | 0.00 |
| Medium Trucks: | 79.45 | | | 0.41 | | -1.20 | | -4.87 | | 000 | 0.00 |
| Heavy Trucks: | 84.25 | -17.80 | | 0.41 | | -1.20 | | -5.41 | 0.0 | 000 | 0.00 |
| Unmitigated Noise | Levels (with | out Topo and | barrie | er atteni | uation) | | | | | | |
| | Leq Peak Ho | | | Leq Ev | | | Night | | Ldn | | NEL |
| Autos: | | 0.0 | 68.1 | | 66.3 | | 60. | - | 68.9 | - | 69 |
| Medium Trucks: | | 3.9 | 62.4 | | 56.0 | | 54. | | 63.0 | - | 63 |
| Heavy Trucks: | | 5.7 | 64.2 | | 55.2 | | 56. | | 64.8 | - | 64 |
| Vehicle Noise: | 72 | 2.1 | 70.3 | | 67.0 | | 62. | .5 | 71.0 | ט | 71 |
| Centerline Distanc | e to Noise C | ontour (in feet | t) | 70 d | ID A | 65 | dBA | | i0 dBA | | dBA |
| | | | Ldn: | 7U a | | 05 | | | | | |
| | | _ | NEL: | | 61 65 | | 13: | _ | 283 303 | | 61 65 |
| | | C | IVLL. | | 65 141 303 | | | 00 | | | |
| | | | | | | | | | | | |

Wednesday, March 10, 2021

| | FH\ | WA-RD-77-108 | HIGH | WAY N | OISE PI | REDICTI | ON M | DDEL | | | | |
|---|--|---|--------|---------|--|------------------------|---------|-------------------------|-------------------|------------------------|----------|--|
| Road Na | ario: General Pla me: Cedar Av. ent: n/o 7th St. | an Buildout + S | P | | | | | Bloom 12991 | ington Bus | iness Pa | ır | |
| SITE Highway Data | SPECIFIC IN | IPUT DATA | | , | Site Con | N | | | L INPUT | s | | |
| Average Dail Peak Hou Peak | y Traffic (Adt): ur Percentage: Hour Volume: 'ehicle Speed: | 44,271 vehicles 10.00% 4,427 vehicles 45 mph | | | Ме | edium Tru eavy Truc | icks (2 | Autos Axles) | 15 | | | |
| Near/Far L | .ane Distance: | 48 feet | | H | | icleType | | Dav | Evening | Night | Dailv | |
| Site Data B Barrier Type (0- | arrier Height: | 0.0 feet 0.0 | | | М | | | 77.5% 84.8% 86.5% | 6 12.9% 6 4.9% | 9.6% 10.3% 10.8% | 1.85% | |
| | Dist to Barrier: | 52.0 feet | | ١. | | | | | | | | |
| Centerline Dis Barrier Distanc Observer Heigh | Centerline Dist. to Observer: 52.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet | | | | Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.297 Heavy Trucks: 8.004 Grade Adjustment: 0.0 | | | | | | | |
| | oad Elevation: | 0.0 feet | | 1 | ane Ea | uivalent | Distai | nce (in | feet) | | | |
| | Road Grade: | 0.0% | | F | | Autos | | 3.400 | , | | | |
| | Left View: Right View: | -90.0 degree | | | | m Trucks vy Trucks | | 6.209 6.228 | | | | |
| FHWA Noise Mo | del Calculation | s | | | | | | | | | | |
| VehicleType | REMEL | Traffic Flow | Dist | tance | Finite | Road | Fres | snel | Barrier Att | en Be | rm Atten | |
| Autos | 68.46 | 4.51 | | 0.38 | 3 | -1.20 | | -4.66 | 0. | 000 | 0.000 | |
| Medium Trucks | 3: 79.45 | -12.70 | | 0.4 | I | -1.20 | | -4.87 | 0. | 000 | 0.000 | |
| Heavy Trucks | 84.25 | -16.45 | | 0.4 | I | -1.20 | | -5.41 | 0. | 000 | 0.000 | |
| Unmitigated Noi | se Levels (with | out Topo and | barrie | r atten | uation) | | | | | | | |
| VehicleType | Leq Peak Hou | ır Leq Day | | Leq Ev | rening | Leq | Night | | Ldn | | NEL | |
| Autos | s: 72 | 1.2 | 70.3 | | 68.5 | | 62 | .4 | 71. | 1 | 71.7 | |
| Medium Trucks | s: 66 | 6.0 | 64.4 | | 58.1 | | 56 | .5 | 65. | 0 | 65.2 | |
| Heavy Trucks | | | 65.6 | | 56.6 | | 57 | | 66. | | 66.3 | |
| Vehicle Noise | 2: 74 | 1.0 | 72.3 | | 69.1 | | 64 | .5 | 73. | 0 | 73.5 | |
| Centerline Dista | nce to Noise Co | ontour (in feet) | | | | | ·D.4 | | 00 104 | 1 | | |
| | | | L | 70 c | | 65 (| dBA | | 60 dBA | | dBA | |
| | | | Ldn: | | 83 | | 17 | - | 384 | | 827 | |
| | | CI | VEL: | | 89 | | 19 | 7 | 411 | | 886 | |

Wednesday, March 10, 2021 Wednesday, March 10, 2021

| | FH | WA-RD-77-108 | HIGH | MAY N | NOISE PI | REDICT | ION MOI | DEL | | | |
|-------------------|----------------|------------------|--------|---------|-----------|-----------|-----------|----------|--------------|----------|---------|
| Scenar | io: General Pl | an Buildout + S | Р | | | Project | Name: E | Bloom | ington Busi | ness Pa | r |
| | e: Santa Ana | | | | | Job N | lumber: 1 | 2991 | | | |
| Road Segme | nt: e/o Sierra | Av. | | | | | | | | | |
| | SPECIFIC II | NPUT DATA | | | | | | | L INPUTS | 3 | |
| Highway Data | | | | | Site Con | ditions | (Hard = | 10, S | oft = 15) | | |
| Average Daily | Traffic (Adt): | 20,687 vehicle | es | | | | A | Autos: | 15 | | |
| Peak Hour | Percentage: | 10.00% | | | Me | dium Tr | ucks (2 A | xles): | 15 | | |
| Peak F | lour Volume: | 2,069 vehicles | s | | He | avy Tru | cks (3+ A | xles): | 15 | | |
| Ve | hicle Speed: | 40 mph | | - | Vehicle I | Wix | | | | | |
| Near/Far La | ne Distance: | 36 feet | | F | | icleTvpe | | Dav | Evenina | Night | Dailv |
| Site Data | | | | | | ,, . | | 77.5% | | 9.6% | |
| Pa | rrier Height: | 0.0 feet | | | М | edium T | rucks: | 84.8% | 4.9% | 10.3% | 1.83% |
| Barrier Type (0-W | | 0.0 1661 | | | F | Heavy T | rucks: | 86.5% | 2.7% | 10.8% | 0.73% |
| Centerline Di | | 44.0 feet | | L | | | | | | | |
| Centerline Dist | | 44.0 feet | | Ľ | Noise So | | | <u>'</u> | eet) | | |
| Barrier Distance | | 0.0 feet | | | | Auto | | 000 | | | |
| Observer Height | | 5.0 feet | | | | m Truck | | 297 | | | |
| - | ad Elevation: | 0.0 feet | | | Heav | y Truck | s: 8.0 | 004 | Grade Adj | ustment. | 0.0 |
| | ad Elevation: | 0.0 feet | | - 17 | Lane Eq | uivalen | Distanc | e (in | feet) | | |
| | Road Grade: | 0.0% | | F | | Auto | | _ • | , | | |
| | Left View: | -90.0 degree | es | | Mediu | m Truck | s: 40.2 | 241 | | | |
| | Right View: | 90.0 degree | es | | Heav | y Truck | s: 40.2 | 262 | | | |
| FHWA Noise Mod | al Calculation | ie . | | | | | | | | | |
| VehicleType | REMEL | Traffic Flow | Dist | ance | Finite | Road | Fresn | e/ | Barrier Atte | en Ber | m Atten |
| Autos: | 66.51 | | | 1.2 | | -1.20 | | 4.61 | 0.0 | _ | 0.000 |
| Medium Trucks: | | | | 1.3 | 1 | -1.20 | | -4.87 | 0.0 | 00 | 0.000 |
| Heavy Trucks: | 82.99 | -19.51 | | 1.3 | 1 | -1.20 | | -5.50 | 0.0 | 00 | 0.000 |
| Unmitigated Nois | e Levels (with | out Topo and | barrie | r atten | uation) | | | | | | |
| VehicleType | Leg Peak Ho | ur Leq Day | , | Leq E | vening | Leq | Night | | Ldn | CI | VEL |
| Autos: | 68 | 3.3 | 66.4 | | 64.6 | | 58.6 | | 67.2 | ! | 67.8 |
| Medium Trucks: | 62 | 2.3 | 60.8 | | 54.4 | | 52.9 | | 61.3 | | 61.5 |
| Heavy Trucks: | 63 | 3.6 | 62.2 | | 53.1 | | 54.4 | | 62.7 | | 62.9 |
| Vehicle Noise: | 70 | 0.3 | 68.6 | | 65.3 | | 60.8 | | 69.3 | | 69.7 |
| Centerline Distan | ce to Noise C | ontour (in feet, |) | | | | | | | | |
| | | | | 70 d | dBA | 65 | dBA | (| 60 dBA | 55 | dBA |
| | | | Ldn: | | 39 | | 85 | | 183 | | 395 |
| | CNEL: | | | | | 42 91 196 | | | 422 | | |

| | FHW | /A-RD-77-108 | HIGHW | AY NO | ISE PR | EDICTION | N MODEL | | | |
|---|--|--|-----------|--------|----------|----------------------------------|----------------------------|-------------------|---------------|-----------------|
| Road Nam | io: General Pla ne: Jurupa Av. nt: e/o Linden A | | 0 | | | | ame: Bloc aber: 1299 | mington Bus 91 | iness Pa | ır |
| SITE | SPECIFIC IN | PUT DATA | | | | NO | ISE MOI | EL INPUT | s | |
| Highway Data | | | | Si | te Cond | ditions (H | ard = 10, | Soft = 15) | | |
| Peak H | Percentage: | 13,814 vehicle 10.00% 1,381 vehicles 40 mph | | | Hea | dium Truck avy Trucks | | s): 15 | | |
| Near/Far La | ne Distance: | 48 feet | | Ve | hicle N | | 0- | - I i I | A 15 1- 4 | D-#- |
| Site Data | | - | | + | veni | cleType Aut | Day os: 77.5 | | Night 9.6% | Daily 96.84% |
| | rrier Height: | 0.0 feet | | | | dium Truc leavy Truc | ks: 84.8 | 3% 4.9% | 10.3% | 1.97% |
| *, , | . , | 52.0 feet | | - | | | | | | |
| Centerline Dist. Barrier Distance Observer Height (| Centerline Dist. to Observer: 52.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet | | | | | Autos: n Trucks: y Trucks: | 0.000 2.297 8.004 | Grade Ad | ljustmeni | t: 0.0 |
| Ro | ad Elevation: | 0.0 feet | | La | ne Equ | ivalent Di | istance (i | n feet) | | |
| ı | Road Grade: Left View: Right View: | 0.0% -90.0 degree 90.0 degree | | | | Autos: n Trucks: y Trucks: | 46.400 46.209 46.228 | | | |
| FHWA Noise Mod | el Calculations | | | | | | | | | |
| VehicleType | REMEL | Traffic Flow | Dista | | Finite I | | Fresnel | Barrier At | | rm Atten |
| Autos: Medium Trucks: | 66.51 77.72 | -0.06 -16.98 | | 0.38 | | -1.20 -1.20 | -4.6 -4.8 | - | 000 | 0.000 |
| Heavy Trucks: | | -10.98 | | 0.41 | | -1.20 | -4.d -5.4 | | 000 | 0.000 |
| Unmitigated Noise | | ut Topo and | harrier : | attenu | ation) | | | | | |
| VehicleType | Leg Peak Hou | | | eq Eve | | Leg Nig | aht | Ldn | С | NEL |
| Autos: | 65. | 6 | 33.7 | | 62.0 | | 55.9 | 64. | 5 | 65. |
| Medium Trucks: | 59. | 9 | 58.4 | | 52.1 | | 50.5 | 59. | 0 | 59.2 |
| Heavy Trucks: | 63. | 0 (| 31.6 | | 52.6 | | 53.8 | 62. | 2 | 62.3 |
| Vehicle Noise: | 68. | 2 | 66.5 | | 62.8 | | 58.7 | 67. | 2 | 67.6 |
| Centerline Distant | ce to Noise Co | ntour (in feet) | | | | | | | | |
| | | | | 70 dE | IA . | 65 dB. | A | 60 dBA | 55 | dBA |
| | | | _dn: | | 34 | | 73 | 158 | | 340 |
| | | CI | IEL: | | 36 | | 78 | 168 | 3 | 362 |

APPENDIX 9.1:

CADNAA OYD1 OPERATIONAL NOISE MODEL INPUTS



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12991 - Bloomington Business Park Specific Plan- PLD CadnaA Noise Prediction Model: 12991_04_PLD.cna

Date: 03.05.21 Analyst: S. Shami

Calculation Configuration

| Parameter | |
|--------------------------------------|--------------------------------|
| | Value |
| General | |
| Country | (user defined) |
| Max. Error (dB) | 0.00 |
| Max. Search Radius (#(Unit,LEN)) | 2000.01 |
| Min. Dist Src to Rcvr | 0.00 |
| Partition | |
| Raster Factor | 0.50 |
| Max. Length of Section (#(Unit,LEN)) | 999.99 |
| Min. Length of Section (#(Unit,LEN)) | 1.01 |
| Min. Length of Section (%) | 0.00 |
| Proj. Line Sources | On |
| Proj. Area Sources | On |
| Ref. Time | |
| Reference Time Day (min) | 960.00 |
| Reference Time Night (min) | 480.00 |
| Daytime Penalty (dB) | 0.00 |
| Recr. Time Penalty (dB) | 5.00 |
| Night-time Penalty (dB) | 10.00 |
| DTM | |
| Standard Height (m) | 0.00 |
| Model of Terrain | Triangulation |
| Reflection | |
| max. Order of Reflection | 2 |
| Search Radius Src | 100.00 |
| Search Radius Rcvr | 100.00 |
| Max. Distance Source - Rcvr | 1000.00 1000.00 |
| Min. Distance Rvcr - Reflector | 1.00 1.00 |
| Min. Distance Source - Reflector | 0.10 |
| Industrial (ISO 9613) | |
| Lateral Diffraction | some Obj |
| Obst. within Area Src do not shield | On |
| Screening | Incl. Ground Att. over Barrier |
| | Dz with limit (20/25) |
| Barrier Coefficients C1,2,3 | 3.0 20.0 0.0 |
| Temperature (#(Unit,TEMP)) | 10 |
| rel. Humidity (%) | 70 |
| Ground Absorption G | 0.50 |
| Wind Speed for Dir. (#(Unit,SPEED)) | 3.0 |
| Roads (RLS-90) | |
| Strictly acc. to RLS-90 | |
| Railways (FTA/FRA) | |
| Aircraft (???) | |
| Strictly acc. to AzB | |

Receiver Noise Levels

| Name | M. | ID | | Level Lr | | Lir | nit. Val | ue | | Land | Use | Height | | Co | oordinates | |
|------------|----|------|-------|----------|-------|-------|----------|-------|------|------|------------|--------|---|------------|------------|------|
| | | | Day | Night | CNEL | Day | Night | CNEL | Туре | Auto | Noise Type | | | Х | Υ | Z |
| | | | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | | | | (ft) | | (ft) | (ft) | (ft) |
| RECEIVERS2 | | P-R1 | 52.2 | 50.4 | 56.9 | 71.0 | 67.0 | 0.0 | | | | 5.00 | а | 6210315.30 | 2329356.30 | 5.00 |
| RECEIVERS2 | | P-R2 | 53.1 | 51.2 | 57.8 | 71.0 | 67.0 | 0.0 | | | | 5.00 | а | 6210352.20 | 2328738.90 | 5.00 |
| RECEIVERS2 | | P-R3 | 53.1 | 52.1 | 58.5 | 61.0 | 56.0 | 0.0 | | | | 5.00 | а | 6211824.55 | 2328029.48 | 5.00 |
| RECEIVERS2 | | P-R4 | 55.8 | 54.8 | 61.2 | 61.0 | 56.0 | 0.0 | | | | 5.00 | а | 6211848.72 | 2327816.63 | 5.00 |

Point Source(s)

| Name | M. | ID | R | esult. PW | 'L | | Lw/L | i | Op | erating Ti | me | K0 | Height | : | Co | oordinates | |
|-------------|----|---------|-------|-----------|-------|------|-------|-------|--------|------------|--------|------|--------|---|------------|------------|-------|
| | | | Day | Evening | Night | Туре | Value | norm. | Day | Special | Night | | | | Х | Υ | Z |
| | | | (dBA) | (dBA) | (dBA) | | | dB(A) | (min) | (min) | (min) | (dB) | (ft) | | (ft) | (ft) | (ft) |
| POINTSOURCE | | TRASH09 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6212879.38 | 2327243.78 | 5.00 |
| POINTSOURCE | | TRASH08 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6211680.64 | 2328871.05 | 5.00 |
| POINTSOURCE | | TRASH07 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6210655.01 | 2327527.69 | 5.00 |
| POINTSOURCE | | TRASH06 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6211660.24 | 2327529.28 | 5.00 |
| POINTSOURCE | | TRASH05 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6211956.59 | 2327246.73 | 5.00 |
| POINTSOURCE | | TRASH04 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6209730.16 | 2329617.33 | 5.00 |
| POINTSOURCE | | TRASH03 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | a | 6209773.80 | 2328680.24 | 5.00 |
| POINTSOURCE | | TRASH02 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6210630.00 | 2328870.64 | 5.00 |
| POINTSOURCE | | TRASH01 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6208937.52 | 2328936.59 | 5.00 |
| POINTSOURCE | | AC01 | 88.9 | 88.9 | 88.9 | Lw | 88.9 | | 585.00 | 0.00 | 252.00 | 0.0 | 5.00 | g | 6210838.28 | 2329053.23 | 50.00 |
| POINTSOURCE | | AC02 | 88.9 | 88.9 | 88.9 | Lw | 88.9 | | 585.00 | 0.00 | 252.00 | 0.0 | 5.00 | g | 6211506.23 | 2329044.80 | 50.00 |
| POINTSOURCE | | AC03 | 88.9 | 88.9 | 88.9 | Lw | 88.9 | | 585.00 | 0.00 | 252.00 | 0.0 | 5.00 | g | 6210780.79 | 2327383.92 | 50.00 |

| Name | M. | ID | R | esult. PW | 'L | | Lw / L | i | Ope | erating T | ime | КО | Height | Т | Co | ordinates | |
|----------------------------|----|------------------|--------------|--------------|--------------|------|--------------|-------|--------|-----------|------------------|------|--------|---------------|--------------------------|--------------------------|--------------|
| | | | Day | Evening | | Туре | | norm. | Day | Special | Night | | - 0 | T | Х | Υ | Z |
| | | | (dBA) | (dBA) | (dBA) | | | dB(A) | (min) | (min) | (min) | (dB) | (ft) | | (ft) | (ft) | (ft) |
| POINTSOURCE | | AC04 | 88.9 | 88.9 | 88.9 | Lw | 88.9 | | 585.00 | 0.00 | 252.00 | 0.0 | 5.00 | g | 6211539.14 | 2327369.27 | 50.00 |
| POINTSOURCE | | AC05 | 88.9 | 88.9 | 88.9 | Lw | 88.9 | | 585.00 | 0.00 | 252.00 | 0.0 | 5.00 | g | 6211853.02 | 2327447.05 | 50.00 |
| POINTSOURCE | | AC06 | 88.9 | 88.9 | 88.9 | Lw | 88.9 | | 585.00 | 0.00 | 252.00 | 0.0 | 5.00 | g | 6212982.53 | 2327447.05 | 50.00 |
| POINTSOURCE | | AC07 | 88.9 | 88.9 | 88.9 | Lw | 88.9 | | 585.00 | 0.00 | 252.00 | 0.0 | | g | 6209665.71 | 2328574.09 | 50.00 |
| POINTSOURCE | | AC08 | 88.9 | 88.9 | 88.9 | Lw | 88.9 | | 585.00 | 0.00 | 252.00 | 0.0 | | g | 6209679.08 | 2329694.34 | 50.00 |
| POINTSOURCE | | PARK01 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | а | 6211672.01 | 2327265.99 | 5.00 |
| POINTSOURCE | | PARK02 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6211669.43 | 2327317.55 | 5.00 |
| POINTSOURCE POINTSOURCE | | PARK03 PARK04 | 87.8 87.8 | 87.8 87.8 | 87.8 87.8 | Lw | 87.8 87.8 | | 900.00 | 0.00 | 540.00 540.00 | 0.0 | | a a | 6210777.30 6210779.88 | 2328944.53 2329011.57 | 5.00 |
| POINTSOURCE | | PARK05 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6211682.33 | 2328975.47 | 5.00 |
| POINTSOURCE | | PARK06 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6211566.30 | 2328975.47 | 5.00 |
| POINTSOURCE | | PARK07 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | \rightarrow | 6210857.23 | 2329155.96 | 5.00 |
| POINTSOURCE | | PARK08 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6210669.01 | 2329155.96 | 5.00 |
| POINTSOURCE | | PARK09 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6210642.78 | 2328984.64 | 5.00 |
| POINTSOURCE | | PARK10 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | a | 6210570.70 | 2328989.78 | 5.00 |
| POINTSOURCE | | PARK11 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6209818.96 | 2329669.44 | 5.00 |
| POINTSOURCE | | PARK12 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | a | 6209757.17 | 2329672.01 | 5.00 |
| POINTSOURCE | | PARK13 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | а | 6210323.55 | 2328441.43 | 5.00 |
| POINTSOURCE | | PARK14 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6210156.21 | 2328438.85 | 5.00 |
| POINTSOURCE | | PARK15 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | а | 6210024.91 | 2328441.43 | 5.00 |
| POINTSOURCE | | PARK16 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6209875.59 | 2328441.43 | 5.00 |
| POINTSOURCE | | PARK17 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6210980.03 | 2329159.70 | 5.00 |
| POINTSOURCE POINTSOURCE | | PARK18 PARK19 | 87.8 87.8 | 87.8 87.8 | 87.8 87.8 | Lw | 87.8 87.8 | | 900.00 | 0.00 | 540.00 540.00 | 0.0 | | a a | 6210761.20 6210568.12 | 2329159.70 2329159.70 | 5.00 |
| POINTSOURCE | | PARK20 | 87.8 | 87.8 | 87.8 | LW | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6210366.12 | 2329139.70 | 5.00 |
| POINTSOURCE | | PARK21 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6210218.00 | 2329028.40 | 5.00 |
| POINTSOURCE | | PARK22 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6209211.39 | 2328662.83 | 5.00 |
| POINTSOURCE | | PARK23 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6209206.24 | 2328750.36 | 5.00 |
| POINTSOURCE | | PARK24 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | a | 6209211.39 | 2328843.04 | 5.00 |
| POINTSOURCE | | PARK25 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | a | 6209213.96 | 2328920.27 | 5.00 |
| POINTSOURCE | | PARK26 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6209216.54 | 2329051.57 | 5.00 |
| POINTSOURCE | | PARK27 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | a | 6209213.96 | 2329144.25 | 5.00 |
| POINTSOURCE | | PARK28 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6209216.54 | 2329234.36 | 5.00 |
| POINTSOURCE | | PARK29 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6209219.11 | 2329332.19 | 5.00 |
| POINTSOURCE | | PARK30 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6209224.26 | 2329424.87 | 5.00 |
| POINTSOURCE | | PARK31 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | \rightarrow | 6209221.69 | 2329556.16 | 5.00 |
| POINTSOURCE POINTSOURCE | | PARK32 PARK33 | 87.8 87.8 | 87.8 87.8 | 87.8 87.8 | Lw | 87.8 87.8 | | 900.00 | 0.00 | 540.00 540.00 | 0.0 | | a a | 6209221.69 6210811.64 | 2329682.31 2327315.51 | 5.00 5.00 |
| POINTSOURCE | | PARK34 | 87.8 | 87.8 | 87.8 | LW | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6210924.35 | 2327313.51 | 5.00 |
| POINTSOURCE | | PARK35 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6211003.65 | 2327314.01 | 5.00 |
| POINTSOURCE | | PARK36 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6211099.90 | 2327313.51 | 5.00 |
| POINTSOURCE | | PARK37 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6211264.97 | 2327311.02 | 5.00 |
| POINTSOURCE | | PARK38 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | a | 6211369.70 | 2327309.02 | 5.00 |
| POINTSOURCE | | PARK39 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | a | 6211510.34 | 2327308.02 | 5.00 |
| POINTSOURCE | | PARK40 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6210231.85 | 2329255.67 | 5.00 |
| POINTSOURCE | | PARK41 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | a | 6210347.18 | 2329183.59 | 5.00 |
| POINTSOURCE | | PARK42 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | a | 6210354.39 | 2329041.83 | 5.00 |
| POINTSOURCE | | PARK43 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | | 540.00 | 0.0 | 5.00 | \rightarrow | 6210350.78 | | 5.00 |
| POINTSOURCE | | PARK44 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | | 0.0 | 5.00 | \rightarrow | 6210246.26 | 2328849.61 | 5.00 |
| POINTSOURCE POINTSOURCE | | PARK45 PARK46 | 87.8 87.8 | 87.8 87.8 | 87.8 87.8 | Lw | 87.8 87.8 | | 900.00 | 0.00 | | 0.0 | 5.00 | \rightarrow | 6210109.31 6209937.51 | 2328853.21 2328854.41 | 5.00 |
| POINTSOURCE | | PARK46 PARK47 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | | 0.0 | 5.00 | _ | 6210283.51 | 2328580.50 | 5.00 |
| POINTSOURCE | | PARK48 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | | 0.0 | 5.00 | \rightarrow | 6210148.95 | 2328580.90 | 5.00 |
| POINTSOURCE | | PARK49 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | | 0.0 | 5.00 | - | 6210018.00 | 2328588.91 | 5.00 |
| POINTSOURCE | | PARK50 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | | 0.0 | 5.00 | a | 6209911.08 | 2328586.51 | 5.00 |
| POINTSOURCE | | PARK51 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6211885.75 | 2327772.15 | 5.00 |
| POINTSOURCE | | PARK52 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | a | 6211982.74 | 2327772.99 | 5.00 |
| POINTSOURCE | | PARK53 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | a | 6212078.88 | 2327769.62 | 5.00 |
| POINTSOURCE | | PARK54 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | | 0.0 | 5.00 | \rightarrow | 6212178.40 | 2327771.31 | 5.00 |
| POINTSOURCE | | PARK55 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | | 0.0 | 5.00 | \rightarrow | 6212282.98 | 2327770.46 | 5.00 |
| POINTSOURCE | | PARK56 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | | 0.0 | 5.00 | \rightarrow | 6212377.44 | 2327767.93 | 5.00 |
| POINTSOURCE | | PARK57 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | | 0.0 | 5.00 | _ | 6212482.02 | 2327770.46 | 5.00 |
| POINTSOURCE | | PARK58 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | | 0.0 | 5.00 | \rightarrow | 6212582.38 | 2327767.93 | 5.00 |
| POINTSOURCE | | PARK59 PARK60 | 87.8 | 87.8 87.8 | 87.8 87.8 | Lw | 87.8 87.8 | | 900.00 | 0.00 | 540.00 540.00 | 0.0 | 5.00 | \rightarrow | 6212682.74 | 2327767.09 | 5.00 |
| POINTSOURCE POINTSOURCE | | PARK60 PARK61 | 87.8 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | | 0.0 | 5.00 | \rightarrow | 6212780.57 6212882.62 | 2327767.93 2327767.09 | 5.00 |
| POINTSOURCE | | PARK62 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | | 0.0 | 5.00 | \rightarrow | 6212981.29 | 2327767.09 | 5.00 |
| . SHITISOUNCE | | | 07.0 | 37.0 | 57.5 | L#V | 07.0 | | 500.00 | 0.00 | 3-0.00 | 0.0 | 5.00 | ۳ | 5212301.23 | 2327,07.03 | 5.00 |

Line Source(s)

| | _ | -,-, | | | | | | | | | | | | | | | | | |
|------------|----|-------|-------|-----------|-------|-------|-----------|-------|--------|---------|-------|-------|------------|-------|------|---------|---------|-------|--------|
| Name | M. | ID | R | esult. PW | /L | R | esult. PW | L' | | Lw / Li | | Op | erating Ti | ime | | Moving | Pt. Src | | Height |
| | | | Day | Evening | Night | Day | Evening | Night | Туре | Value | norm. | Day | Special | Night | | Number | | Speed | |
| | | | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | | | dB(A) | (min) | (min) | (min) | Day | Evening | Night | (mph) | (ft) |
| LINESOURCE | | DWY01 | 92.4 | 77.7 | 83.4 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY02 | 96.6 | 81.9 | 87.6 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY03 | 95.7 | 81.1 | 86.8 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY04 | 92.2 | 77.6 | 83.2 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |

| Name | M. | ID | R | esult. PW | /L | R | esult. PW | L' | | Lw / Li | | Ор | erating Ti | ime | | Moving | Pt. Src | | Height |
|------------|----|-------|-------|-----------|-------|-------|-----------|-------|--------|---------|-------|-------|------------|-------|------|---------|---------|-------|--------|
| | | | Day | Evening | Night | Day | Evening | Night | Type | Value | norm. | Day | Special | Night | | Number | | Speed | |
| | | | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | | | dB(A) | (min) | (min) | (min) | Day | Evening | Night | (mph) | (ft) |
| LINESOURCE | | DWY05 | 98.1 | 83.4 | 89.1 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY06 | 90.4 | 75.8 | 81.4 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY07 | 99.0 | 84.4 | 90.0 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY08 | 89.7 | 75.1 | 80.7 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY09 | 96.4 | 81.7 | 87.4 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY10 | 89.7 | 75.1 | 80.7 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY11 | 85.6 | 71.0 | 76.6 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |

| Name | H | lei | ght | | | Coordinat | es | |
|-------------|-------|-----|------|---|------------|------------|------|--------|
| | Begin | | End | _ | х | У | z | Ground |
| | (ft) | | (ft) | | (ft) | (ft) | (ft) | (ft) |
| LINESOURCE | 8.00 | а | | | 6209796.52 | 2329585.11 | 8.00 | 0.00 |
| | | | | | 6209903.87 | 2329584.85 | 8.00 | 0.00 |
| | | | | | 6209905.07 | 2329698.98 | 8.00 | 0.00 |
| | | | | | 6209995.05 | 2329696.56 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | | 6209753.64 | 2328660.30 | 8.00 | 0.00 |
| | | | | | 6209751.30 | 2328512.02 | 8.00 | 0.00 |
| | | | | | 6210418.75 | 2328508.33 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | | 6209751.30 | 2328512.02 | 8.00 | 0.00 |
| | | | | | 6209298.38 | 2328516.83 | 8.00 | 0.00 |
| | | | | | 6209249.12 | 2328533.65 | 8.00 | 0.00 |
| | | | | | 6209219.09 | 2328566.08 | 8.00 | 0.00 |
| | | | | | 6209199.87 | 2328584.10 | 8.00 | 0.00 |
| | | | | | 6209097.69 | 2328586.49 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | | 6211736.63 | 2329095.90 | 8.00 | 0.00 |
| | | | | | 6211631.45 | 2329092.28 | 8.00 | 0.00 |
| | | | | _ | 6211627.78 | 2328897.56 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | | 6211631.45 | 2329092.28 | 8.00 | 0.00 |
| | | | | | 6210473.67 | 2329106.75 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | | 6210724.54 | 2329103.62 | 8.00 | 0.00 |
| | | | | | 6210722.08 | 2328904.54 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | | 6210706.48 | 2327508.89 | 8.00 | 0.00 |
| | | _ | | | 6210702.42 | 2327275.11 | 8.00 | 0.00 |
| | | | | | 6210706.91 | 2327263.64 | 8.00 | 0.00 |
| | | Н | | _ | 6210700.31 | 2327257.16 | 8.00 | 0.00 |
| | | | | | 6210725.36 | 2327251.17 | 8.00 | 0.00 |
| | | Н | | | 6210732.84 | 2327245.69 | 8.00 | 0.00 |
| | | | | | 6211601.11 | 2327239.20 | 8.00 | 0.00 |
| | | _ | | _ | 6211606.09 | 2327248.68 | 8.00 | 0.00 |
| | | | | | 6211609.09 | 2327248.68 | 8.00 | 0.00 |
| | | _ | | - | 6211611.08 | 2327208.03 | 8.00 | 0.00 |
| | | Н | | | 6211726.28 | 2327400.77 | 8.00 | 0.00 |
| LINECOLIDOE | 8.00 | а | | _ | 6211726.28 | 2327407.77 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | d | | _ | | | 8.00 | |
| | | | | | 6211913.67 | 2327325.58 | | 0.00 |
| | | Н | | _ | 6211894.36 | 2327326.74 | 8.00 | 0.00 |
| | | Н | | _ | 6211878.23 | 2327334.23 | 8.00 | 0.00 |
| | | | | | 6211863.53 | 2327350.08 | 8.00 | 0.00 |
| | | Н | | _ | 6211850.28 | 2327362.18 | 8.00 | 0.00 |
| | | | | | 6211839.91 | 2327373.41 | 8.00 | 0.00 |
| | | | | | 6211819.74 | 2327383.79 | 8.00 | 0.00 |
| | | | | | 6211791.50 | 2327386.96 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | | 6209903.87 | 2329584.85 | 8.00 | 0.00 |
| | | | | | 6209893.62 | 2328907.40 | 8.00 | 0.00 |
| | | | | _ | 6209788.19 | 2328904.83 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | | 6212902.09 | 2327321.74 | 8.00 | 0.00 |
| | | Ц | | _ | 6212923.04 | 2327323.59 | 8.00 | 0.00 |
| | | Ц | | | 6212946.29 | 2327322.98 | 8.00 | 0.00 |
| | | Ц | | | 6212970.14 | 2327331.54 | 8.00 | 0.00 |
| | | Ц | | | 6212983.60 | 2327340.72 | 8.00 | 0.00 |
| | | | | | 6212994.62 | 2327354.79 | 8.00 | 0.00 |
| | | | | | 6213002.57 | 2327365.80 | 8.00 | 0.00 |
| | | | | | 6213012.36 | 2327376.20 | 8.00 | 0.00 |
| | | | | _ | 6213028.26 | 2327383.54 | 8.00 | 0.00 |
| | | | | _ | 6213046.61 | 2327384.14 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | | 6212424.43 | 2327259.16 | 8.00 | 0.00 |
| | | | | | 6212423.90 | 2327193.89 | 8.00 | 0.00 |

Area Source(s)

| | | ~(~, | | | | | | | | | | | | | |
|------------|----|--------|-------|-----------|-------|-------|-----------|-------|------|-------|-------|--------|------------|--------|--------|
| Name | M. | ID | R | esult. PW | 'L | Re | esult. PW | L" | | Lw/L | i | Op | erating Ti | me | Height |
| | | | Day | Evening | Night | Day | Evening | Night | Туре | Value | norm. | Day | Special | Night | (ft) |
| | | | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | | | dB(A) | (min) | (min) | (min) | |
| AREASOURCE | | DOCK01 | 103.4 | 103.4 | 103.4 | 58.6 | 58.6 | 58.6 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK02 | 103.4 | 103.4 | 103.4 | 59.6 | 59.6 | 59.6 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK03 | 103.4 | 103.4 | 103.4 | 61.3 | 61.3 | 61.3 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK04 | 103.4 | 103.4 | 103.4 | 61.5 | 61.5 | 61.5 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK05 | 103.4 | 103.4 | 103.4 | 58.0 | 58.0 | 58.0 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |

Urban Crossroads, Inc.

| Name | ŀ | lei | ght | | Coordinat | es | |
|------------|-------|-----|------|------------|------------|------|--------|
| | Begin | | End | х | у | z | Ground |
| | (ft) | | (ft) | (ft) | (ft) | (ft) | (ft) |
| AREASOURCE | 8.00 | а | | 6210820.61 | 2328905.49 | 8.00 | 0.00 |
| | | | | 6210804.14 | 2327506.61 | 8.00 | 0.00 |
| | | | | 6210623.01 | 2327505.53 | 8.00 | 0.00 |
| | | | | 6210624.33 | 2327645.78 | 8.00 | 0.00 |
| | | П | | 6210567.88 | 2327644.90 | 8.00 | 0.00 |
| | | | | 6210578.02 | 2328907.15 | 8.00 | 0.00 |
| AREASOURCE | 8.00 | а | | 6211515.60 | 2327499.64 | 8.00 | 0.00 |
| | | | | 6211534.83 | 2328899.68 | 8.00 | 0.00 |
| | | | | 6211717.61 | 2328897.96 | 8.00 | 0.00 |
| | | | | 6211703.28 | 2327499.78 | 8.00 | 0.00 |
| AREASOURCE | 8.00 | а | | 6211940.00 | 2327413.05 | 8.00 | 0.00 |
| | | | | 6212901.47 | 2327413.61 | 8.00 | 0.00 |
| | | | | 6212902.71 | 2327231.37 | 8.00 | 0.00 |
| | | | | 6212464.66 | 2327233.85 | 8.00 | 0.00 |
| | | | | 6212464.66 | 2327258.60 | 8.00 | 0.00 |
| | | | | 6212376.81 | 2327259.83 | 8.00 | 0.00 |
| | | | | 6212375.57 | 2327227.66 | 8.00 | 0.00 |
| | | | | 6211936.29 | 2327225.19 | 8.00 | 0.00 |
| AREASOURCE | 8.00 | а | | 6209654.51 | 2329609.67 | 8.00 | 0.00 |
| | | | | 6209797.84 | 2329611.04 | 8.00 | 0.00 |
| | | | | 6209794.22 | 2329539.87 | 8.00 | 0.00 |
| | | | | 6209849.71 | 2329537.46 | 8.00 | 0.00 |
| | | | | 6209843.68 | 2328940.34 | 8.00 | 0.00 |
| | | | | 6209788.19 | 2328940.34 | 8.00 | 0.00 |
| | | | | 6209788.19 | 2328858.31 | 8.00 | 0.00 |
| | | | | 6209842.48 | 2328858.31 | 8.00 | 0.00 |
| | | | | 6209843.68 | 2328823.33 | 8.00 | 0.00 |
| | | | | 6209774.41 | 2328822.12 | 8.00 | 0.00 |
| | | | | 6209773.72 | 2328660.48 | 8.00 | 0.00 |
| | | П | | 6209644.61 | 2328659.34 | 8.00 | 0.00 |
| AREASOURCE | 8.00 | а | | 6208475.51 | 2329147.10 | 8.00 | 0.00 |
| | | | | 6209023.27 | 2329145.24 | 8.00 | 0.00 |
| | | П | | 6209019.85 | 2329005.13 | 8.00 | 0.00 |
| | | | | 6209018.25 | 2328950.87 | 8.00 | 0.00 |
| | | | | 6209073.73 | 2328949.85 | 8.00 | 0.00 |
| | | | | 6209071.69 | 2328612.52 | 8.00 | 0.00 |
| | | | | 6209014.50 | 2328611.50 | 8.00 | 0.00 |
| | | | | 6209015.89 | 2328486.61 | 8.00 | 0.00 |
| | | | | 6208470.17 | 2328489.52 | 8.00 | 0.00 |

Barrier(s)

| Name | M. | ID | Abso | rption | Z-Ext. | Cant | ilever | H | lei | ght | | Coordinat | es | |
|-------------|----|----|------|--------|--------|-------|--------|-------|-----|------|------------|------------|-------|--------|
| | | | left | right | | horz. | vert. | Begin | | End | x | у | z | Ground |
| | | | | | (ft) | (ft) | (ft) | (ft) | | (ft) | (ft) | (ft) | (ft) | (ft) |
| BARRIERTEMP | | 0 | | | | | | 9.00 | а | | 6209019.85 | 2329005.13 | 9.00 | 0.00 |
| | | | | | | | | | | | 6209023.27 | 2329145.24 | 9.00 | 0.00 |
| | | | | | | | | | | | 6208475.51 | 2329147.10 | 9.00 | 0.00 |
| | | | | | | | | | | | 6208470.17 | 2328489.52 | 9.00 | 0.00 |
| | | | | | | | | | | | 6209015.89 | 2328486.61 | 9.00 | 0.00 |
| | | | | | | | | | | | 6209017.01 | 2328559.29 | 9.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 9.00 | а | | 6209014.84 | 2328599.58 | 9.00 | 0.00 |
| | | | | | | | | | | | 6209014.50 | 2328611.50 | 9.00 | 0.00 |
| | | | | | | | | | | | 6209071.69 | 2328612.52 | 9.00 | 0.00 |
| | | | | | | | | | | | 6209073.73 | 2328949.85 | 9.00 | 0.00 |
| | | | | | | | | | | | 6209018.25 | 2328950.87 | 9.00 | 0.00 |
| | | | | | | | | | | | 6209018.25 | 2328964.49 | 9.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | 6211567.63 | 2327497.37 | 14.00 | 0.00 |
| | | | | | | | | | | | 6211603.17 | 2327496.72 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | 6211637.24 | 2327499.73 | 14.00 | 0.00 |
| | | | | | | | | | | | 6211703.28 | 2327499.78 | 14.00 | 0.00 |
| | | | | | | | | | | | 6211717.61 | 2328897.96 | 14.00 | 0.00 |
| | | | | | | | | | | | 6211645.99 | 2328899.26 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | 6211611.63 | 2328899.69 | 14.00 | 0.00 |
| | | | | | | | | | | | 6211534.83 | 2328899.68 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | 6210820.63 | 2328906.70 | 14.00 | 0.00 |
| | | | | | | | | | | | 6210742.97 | 2328907.15 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | 6210705.92 | 2328906.71 | 14.00 | 0.00 |
| | | | | | | | | | | | 6210578.02 | 2328907.15 | 14.00 | 0.00 |
| | | | | | | | | | | | 6210574.49 | 2328522.13 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | 6210575.38 | 2328483.31 | 14.00 | 0.00 |
| | | | | | | | | | | | 6210567.88 | 2327644.90 | 14.00 | 0.00 |
| | | | | | | | | | | | 6210624.33 | 2327645.78 | 14.00 | 0.00 |
| | | | | | | | | | | | 6210623.01 | 2327505.53 | 14.00 | 0.00 |
| | | | | | | | | | П | | 6210694.46 | 2327505.09 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | 6210804.14 | 2327506.61 | 14.00 | 0.00 |
| | | | | | | | | | | | 6210727.09 | 2327506.85 | 14.00 | 0.00 |

Building(s)

| bulluli | <u> 8'</u> | ارد | | | | | | | | | |
|----------|------------|---------------|----|-----------|------------|--------|---|------------|------------|-------|--------|
| Name | M. | ID | RB | Residents | Absorption | Height | : | | Coordinat | es | |
| | | | | | | Begin | | х | у | Z | Ground |
| | | | | | | (ft) | | (ft) | (ft) | (ft) | (ft) |
| BUILDING | | BUILDING00001 | х | 0 | | 45.00 | а | 6210822.62 | 2329076.35 | 45.00 | 0.00 |
| | | | | | | | | 6211537.19 | 2329071.36 | 45.00 | 0.00 |
| | | | | | | | | 6211515.57 | 2327497.42 | 45.00 | 0.00 |
| | | | | | | | | 6211567.63 | 2327497.37 | 45.00 | 0.00 |
| | | | | | | | | 6211562.59 | 2327327.89 | 45.00 | 0.00 |
| | | | | | | | | 6210755.80 | 2327339.03 | 45.00 | 0.00 |
| | | | | | | | | 6210754.57 | 2327507.32 | 45.00 | 0.00 |
| | | | | | | | | 6210804.14 | 2327506.61 | 45.00 | 0.00 |
| BUILDING | | BUILDING00002 | х | 0 | | 45.00 | а | 6211824.22 | 2327736.32 | 45.00 | 0.00 |
| | | | | | | | | 6213019.08 | 2327733.72 | 45.00 | 0.00 |
| | | | | | | | | 6213017.77 | 2327424.08 | 45.00 | 0.00 |
| | | | | | | | | 6212981.92 | 2327421.48 | 45.00 | 0.00 |
| | | | | | | | | 6212983.88 | 2327413.65 | 45.00 | 0.00 |
| | | | | | | | | 6211857.46 | 2327413.00 | 45.00 | 0.00 |
| | | | | | | | | 6211858.11 | 2327425.39 | 45.00 | 0.00 |
| | | | | | | | | 6211822.26 | 2327425.39 | 45.00 | 0.00 |
| BUILDING | | BUILDING00003 | х | 0 | | 45.00 | а | 6209253.59 | 2329727.23 | 45.00 | 0.00 |
| | | | | | | | | 6209706.48 | 2329723.51 | 45.00 | 0.00 |
| | | | | | | | | 6209706.48 | 2329610.91 | 45.00 | 0.00 |
| | | | | | | | | 6209654.51 | 2329609.67 | 45.00 | 0.00 |
| | | | | | | | | 6209644.61 | 2328659.34 | 45.00 | 0.00 |
| | | | | | | | | 6209695.34 | 2328659.34 | 45.00 | 0.00 |
| | | | | | | | | 6209692.87 | 2328551.69 | 45.00 | 0.00 |
| | | | | | | | | 6209284.52 | 2328550.45 | 45.00 | 0.00 |
| | | | | | | | | 6209283.29 | 2328607.37 | 45.00 | 0.00 |
| | | | | | | | | 6209244.93 | 2328609.85 | 45.00 | 0.00 |

Urban Crossroads, Inc.

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APPENDIX 9.2:

CADNAA OYD2 OPERATIONAL NOISE MODEL INPUTS



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12991 - Bloomington Business Park Specific Plan- PLD CadnaA Noise Prediction Model: 12991_04_MRIDA.cna

Date: 03.05.21 Analyst: S. Shami

Calculation Configuration

| Configurat | tion |
|--------------------------------------|--------------------------------|
| Parameter | Value |
| General | |
| Country | (user defined) |
| Max. Error (dB) | 0.00 |
| Max. Search Radius (#(Unit,LEN)) | 2000.01 |
| Min. Dist Src to Rcvr | 0.00 |
| Partition | |
| Raster Factor | 0.50 |
| Max. Length of Section (#(Unit,LEN)) | 999.99 |
| Min. Length of Section (#(Unit,LEN)) | 1.01 |
| Min. Length of Section (%) | 0.00 |
| Proj. Line Sources | On |
| Proj. Area Sources | On |
| Ref. Time | |
| Reference Time Day (min) | 960.00 |
| Reference Time Night (min) | 480.00 |
| Daytime Penalty (dB) | 0.00 |
| Recr. Time Penalty (dB) | 5.00 |
| Night-time Penalty (dB) | 10.00 |
| DTM | |
| Standard Height (m) | 0.00 |
| Model of Terrain | Triangulation |
| Reflection | . 0 |
| max. Order of Reflection | 2 |
| Search Radius Src | 100.00 |
| Search Radius Rcvr | 100.00 |
| Max. Distance Source - Rcvr | 1000.00 1000.00 |
| Min. Distance Rvcr - Reflector | 1.00 1.00 |
| Min. Distance Source - Reflector | 0.10 |
| Industrial (ISO 9613) | |
| Lateral Diffraction | some Obj |
| Obst. within Area Src do not shield | On |
| Screening | Incl. Ground Att. over Barrier |
| | Dz with limit (20/25) |
| Barrier Coefficients C1,2,3 | 3.0 20.0 0.0 |
| Temperature (#(Unit,TEMP)) | 10 |
| rel. Humidity (%) | 70 |
| Ground Absorption G | 0.50 |
| Wind Speed for Dir. (#(Unit,SPEED)) | 3.0 |
| Roads (RLS-90) | |
| Strictly acc. to RLS-90 | |
| Railways (FTA/FRA) | |
| Aircraft (???) | |
| Strictly acc. to AzB | |

Receiver Noise Levels

| Name | M. | ID | | Level Lr | | Lir | nit. Val | ue | | Lanc | Use | Height | | Co | oordinates | |
|-----------|----|-------|-------|----------|-------|-------|----------|-------|------|------|------------|--------|---|------------|------------|------|
| | | | Day | Night | CNEL | Day | Night | CNEL | Туре | Auto | Noise Type | | Х | | Υ | Z |
| | | | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | | | | (ft) | | (ft) | (ft) | (ft) |
| RECEIVERS | | M-R1 | 51.8 | 49.8 | 56.4 | 59.0 | 55.0 | 0.0 | | | | 5.00 | а | 6209085.24 | 2329695.58 | 5.00 |
| RECEIVERS | | M-R2 | 50.7 | 46.6 | 53.6 | 63.0 | 60.0 | 0.0 | | | | 5.00 | а | 6209676.52 | 2329872.45 | 5.00 |
| RECEIVERS | | M-R3 | 52.9 | 50.5 | 57.2 | 71.0 | 67.0 | 0.0 | | | | 5.00 | а | 6210511.59 | 2329617.24 | 5.00 |
| RECEIVERS | | M-R4 | 49.0 | 45.7 | 52.6 | 59.0 | 56.0 | 0.0 | | | | 5.00 | а | 6211644.77 | 2329342.53 | 5.00 |
| RECEIVERS | | M-R5 | 49.9 | 47.8 | 54.4 | 67.0 | 65.0 | 0.0 | | | | 5.00 | a | 6211822.18 | 2328712.96 | 5.00 |
| RECEIVERS | | M-R6 | 52.0 | 48.3 | 55.3 | 57.0 | 54.0 | 0.0 | | | | 5.00 | а | 6212891.19 | 2328558.88 | 5.00 |
| RECEIVERS | | M-R7 | 48.0 | 45.6 | 52.3 | 68.0 | 62.0 | 0.0 | | | | 5.00 | а | 6213126.07 | 2327054.66 | 5.00 |
| RECEIVERS | | M-R8 | 47.7 | 43.2 | 50.4 | 59.0 | 55.0 | 0.0 | | | | 5.00 | a | 6212357.84 | 2326964.81 | 5.00 |
| RECEIVERS | | M-R9 | 52.0 | 50.4 | 56.9 | 58.0 | 55.0 | 0.0 | | | | 5.00 | а | 6210361.40 | 2328187.64 | 5.00 |
| RECEIVERS | | M-R10 | 50.9 | 49.0 | 55.6 | 55.0 | 53.0 | 0.0 | | | | 5.00 | а | 6209028.59 | 2328394.59 | 5.00 |

Point Source(s)

| Name | M. | ID | R | esult. PW | 'L | | Lw/L | i | Ope | erating Ti | me | K0 | Height | : | Co | oordinates | | |
|-------------|----|---------|-------|-----------|-------|------|-------|-------|--------|------------|-------|------|--------|---|------------|------------|------|--|
| | | | Day | Evening | Night | Туре | Value | norm. | Day | Special | Night | | | | Х | Υ | Z | |
| | | | (dBA) | (dBA) | (dBA) | | | dB(A) | (min) | (min) | (min) | (dB) | (ft) | | (ft) | (ft) | (ft) | |
| POINTSOURCE | | TRASH13 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6211688.45 | 2328878.34 | 5.00 | |
| POINTSOURCE | | TRASH12 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6210658.65 | 2327526.87 | 5.00 | |
| POINTSOURCE | | TRASH11 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | a | 6211665.88 | 2327525.09 | 5.00 | |
| POINTSOURCE | | TRASH10 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6210366.78 | 2329479.02 | 5.00 | |
| POINTSOURCE | | TRASH09 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6209205.71 | 2329489.25 | 5.00 | |
| POINTSOURCE | | TRASH08 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6209200.60 | 2328745.14 | 5.00 | |

| Part | Name | M. | ID | R | esult. PW | 'L | | Lw / L | i | Op | erating Ti | ime | КО | Height | П | Co | oordinates | |
|--|-------------|----------|------------------|--------------|--------------|--------------|------|--------------|-------|--------|------------|---------|------|--------|---------------|------------|------------|-------|
| POINTSULECT TASKIDE 80 80 80 80 80 80 80 8 | | | | Day | Evening | Night | Туре | Value | norm. | | | | | | | Х | Υ | Z |
| Points Suprice Poin | | | | (dBA) | (dBA) | (dBA) | | | dB(A) | (min) | (min) | (min) | (dB) | (ft) | | (ft) | (ft) | (ft) |
| Points P | POINTSOURCE | | | | | | | | | | | | | | _ | | | 5.00 |
| POINTSULINEE PASS-100 Sept Se | | | | | | | | | | | | | | | \rightarrow | | | |
| POINTSUMER TACK-196 180 | | | | | | | | | | | | | | | - | | | |
| POINTSQUIET TASSHOL 390 890 891 891 891 892 893 894 894 895 | POINTSOURCE | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSQUIEC ACCI | POINTSOURCE | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSUMER ACCY 89 88 88 88 88 88 88 8 | POINTSOURCE | | TRASH01 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6208931.16 | 2328931.64 | 5.00 |
| POINTSUMEC | POINTSOURCE | | AC01 | 88.9 | 88.9 | 88.9 | Lw | 88.9 | | 585.00 | 0.00 | 252.00 | 0.0 | 5.00 | g | 6209403.01 | 2328648.02 | 50.00 |
| POINTSUMER | POINTSOURCE | | | | | | | | | | | | | | g | | | 50.00 |
| POINTSOURCE | | | | | | | | | | | | | | | - | | | 50.00 |
| POINTSUMER COS | | | | | | | | | | | | | | | - | | | |
| PONTSUMEC | | | | | | | | | | | | | | | - | | | |
| POINTSUMEC ACOB 889 88 | POINTSOURCE | | | | | | | | | | | | | | - | | | 50.00 |
| POINTSUMER ACIU 889 88 | POINTSOURCE | | AC08 | 88.9 | 88.9 | 88.9 | Lw | 88.9 | | | 0.00 | 252.00 | 0.0 | | - | | | 50.00 |
| POINTSUMER ACT 889 | POINTSOURCE | | AC09 | 88.9 | 88.9 | 88.9 | Lw | 88.9 | | 585.00 | 0.00 | 252.00 | 0.0 | 5.00 | g | 6210838.28 | 2329053.23 | 50.00 |
| POINTSOURCE ACIZE 88-9 88-9 88-9 88-9 88-8 88-8 88-9 | POINTSOURCE | | AC10 | 88.9 | 88.9 | 88.9 | Lw | 88.9 | | 585.00 | 0.00 | 252.00 | 0.0 | 5.00 | g | 6211506.23 | 2329044.80 | 50.00 |
| PARNOLIDATE PARNOL 87.8 | POINTSOURCE | | | | | | | | | | | | | | - | | | 50.00 |
| POINTSUURCE PARKO 87.8 87.8 87.8 87.8 87.8 90.00 00.0 40.00 00.5 50.0 \$203956.3 \$223556.3 \$5.00 \$00NTSOURCE PARKO 87.8 | | | | | | | | | | | | | | | - | | | |
| POINTSUURCE PARKO 87.8 8 | | | | | | | | | | | | | | | \dashv | | | |
| POINTSOURCE PARKO 87.8 | | | | | | | | | | | | | | | \rightarrow | | | |
| POINTSURCE PARKOG 878 878 878 878 W 878 8 9000 0.00 54000 0.0 5400 0 6 201967679 2329158.54 5000 0.00 54000 0.0 54000 0.0 5400 0.0 5200 0.0 520067679 2329158.54 5000 0.00 54000 0.0 540 | POINTSOURCE | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARKOS 87.8 87.8 87.8 14.8 87.8 90.00 0.00 54.00 0.0 5.00 a 21078762 323894196 5.00 POINTSOURCE PARKOS 87.8 87.8 87.8 87.8 87.8 90.00 0.00 54.00 0.0 5.00 a 21078762 323894196 5.00 POINTSOURCE PARKOS 87.8 87.8 87.8 14.8 87.8 90.00 0.00 54.00 0.0 5.00 a 21078762 2328952 5.00 POINTSOURCE PARKOS 87.8 87.8 87.8 14.8 87.8 90.00 0.00 54.00 0.0 5.00 a 21078762 2328952 5.00 POINTSOURCE PARKIS 87.8 87. | POINTSOURCE | | | | | | | | | | | | | | - | | | 5.00 |
| POINTSOURCE PARKO 87.8 8 | POINTSOURCE | | PARK06 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6210854.66 | 2329155.96 | 5.00 |
| POINTSOURCE PARKID 87.8 87.8 LW 87.8 90.000 0.00 540.00 0.00 5.00 a \$203110 51 228590.00 5.00 POINTSOURCE PARKIT 87.8 87.8 LW 87.8 90.000 0.00 540.00 0.0 5.00 a \$203110 51 228556.21 5.00 POINTSOURCE PARKIT 87.8 87.8 LW 87.8 90.000 0.00 540.00 0.0 5.00 a \$203110 522855.01 5.00 POINTSOURCE PARKIT 87.8 87.8 B7.8 LW 87.8 90.000 0.00 540.00 0.0 5.00 a \$203019.25 228555.77 5.00 POINTSOURCE PARKIT 87.8 87.8 B7.8 LW 87.8 90.000 0.00 540.00 0.0 5.00 a \$203019.25 228555.77 5.00 POINTSOURCE PARKIT 87.8 87.8 B7.8 LW 87.8 90.000 0.00 540.00 0.0 5.00 a \$203019.00 228556.03 5.00 POINTSOURCE PARKIT 87.8 87.8 LW 87.8 90.000 0.00 540.00 0.0 5.00 a \$203019.00 228556.03 5.00 POINTSOURCE PARKIT 87.8 87.8 LW 87.8 90.000 0.00 540.00 0.0 5.00 a \$203019.25 228556.07 5.00 POINTSOURCE PARKIT 87.8 87.8 B7.8 LW 87.8 90.000 0.00 540.00 0.0 5.00 a \$203019.25 228556.07 5.00 POINTSOURCE PARKIT 87.8 87.8 B7.8 LW 87.8 90.000 0.00 540.00 0.0 5.00 a \$203019.25 228556.07 5.00 POINTSOURCE PARKIT 87.8 87.8 B7.8 LW 87.8 90.000 0.00 540.00 0.0 5.00 a \$203019.25 228556.07 5.00 POINTSOURCE PARKIT 87.8 87.8 B7.8 LW 87.8 90.000 0.00 540.00 0.0 5.00 a \$203019.25 228556.07 5.00 POINTSOURCE PARKIT 87.8 87.8 B7.8 LW 87.8 90.000 0.00 540.00 0.0 5.00 a \$203019.25 223556.07 5.00 POINTSOURCE PARKIT 87.8 87.8 B7.8 LW 87.8 90.000 0.00 540.00 0.0 5.00 a \$203019.25 223556.07 5.00 POINTSOURCE PARKIT 87.8 87.8 B7.8 LW 87.8 90.000 0.00 540.00 0.0 5.00 a \$203019.25 223556.07 5.00 POINTSOURCE PARKIT 87.8 87.8 B7.8 LW 87.8 90.000 0.00 540.00 0.0 5.00 a \$203019.25 223556.07 5.00 POINTSOURCE PARKIT 87.8 | POINTSOURCE | | PARK07 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6210787.62 | 2328941.96 | 5.00 |
| POINTSOURCE PARKI1 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 621013.19 2228576.3 5.00 POINTSOURCE PARKI1 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 621014.04 2228552.51 5.00 POINTSOURCE PARKI1 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 621014.04 2228555.19 5.00 POINTSOURCE PARKI1 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620019.22 228855.19 5.00 POINTSOURCE PARKI1 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620019.23 228855.19 5.00 POINTSOURCE PARKI1 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620074.33 228856.03 5.00 POINTSOURCE PARKI 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620074.33 228856.00 5.00 POINTSOURCE PARKI 87.8 87.8 RT LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620074.33 228856.00 5.00 POINTSOURCE PARKI 87.8 87.8 RT LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620074.33 228856.00 5.00 POINTSOURCE PARKI 87.8 87.8 RT LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620074.33 228856.00 5.00 POINTSOURCE PARKI 87.8 87.8 RT LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620074.33 228856.00 5.00 POINTSOURCE PARKI 87.8 87.8 RT LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620074.00 2229562.66 5.00 POINTSOURCE PARKI 87.8 87.8 RT LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620074.00 2229565.18 5.00 POINTSOURCE PARKI 87.8 87.8 RT LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620074.00 2229565.18 5.00 POINTSOURCE PARKI 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620074.00 2229565.15 5.00 POINTSOURCE PARKI 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620074.00 2229565.15 5.00 POINTSOURCE | POINTSOURCE | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK12 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620019.25 2328556.35 5.00 POINTSOURCE PARK13 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620095.22 2328557.77 5.00 POINTSOURCE PARK13 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620952.22 2328557.77 5.00 POINTSOURCE PARK14 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620952.22 2328557.77 5.00 POINTSOURCE PARK15 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620952.22 2328557.77 5.00 POINTSOURCE PARK18 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620952.22 2328556.05 5.00 POINTSOURCE PARK18 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620951.22 232856.00 5.00 POINTSOURCE PARK18 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620931.23 232956.60 5.00 POINTSOURCE PARK18 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620931.25 232956.60 5.00 POINTSOURCE PARK19 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620931.25 232956.60 5.00 POINTSOURCE PARK19 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620931.25 232956.00 5.00 POINTSOURCE PARK21 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620931.25 232956.13 5.00 POINTSOURCE PARK23 87.8 87.8 R. LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620931.27 232956.13 5.00 POINTSOURCE PARK23 87.8 87.8 R. LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620931.27 232956.13 5.00 POINTSOURCE PARK23 87.8 87.8 R. LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620931.27 232956.13 5.00 POINTSOURCE PARK23 87.8 87.8 R. LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620931.27 232956.13 | POINTSOURCE | | | | | | | | | | | | | | - | | | |
| POINTSOURCE PARK13 87.8 87.8 1.5 87.8 1.5 90.00 0.00 54.00 0.0 5.00 8 200919.25 232855517 5.00 POINTSOURCE PARK14 87.8 87.8 87.8 1.5 87.8 1.5 87.8 90.00 0.00 54.00 0.0 5.00 8 200919.25 232855613 5.00 POINTSOURCE PARK14 87.8 87.8 87.8 1.5 87.8 90.00 0.00 54.00 0.0 5.00 8 200919.25 232855613 5.00 POINTSOURCE PARK14 87.8 87.8 87.8 1.5 1.5 87.8 90.00 0.00 54.00 0.0 5.00 8 200919.23 232855613 5.00 POINTSOURCE PARK14 87.8 87.8 87.8 1.5 1.5 87.8 90.00 0.00 54.00 0.0 5.00 8 200913.33 2328550.75 5.00 POINTSOURCE PARK12 87.8 87.8 87.8 1.5 87.8 90.00 0.00 54.00 0.0 5.00 8 200913.37 2328560.95 5.00 POINTSOURCE PARK12 87.8 87.8 1.5 1.5 87.8 90.00 0.00 54.00 0.0 5.00 8 200913.37 2328560.95 5.00 POINTSOURCE PARK12 87.8 87.8 1.5 1.5 87.8 90.00 0.00 54.00 0.0 5.00 8 201913.50 232962.66 5.00 POINTSOURCE PARK12 87.8 87.8 87.8 1.5 1.5 87.8 90.00 0.00 54.00 0.0 5.00 8 201913.50 2329650.75 5.00 POINTSOURCE PARK22 87.8 87.8 87.8 1.5 1.5 87.8 90.00 0.00 54.00 0.0 5.00 8 201913.50 2329650.75 5.00 POINTSOURCE PARK22 87.8 87.8 87.8 1.5 87.8 90.00 0.00 54.00 0.0 5.00 8 201913.50 2329656.75 5.00 POINTSOURCE PARK23 87.8 87.8 87.8 1.5 87.8 90.00 0.00 54.00 0.0 5.00 8 201913.50 2329656.75 5.00 POINTSOURCE PARK25 87.8 87.8 87.8 1.5 87.8 90.00 0.00 54.00 0.0 5.00 8 202903.50 2329656.75 5.00 POINTSOURCE PARK25 87.8 87.8 87.8 1.5 87.8 90.00 0.00 54.00 0.0 5.00 8 202903.50 2329656.75 5.00 POINTSOURCE PARK25 87.8 87.8 87.8 1.5 87.8 90.00 0.00 54.00 0.0 5.00 8 202903.75 2329656.75 5.00 POINTSOURCE PARK25 87.8 87.8 87.8 1.5 87.8 90.00 0.00 54.00 0. | | | | | | | | | | | | | | | \rightarrow | | | |
| POINTSOURCE PARK14 87.8 87.8 87.8 W 87.8 97.0 W 87.8 90.00 0.00 540.00 0.0 5.00 a 6209952.21 238557.77 5.00 POINTSOURCE PARK14 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209672.33 2328557.77 5.00 POINTSOURCE PARK15 87.8 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209672.33 2328557.77 5.00 POINTSOURCE PARK16 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209672.33 2328557.75 5.00 POINTSOURCE PARK18 87.8 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209672.33 2328557.75 5.00 POINTSOURCE PARK18 87.8 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209672.33 2328557.76 5.00 POINTSOURCE PARK18 87.8 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 620932.02 2328566.07 5.00 POINTSOURCE PARK28 87.8 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 620932.02 232950.00 5.00 POINTSOURCE PARK21 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 620932.02 232950.00 5.00 POINTSOURCE PARK21 87.8 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 620932.02 2329565.18 5.00 POINTSOURCE PARK24 87.8 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 620932.02 2329565.18 5.00 POINTSOURCE PARK24 87.8 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 620932.02 2329565.18 5.00 POINTSOURCE PARK24 87.8 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 620932.02 2329565.18 5.00 POINTSOURCE PARK24 87.8 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 620932.02 2329565.18 5.00 POINTSOURCE PARK24 87.8 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209357.71 2329565.75 5.00 POINTSOURCE PARK29 87.8 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209357.71 2329565.75 5.00 POINTSOURCE PARK29 87.8 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209647.96 2329565.19 5.00 POINTSOURCE PARK39 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209647.96 2329565.19 5.00 POINTSOURCE PARK39 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209647.96 2329565.19 5.00 POINTSOURCE PARK39 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209647.96 2329565.19 5.00 POINTSOURCE PARK39 87.8 87.8 W 87.8 W 87.8 900.00 0.00 540.00 0.0 5.0 | | | | | | | | | | | | | | | \rightarrow | | | |
| POINTSOURCE PARK1 87.8 87.8 87.8 \ 87.8 \ 1.0 \ 87.8 \ 1.0 \ 87.8 \ 1.0 \ 90.00 \ 0.00 \ 50.00 \ 50.00 \ 10 \ | | | | | | | | | | | | | - | | \dashv | | | |
| POINTSOURCE PARK16 87.8 87.8 87.8 87.8 W 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620967.23 228557.77 S.O. POINTSOURCE PARK17 87.8 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620954.24 22857.06 5.00 POINTSOURCE PARK18 87.8 87.8 87.8 W 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620931.37 228566.09 5.00 POINTSOURCE PARK19 87.8 87.8 87.8 W 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620932.02 238566.07 5.00 POINTSOURCE PARK19 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620032.02 232566.07 5.00 POINTSOURCE PARK21 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620032.02 232570.01 5.00 POINTSOURCE PARK22 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620032.02 232570.01 5.00 POINTSOURCE PARK24 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620032.02 232565.18 5.00 POINTSOURCE PARK24 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620039.95 232565.18 5.00 POINTSOURCE PARK24 87.8 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620039.95 232565.18 5.00 POINTSOURCE PARK24 87.8 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620939.95 232565.18 5.00 POINTSOURCE PARK25 87.8 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620939.95 232565.18 5.00 POINTSOURCE PARK26 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620931.75 232565.17 5.00 POINTSOURCE PARK29 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620931.75 232566.91 5.00 POINTSOURCE PARK29 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620931.75 232566.91 5.00 POINTSOURCE PARK30 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620931.75 232566.91 5.00 POINTSOURCE PARK30 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620931.75 232566.91 5.00 POINTSOURCE PARK31 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620931.75 232566.91 5.00 POINTSOURCE PARK31 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 620327.79 4232731.75 5.00 POINTSOURCE PARK31 87.8 87.8 87.8 W 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 a 621227.79 4232731.75 5.00 POINTSOURCE PARK34 87.8 87.8 87.8 87.8 W 87.8 90.00 0.00 540.00 0.0 5.00 | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
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| POINTSOURCE PARK18 87.8 87.8 87.8 87.8 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | POINTSOURCE | | PARK16 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6209542.24 | 2328570.66 | 5.00 |
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| POINTSOURCE PARK27 87.8 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209557.71 2329663.91 5.00 POINTSOURCE PARK28 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209557.71 2329663.91 5.00 POINTSOURCE PARK29 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209258.62 2329907.74 5.00 POINTSOURCE PARK31 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209258.62 2329707.74 5.00 POINTSOURCE PARK31 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209258.62 2329707.74 5.00 POINTSOURCE PARK32 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620258.62 2329707.74 5.00 POINTSOURCE PARK33 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6212669.09 2327320.13 5.00 POINTSOURCE PARK33 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6212276.94 2327317.55 5.00 POINTSOURCE PARK33 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6212256.72 2327314.98 5.00 POINTSOURCE PARK33 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6212566.72 2327314.95 5.00 POINTSOURCE PARK35 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6212566.72 2327314.95 5.00 POINTSOURCE PARK37 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6212566.72 2327314.95 5.00 POINTSOURCE PARK37 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6212566.72 2327314.95 5.00 POINTSOURCE PARK37 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6212566.72 2327314.95 5.00 POINTSOURCE PARK37 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6212566.72 2327314.53 5.00 POINTSOURCE PARK37 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6212664.70 2327315.55 5.00 POINTSOURCE PARK37 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6211695.22 2328972.90 5.00 POINTSOURCE PARK37 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6211694.23 2328393.93 5.00 POINTSOURCE PARK41 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6211954.23 2328393.95 5.00 POINTSOURCE PARK41 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6212958.02 2328360.88 5.00 POINTSOURCE PARK44 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6212599.52 2328360.8 | POINTSOURCE | | PARK25 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6209717.58 | 2329663.91 | 5.00 |
| POINTSOURCE PARK28 87.8 87.8 87.8 \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{9.00.00} 0.00 540.00 0.0 5.00 a 6209263.73 2329666.49 5.00 POINTSOURCE PARK29 87.8 87.8 87.8 \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{9.00.00} 0.00 540.00 0.0 5.00 a 6209263.73 2329635.55 5.00 POINTSOURCE PARK31 87.8 87.8 \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{9.00.00} 0.00 540.00 0.0 5.00 a 6212069.09 2327320.13 5.00 POINTSOURCE PARK31 87.8 87.8 87.8 \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{9.00.00} 0.00 540.00 0.0 5.00 a 6212165.12 232730.13 5.00 POINTSOURCE PARK34 87.8 87.8 87.8 \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{9.00.00} 0.00 540.00 0.0 5.00 a 6212165.12 2327320.13 5.00 POINTSOURCE PARK34 87.8 87.8 87.8 \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{9.00.00} 0.00 540.00 0.0 5.00 a 6212165.12 2327320.13 5.00 POINTSOURCE PARK34 87.8 87.8 87.8 87.8 \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{9.00.00} 0.00 540.00 0.0 5.00 a 6212165.12 2327317.55 5.00 POINTSOURCE PARK36 87.8 87.8 87.8 \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{9.00.00} 0.00 540.00 0.0 5.00 a 621266.72 2327317.55 5.00 POINTSOURCE PARK38 87.8 87.8 \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{9.00.00} 0.00 540.00 0.0 5.00 a 6212667.72 2327320.13 5.00 POINTSOURCE PARK39 87.8 87.8 87.8 \tag{8.7.8} \tag{8.7.8} \tag{9.00.00} 0.00 540.00 0.0 5.00 a 6212675.75 2327320.13 5.00 POINTSOURCE PARK39 87.8 87.8 87.8 \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{9.00.00} 0.00 540.00 0.0 5.00 a 6212675.75 2327320.13 5.00 POINTSOURCE PARK40 87.8 87.8 87.8 \tag{8.7.8} \tag{8.7.8} \tag{8.7.8} \tag{9.00.00} 0.00 540.00 0.0 5.00 a 6211658.8 2328897.0 5.00 POI | POINTSOURCE | | PARK26 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6209647.96 | 2329663.91 | 5.00 |
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| POINTSOURCE PARK56 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210811.64 2327315.51 5.00 POINTSOURCE PARK57 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210924.35 2327314.51 5.00 POINTSOURCE PARK57 87.8 87.8 Lw 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210924.35 2327314.51 5.00 POINTSOURCE PARK57 87.8 87.8 Lw 87.8 Lw 87.8 POINTSOURCE PARK57 87.8 87.8 Lw 87.8 Lw 87.8 POINTSOURCE PARK57 87.8 B7.8 B7.8 Lw 87.8 Lw 87.8 POINTSOURCE PARK57 87.8 B7.8 B7.8 Lw 87.8 Lw 87.8 POINTSOURCE PARK57 87.8 B7.8 B7.8 B7.8 Lw 87.8 POINTSOURCE PARK57 87.8 B7.8 B7.8 B7.8 B7.8 B7.8 B7.8 B7. | POINTSOURCE | | | | | | Lw | | | | | | | | - | | | 5.00 |
| POINTSOURCE PARK57 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210924.35 2327314.51 5.00 | POINTSOURCE | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| | POINTSOURCE | | PARK57 PARK58 | 87.8 87.8 | 87.8 87.8 | 87.8 87.8 | Lw | 87.8 87.8 | | 900.00 | | | 0.0 | | - | | 2327314.51 | 5.00 |

Urban Crossroads, Inc.

| Name | M. | ID | R | esult. PW | /L | | Lw/L | i | Ор | erating T | ime | K0 | Height | С | oordinates | |
|-------------|----|--------|-------|-----------|-------|------|-------|-------|--------|-----------|--------|------|--------|------------|------------|------|
| | | | Day | Evening | Night | Туре | Value | norm. | Day | Special | Night | | | х | Υ | Z |
| | | | (dBA) | (dBA) | (dBA) | | | dB(A) | (min) | (min) | (min) | (dB) | (ft) | (ft) | (ft) | (ft) |
| POINTSOURCE | | PARK59 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 a | 6211099.90 | 2327313.51 | 5.00 |
| POINTSOURCE | | PARK60 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 a | 6211264.97 | 2327311.02 | 5.00 |
| POINTSOURCE | | PARK61 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 a | 6211369.70 | 2327309.02 | 5.00 |
| POINTSOURCE | | PARK62 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 a | 6211510.34 | 2327308.02 | 5.00 |

Line Source(s)

| | - | - (- / | | | | | | | | | | | | | | | | | |
|------------|----|---------|-------|-----------|-------|-------|-----------|-------|--------|---------|-------|-------|------------|-------|------|---------|---------|-------|--------|
| Name | M. | ID | R | esult. PW | /L | R | esult. PW | L' | | Lw / Li | | Op | erating Ti | me | | Moving | Pt. Src | | Height |
| | | | Day | Evening | Night | Day | Evening | Night | Туре | Value | norm. | Day | Special | Night | | Number | | Speed | |
| | | | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | | | dB(A) | (min) | (min) | (min) | Day | Evening | Night | (mph) | (ft) |
| LINESOURCE | | DWY01 | 92.2 | 77.6 | 83.2 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY02 | 98.1 | 83.4 | 89.1 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY03 | 90.4 | 75.8 | 81.4 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY04 | 99.0 | 84.4 | 90.0 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY05 | 93.2 | 78.5 | 84.2 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY06 | 98.0 | 83.4 | 89.0 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY07 | 89.5 | 74.9 | 80.5 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY08 | 91.4 | 76.8 | 82.4 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY09 | 98.3 | 83.7 | 89.3 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY10 | 89.7 | 75.1 | 80.7 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY11 | 87.1 | 72.4 | 78.1 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY12 | 93.5 | 78.9 | 84.5 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY13 | 97.8 | 83.1 | 88.8 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY14 | 90.7 | 76.1 | 81.8 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY15 | 86.3 | 71.6 | 77.3 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY16 | 90.6 | 76.0 | 81.6 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY17 | 98.4 | 83.8 | 89.5 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY18 | 89.9 | 75.2 | 80.9 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY19 | 86.6 | 72.0 | 77.6 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |

| Name | | lei- | ght | | Coordinat | ec | |
|-------------|-------|----------|------|--------------------------|------------|--------------|--------|
| Name | Begin | 101 | End | x | у | 7 | Ground |
| | (ft) | Н | (ft) | (ft) | (ft) | (ft) | (ft) |
| LINESOURCE | 8.00 | а | (10) | 6211736.63 | 2329095.90 | 8.00 | 0.00 |
| ENVESCONCE | 0.00 | - | | 6211631.45 | 2329092.28 | 8.00 | 0.00 |
| | | Н | | 6211627.78 | 2328897.56 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6211631.45 | 2329092.28 | 8.00 | 0.00 |
| ENVESCORCE | 0.00 | ŭ | | 6210473.67 | 2329106.75 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6210724.54 | 2329103.62 | 8.00 | 0.00 |
| ENVESCORCE | 0.00 | <u> </u> | | 6210722.08 | 2328904.54 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6210706.48 | 2327508.89 | 8.00 | 0.00 |
| ENVESCORCE | 0.00 | u | | 6210702.42 | 2327275.11 | 8.00 | 0.00 |
| | | Н | | 6210702.42 | 2327273.11 | 8.00 | 0.00 |
| | | Н | | | 2327257.16 | | |
| | | Н | | 6210714.39 6210725.36 | 2327257.10 | 8.00 | 0.00 |
| | | Н | | 6210723.30 | 2327231.17 | 8.00 | 0.00 |
| | | Н | | | | | |
| | | Н | | 6211601.11 | 2327239.20 | 8.00 | 0.00 |
| | | Н | | 6211606.09 6211609.09 | 2327248.68 | 8.00 8.00 | 0.00 |
| | | Н | | | | | |
| | | Н | | 6211611.08 | 2327406.77 | 8.00 | 0.00 |
| LINECOLIBCE | 0.00 | | | 6211726.28 | 2327407.77 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6212893.09 | 2328202.41 | 8.00 | 0.00 |
| | | Н | | 6212893.09 | 2328415.75 | 8.00 | 0.00 |
| | | Н | | 6213053.82 | 2328405.79 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6212893.09 | 2328415.75 | 8.00 | 0.00 |
| | | Н | | 6212551.46 | 2328421.26 | 8.00 | 0.00 |
| | | Н | | 6212351.99 | 2328421.26 | 8.00 | 0.00 |
| | | Н | | 6211965.17 | 2328421.26 | 8.00 | 0.00 |
| | | Н | | 6211965.22 | 2328203.92 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6211965.17 | 2328421.26 | 8.00 | 0.00 |
| | | Н | | 6211804.27 | 2328404.73 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6212892.97 | 2327483.29 | 8.00 | 0.00 |
| | | Н | | 6212893.09 | 2327384.24 | 8.00 | 0.00 |
| | | Н | | 6213044.57 | 2327389.64 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6212893.09 | 2327384.24 | 8.00 | 0.00 |
| | | Н | | 6212889.79 | 2327308.19 | 8.00 | 0.00 |
| | | Н | | 6212883.18 | 2327282.85 | 8.00 | 0.00 |
| | | Н | | 6212867.75 | 2327272.93 | 8.00 | 0.00 |
| | | Н | | 6212849.01 | 2327264.11 | 8.00 | 0.00 |
| | | Н | | 6212008.15 | 2327264.11 | 8.00 | 0.00 |
| | | Н | | 6211980.60 | 2327281.75 | 8.00 | 0.00 |
| | | Н | | 6211966.27 | 2327302.68 | 8.00 | 0.00 |
| | | Н | | 6211962.97 | 2327342.36 | 8.00 | 0.00 |
| | | | | 6211963.93 | 2327482.19 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6211963.30 | 2327390.85 | 8.00 | 0.00 |
| | | Н | | 6211795.45 | 2327389.75 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6211611.08 | 2327406.77 | 8.00 | 0.00 |

Urban Crossroads, Inc.

| Name | ŀ | lei | ght | | Coordinat | es | |
|------------|-------|-----|------|------------|------------|------|--------|
| | Begin | | End | х | У | z | Ground |
| | (ft) | | (ft) | (ft) | (ft) | (ft) | (ft) |
| | | | | 6211612.44 | 2327498.72 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6209322.89 | 2328728.42 | 8.00 | 0.00 |
| | | | | 6209325.54 | 2328509.96 | 8.00 | 0.00 |
| | | | | 6209301.23 | 2328508.61 | 8.00 | 0.00 |
| | | | | 6209268.81 | 2328520.77 | 8.00 | 0.00 |
| | | | | 6209249.89 | 2328535.63 | 8.00 | 0.00 |
| | | | | 6209221.53 | 2328555.89 | 8.00 | 0.00 |
| | | | | 6209210.72 | 2328568.05 | 8.00 | 0.00 |
| | | | | 6209186.40 | 2328577.51 | 8.00 | 0.00 |
| | | | | 6209159.38 | 2328577.51 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6209325.54 | 2328509.96 | 8.00 | 0.00 |
| | | | | 6210406.26 | 2328505.91 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6210248.25 | 2328720.85 | 8.00 | 0.00 |
| | | | | 6210242.79 | 2328506.52 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6210570.36 | 2328504.58 | 8.00 | 0.00 |
| | | | | 6210494.07 | 2328501.86 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6209167.05 | 2329560.99 | 8.00 | 0.00 |
| | | | | 6209286.37 | 2329562.31 | 8.00 | 0.00 |
| | | | | 6209320.14 | 2329562.31 | 8.00 | 0.00 |
| | | | | 6209320.12 | 2329507.20 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6209320.14 | 2329562.31 | 8.00 | 0.00 |
| | | | | 6209324.19 | 2329667.68 | 8.00 | 0.00 |
| | | | | 6209329.60 | 2329693.35 | 8.00 | 0.00 |
| | | | | 6209341.76 | 2329701.45 | 8.00 | 0.00 |
| | | | | 6209355.26 | 2329709.56 | 8.00 | 0.00 |
| | | | | 6209367.42 | 2329717.66 | 8.00 | 0.00 |
| | | | | 6210211.73 | 2329714.96 | 8.00 | 0.00 |
| | | | | 6210230.64 | 2329709.56 | 8.00 | 0.00 |
| | | | | 6210241.45 | 2329693.35 | 8.00 | 0.00 |
| | | | | 6210252.26 | 2329678.49 | 8.00 | 0.00 |
| | | | | 6210256.31 | 2329662.28 | 8.00 | 0.00 |
| | | | | 6210257.67 | 2329498.63 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6210257.22 | 2329552.85 | 8.00 | 0.00 |
| | | | | 6210431.60 | 2329551.51 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6212432.65 | 2327264.11 | 8.00 | 0.00 |
| | | | | 6212432.67 | 2327181.44 | 8.00 | 0.00 |

Area Source(s)

| Name | M. | ID | R | esult. PW | 'L | Re | esult. PW | L" | | Lw/L | i | Ope | erating Ti | me | Height |
|------------|----|--------|-------|-----------|-------|-------|-----------|-------|------|-------|-------|--------|------------|--------|--------|
| | | | Day | Evening | Night | Day | Evening | Night | Туре | Value | norm. | Day | Special | Night | (ft) |
| | | | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | | | dB(A) | (min) | (min) | (min) | |
| AREASOURCE | | DOCK01 | 103.4 | 103.4 | 103.4 | 58.6 | 58.6 | 58.6 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK02 | 103.4 | 103.4 | 103.4 | 59.6 | 59.6 | 59.6 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK03 | 103.4 | 103.4 | 103.4 | 57.9 | 57.9 | 57.9 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK04 | 103.4 | 103.4 | 103.4 | 61.0 | 61.0 | 61.0 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK05 | 103.4 | 103.4 | 103.4 | 61.0 | 61.0 | 61.0 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK06 | 103.4 | 103.4 | 103.4 | 61.4 | 61.4 | 61.4 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK07 | 103.4 | 103.4 | 103.4 | 61.4 | 61.4 | 61.4 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |

| Name | ŀ | lei | ght | | Coordinat | es | |
|------------|-------|-----|------|------------|------------|------|--------|
| | Begin | | End | х | У | z | Ground |
| | (ft) | | (ft) | (ft) | (ft) | (ft) | (ft) |
| AREASOURCE | 8.00 | а | | 6210820.61 | 2328905.49 | 8.00 | 0.00 |
| | | | | 6210804.14 | 2327506.61 | 8.00 | 0.00 |
| | | | | 6210623.01 | 2327505.53 | 8.00 | 0.00 |
| | | | | 6210624.33 | 2327645.78 | 8.00 | 0.00 |
| | | | | 6210567.88 | 2327644.90 | 8.00 | 0.00 |
| | | | | 6210578.02 | 2328907.15 | 8.00 | 0.00 |
| AREASOURCE | 8.00 | а | | 6211515.60 | 2327499.43 | 8.00 | 0.00 |
| | | | | 6211534.83 | 2328899.68 | 8.00 | 0.00 |
| | | | | 6211717.61 | 2328897.96 | 8.00 | 0.00 |
| | | | | 6211703.27 | 2327498.57 | 8.00 | 0.00 |
| AREASOURCE | 8.00 | а | | 6208475.51 | 2329147.10 | 8.00 | 0.00 |
| | | | | 6209022.51 | 2329145.49 | 8.00 | 0.00 |
| | | | | 6209018.25 | 2328950.87 | 8.00 | 0.00 |
| | | | | 6209073.73 | 2328949.85 | 8.00 | 0.00 |
| | | | | 6209071.69 | 2328612.52 | 8.00 | 0.00 |
| | | | | 6209014.50 | 2328611.50 | 8.00 | 0.00 |
| | | | | 6209014.84 | 2328599.58 | 8.00 | 0.00 |
| | | | | 6209017.01 | 2328559.29 | 8.00 | 0.00 |
| | | | | 6209015.89 | 2328486.61 | 8.00 | 0.00 |
| | | | | 6208470.17 | 2328489.52 | 8.00 | 0.00 |
| AREASOURCE | 8.00 | а | | 6209432.52 | 2329506.93 | 8.00 | 0.00 |
| | | | | 6209427.72 | 2328727.91 | 8.00 | 0.00 |
| | | | | 6209188.18 | 2328729.08 | 8.00 | 0.00 |
| | | | | 6209192.57 | 2329507.50 | 8.00 | 0.00 |

| Name | ŀ | lei | ght | | Coordinat | es | |
|------------|-------|-----|------|------------|------------|------|--------|
| | Begin | | End | x | У | Z | Ground |
| | (ft) | | (ft) | (ft) | (ft) | (ft) | (ft) |
| AREASOURCE | 8.00 | а | | 6210145.51 | 2329498.53 | 8.00 | 0.00 |
| | | | | 6210385.76 | 2329498.74 | 8.00 | 0.00 |
| | | | | 6210380.65 | 2328719.58 | 8.00 | 0.00 |
| | | | | 6210137.11 | 2328721.91 | 8.00 | 0.00 |
| AREASOURCE | 8.00 | а | | 6212784.90 | 2328202.63 | 8.00 | 0.00 |
| | | | | 6212970.78 | 2328202.25 | 8.00 | 0.00 |
| | | | | 6212971.90 | 2328166.25 | 8.00 | 0.00 |
| | | | | 6213027.03 | 2328165.13 | 8.00 | 0.00 |
| | | | | 6213025.90 | 2327517.10 | 8.00 | 0.00 |
| | | | | 6212969.65 | 2327517.10 | 8.00 | 0.00 |
| | | | | 6212973.03 | 2327484.47 | 8.00 | 0.00 |
| | | | | 6212785.92 | 2327481.71 | 8.00 | 0.00 |
| AREASOURCE | 8.00 | а | | 6212075.22 | 2327483.76 | 8.00 | 0.00 |
| | | | | 6211886.23 | 2327481.09 | 8.00 | 0.00 |
| | | | | 6211886.23 | 2327515.97 | 8.00 | 0.00 |
| | | | | 6211834.48 | 2327518.22 | 8.00 | 0.00 |
| | | | | 6211832.23 | 2328168.50 | 8.00 | 0.00 |
| | | | | 6211890.73 | 2328169.63 | 8.00 | 0.00 |
| | | | | 6211888.48 | 2328203.38 | 8.00 | 0.00 |
| | | | | 6212073.18 | 2328204.68 | 8.00 | 0.00 |

Barrier(s)

| Name | M. | ID | Abso | rption | Z-Ext. | Cant | ilever | F | lei | ght | | Coordinat | es | |
|-------------|----|----|------|--------|--------|-------|--------|-------|-----|------|------------|------------|-------|--------|
| | | | left | right | | horz. | vert. | Begin | | End | х | у | z | Ground |
| | | | | | (ft) | (ft) | (ft) | (ft) | | (ft) | (ft) | (ft) | (ft) | (ft) |
| BARRIERTEMP | | 0 | | | | | | 9.00 | а | | 6209019.85 | 2329005.13 | 9.00 | 0.00 |
| | | | | | | | | | | | 6209023.27 | 2329145.24 | 9.00 | 0.00 |
| | | | | | | | | | | | 6208475.51 | 2329147.10 | 9.00 | 0.00 |
| | | | | | | | | | | | 6208470.17 | 2328489.52 | 9.00 | 0.00 |
| | | | | | | | | | | | 6209015.89 | 2328486.61 | 9.00 | 0.00 |
| | | | | | | | | | | | 6209017.01 | 2328559.29 | 9.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 9.00 | а | | 6209014.84 | 2328599.58 | 9.00 | 0.00 |
| | | | | | | | | | | | 6209014.50 | 2328611.50 | 9.00 | 0.00 |
| | | | | | | | | | | | 6209071.69 | 2328612.52 | 9.00 | 0.00 |
| | | | | | | | | | | | 6209073.73 | 2328949.85 | 9.00 | 0.00 |
| | | | | | | | | | | | 6209018.25 | 2328950.87 | 9.00 | 0.00 |
| | | | | | | | | | | | 6209018.25 | 2328964.49 | 9.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | 6211567.63 | 2327497.37 | 14.00 | 0.00 |
| | | | | | | | | | | | 6211601.69 | 2327495.90 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | 6211637.19 | 2327497.32 | 14.00 | 0.00 |
| | | | | | | | | | | | 6211703.23 | 2327495.19 | 14.00 | 0.00 |
| | | | | | | | | | | | 6211717.61 | 2328897.96 | 14.00 | 0.00 |
| | | | | | | | | | | | 6211645.99 | 2328899.26 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | 6211611.63 | 2328899.69 | 14.00 | 0.00 |
| | | | | | | | | | | | 6211534.83 | 2328899.68 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | 6210820.63 | 2328906.70 | 14.00 | 0.00 |
| | | | | | | | | | | | 6210742.97 | 2328907.15 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | 6210705.92 | 2328906.71 | 14.00 | 0.00 |
| | | | | | | | | | | | 6210578.02 | 2328907.15 | 14.00 | 0.00 |
| | | | | | | | | | | | 6210574.49 | 2328522.13 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | 6210575.38 | 2328483.31 | 14.00 | 0.00 |
| | | | | | | | | | | | 6210567.88 | 2327644.90 | 14.00 | 0.00 |
| | | | | | | | | | | | 6210624.33 | 2327645.78 | 14.00 | 0.00 |
| | | | | | | | | | П | | 6210623.01 | 2327505.53 | 14.00 | 0.00 |
| | | | | | | | | | | | 6210694.46 | 2327505.09 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | 6210804.14 | 2327506.61 | 14.00 | 0.00 |
| | | | | | | | | | | | 6210727.09 | 2327506.85 | 14.00 | 0.00 |

Building(s)

| Name | M. | ID | RB | Residents | Absorption | Height | | | Coordinat | es | |
|----------|----|---------------|----|-----------|------------|--------|---|------------|------------|-------|--------|
| | | | | | | Begin | | х | у | Z | Ground |
| | | | | | | (ft) | | (ft) | (ft) | (ft) | (ft) |
| BUILDING | | BUILDING00001 | х | 0 | | 45.00 | а | 6210822.62 | 2329076.35 | 45.00 | 0.00 |
| | | | | | | | | 6211537.19 | 2329071.36 | 45.00 | 0.00 |
| | | | | | | | | 6211515.57 | 2327497.42 | 45.00 | 0.00 |
| | | | | | | | П | 6211567.63 | 2327497.37 | 45.00 | 0.00 |
| | | | | | | | | 6211562.59 | 2327327.89 | 45.00 | 0.00 |
| | | | | | | | | 6210755.80 | 2327339.03 | 45.00 | 0.00 |
| | | | | | | | П | 6210754.57 | 2327507.32 | 45.00 | 0.00 |
| | | | | | | | | 6210804.14 | 2327506.61 | 45.00 | 0.00 |
| BUILDING | | BUILDING00002 | х | 0 | | 45.00 | а | 6209374.90 | 2329628.16 | 45.00 | 0.00 |
| | | | | | | | | 6210206.73 | 2329622.16 | 45.00 | 0.00 |
| | | | | | | | | 6210207.93 | 2329500.93 | 45.00 | 0.00 |
| | | | | | | | | 6210145.51 | 2329498.53 | 45.00 | 0.00 |
| | | | | | | | | 6210137.11 | 2328721.91 | 45.00 | 0.00 |

| Name | M. | ID | RB | Residents | Absorption | Height | t | | Coordinat | es | |
|----------|----|---------------|----|-----------|------------|--------|---|------------|------------|-------|--------|
| | | | | | | Begin | | х | у | Z | Ground |
| | | | | | | (ft) | | (ft) | (ft) | (ft) | (ft) |
| | | | | | | | | 6210200.73 | 2328720.71 | 45.00 | 0.00 |
| | | | | | | | | 6210198.33 | 2328600.68 | 45.00 | 0.00 |
| | | | | | | | | 6209366.50 | 2328607.88 | 45.00 | 0.00 |
| | | | | | | | | 6209367.70 | 2328726.71 | 45.00 | 0.00 |
| | | | | | | | | 6209427.72 | 2328727.91 | 45.00 | 0.00 |
| | | | | | | | | 6209432.52 | 2329506.93 | 45.00 | 0.00 |
| | | | | | | | | 6209374.90 | 2329506.93 | 45.00 | 0.00 |
| BUILDING | | BUILDING00003 | х | 0 | | 45.00 | a | 6212013.87 | 2328325.34 | 45.00 | 0.00 |
| | | | | | | | | 6212847.27 | 2328325.34 | 45.00 | 0.00 |
| | | | | | | | | 6212847.27 | 2328201.61 | 45.00 | 0.00 |
| | | | | | | | | 6212784.90 | 2328202.63 | 45.00 | 0.00 |
| | | | | | | | | 6212785.92 | 2327481.71 | 45.00 | 0.00 |
| | | | | | | | | 6212846.25 | 2327479.67 | 45.00 | 0.00 |
| | | | | | | | | 6212846.25 | 2327360.03 | 45.00 | 0.00 |
| | | | | | | | | 6212011.82 | 2327359.00 | 45.00 | 0.00 |
| | | | | | | | | 6212012.85 | 2327482.74 | 45.00 | 0.00 |
| | | | | | | | | 6212075.22 | 2327483.76 | 45.00 | 0.00 |
| | | | | | | | | 6212073.18 | 2328204.68 | 45.00 | 0.00 |
| | | | | | | | | 6212014.89 | 2328205.70 | 45.00 | 0.00 |

APPENDIX 9.3:

CADNAA SP OPERATIONAL NOISE MODEL INPUTS





12991 - Bloomington Business Park Specific Plan- PLD CadnaA Noise Prediction Model: 12991_04_SP.cna

Date: 03.05.21 Analyst: S. Shami

Calculation Configuration

| Configurat | ion |
|--------------------------------------|--------------------------------|
| Parameter | Value |
| General | |
| Country | (user defined) |
| Max. Error (dB) | 0.00 |
| Max. Search Radius (#(Unit,LEN)) | 2000.01 |
| Min. Dist Src to Rcvr | 0.00 |
| Partition | |
| Raster Factor | 0.50 |
| Max. Length of Section (#(Unit,LEN)) | 999.99 |
| Min. Length of Section (#(Unit,LEN)) | 1.01 |
| Min. Length of Section (%) | 0.00 |
| Proj. Line Sources | On |
| Proj. Area Sources | On |
| Ref. Time | |
| Reference Time Day (min) | 960.00 |
| Reference Time Night (min) | 480.00 |
| Daytime Penalty (dB) | 0.00 |
| Recr. Time Penalty (dB) | 5.00 |
| Night-time Penalty (dB) | 10.00 |
| DTM | |
| Standard Height (m) | 0.00 |
| Model of Terrain | Triangulation |
| Reflection | |
| max. Order of Reflection | 2 |
| Search Radius Src | 100.00 |
| Search Radius Rcvr | 100.00 |
| Max. Distance Source - Rcvr | 1000.00 1000.00 |
| Min. Distance Rvcr - Reflector | 1.00 1.00 |
| Min. Distance Source - Reflector | 0.10 |
| Industrial (ISO 9613) | |
| Lateral Diffraction | some Obj |
| Obst. within Area Src do not shield | On |
| Screening | Incl. Ground Att. over Barrier |
| | Dz with limit (20/25) |
| Barrier Coefficients C1,2,3 | 3.0 20.0 0.0 |
| Temperature (#(Unit,TEMP)) | 10 |
| rel. Humidity (%) | 70 |
| Ground Absorption G | 0.50 |
| Wind Speed for Dir. (#(Unit,SPEED)) | 3.0 |
| Roads (RLS-90) | |
| Strictly acc. to RLS-90 | |
| Railways (FTA/FRA) | |
| Aircraft (???) | |
| Strictly acc. to AzB | |

Receiver Noise Levels

| Name | М. | ID | | Level Lr | | Lir | nit. Val | ue | | Land | Use | Height | | Co | oordinates | |
|-----------|----|-------|-------|----------|-------|-------|----------|-------|------|------|------------|--------|---|------------|------------|------|
| | | | Day | Night | CNEL | Day | Night | CNEL | Туре | Auto | Noise Type | | | Х | Υ | Z |
| | | | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | | | | (ft) | | (ft) | (ft) | (ft) |
| RECEIVERS | | SP-R1 | 47.8 | 46.7 | 53.1 | 71.0 | 77.0 | 0.0 | | | | 5.00 | а | 6208192.26 | 2328225.78 | 5.00 |
| RECEIVERS | | SP-R2 | 50.7 | 49.6 | 56.0 | 61.0 | 57.0 | 0.0 | | | | 5.00 | а | 6208450.35 | 2329710.72 | 5.00 |
| RECEIVERS | | SP-R3 | 50.3 | 48.9 | 55.4 | 70.0 | 65.0 | 0.0 | | | | 5.00 | а | 6208867.02 | 2329868.27 | 5.00 |
| RECEIVERS | | SP-R4 | 52.7 | 51.4 | 57.9 | 75.0 | 73.0 | 0.0 | | | | 5.00 | а | 6211089.75 | 2329847.87 | 5.00 |
| RECEIVERS | | SP-R5 | 51.9 | 50.5 | 56.9 | 59.0 | 56.0 | 0.0 | | | | 5.00 | а | 6211837.36 | 2329506.94 | 5.00 |
| RECEIVERS | | SP-R6 | 55.8 | 54.7 | 61.1 | 57.0 | 55.0 | 0.0 | | | | 5.00 | а | 6209946.53 | 2327971.36 | 5.00 |

Point Source(s)

| Name | M. | ID | R | esult. PW | L | | Lw/L | i | Оре | erating Ti | me | K0 | Height | : | C | oordinates | |
|-------------|----|---------|-------|-----------|-------|------|-------|-------|--------|------------|-------|------|--------|---|------------|------------|------|
| | | | Day | Evening | Night | Туре | Value | norm. | Day | Special | Night | | | | Х | Υ | Z |
| | | | (dBA) | (dBA) | (dBA) | | | dB(A) | (min) | (min) | (min) | (dB) | (ft) | | (ft) | (ft) | (ft) |
| POINTSOURCE | | TRASH13 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6211688.45 | 2328878.34 | 5.00 |
| POINTSOURCE | | TRASH12 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | a | 6210658.65 | 2327526.87 | 5.00 |
| POINTSOURCE | | TRASH11 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6211665.88 | 2327525.09 | 5.00 |
| POINTSOURCE | | TRASH10 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | a | 6210366.78 | 2329479.02 | 5.00 |
| POINTSOURCE | | TRASH09 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6209205.71 | 2329489.25 | 5.00 |
| POINTSOURCE | | TRASH08 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6209200.60 | 2328745.14 | 5.00 |
| POINTSOURCE | | TRASH07 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6210364.59 | 2328733.46 | 5.00 |
| POINTSOURCE | | TRASH06 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6210613.41 | 2328885.00 | 5.00 |
| POINTSOURCE | | TRASH05 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6212990.18 | 2328143.99 | 5.00 |
| POINTSOURCE | | TRASH04 | 89.0 | 89.0 | 89.0 | Lw | 89.0 | | 150.00 | 0.00 | 90.00 | 0.0 | 5.00 | а | 6212990.18 | 2327537.70 | 5.00 |

| PONTSOUNCE Mayors Sept | Name | M. | ID | R | esult. PW | 'L | | Lw/L | i | Оре | erating Ti | ime | КО | Height | 1 | Co | oordinates | |
|--|-------------|----|------------|------|-----------|-------|------|-------|-------|--------|------------|--------|-----|--------|---------------|------------|------------|-------|
| PONTSOUNCE TAMSON SO SO SO SO SO SO SO | | | | | Evening | Night | Туре | Value | | Day | Special | Night | | | | | Υ | _ |
| PONTSOUNCE Mayors Sept | | | | | | | | | dB(A) | | | · · | | | _ | | | |
| POINTSQUIET MASSON S90 | | | | | | | | | | | | | | | - | | | 5.00 |
| POINTSCUIRGE ACQUIRGE ACQUI | | | | | | | | | | | | | | | \rightarrow | | | |
| Points | | | | | | | | | | | | | | | \dashv | | | 50.00 |
| PONTSOURCE CAOS 88.9 8 | | | | | | | | | | | | | | | - | | | 50.00 |
| POMPSIGNER ACCC ASS AS | POINTSOURCE | | AC03 | 88.9 | 88.9 | 88.9 | Lw | 88.9 | | 585.00 | 0.00 | 252.00 | 0.0 | 5.00 | g | 6210171.38 | 2329583.98 | 50.00 |
| NOMINISURE COT | POINTSOURCE | | AC04 | 88.9 | 88.9 | 88.9 | Lw | 88.9 | | 585.00 | 0.00 | 252.00 | 0.0 | 5.00 | g | 6209410.74 | 2329591.72 | 50.00 |
| POMPSOUNCE CAOP | POINTSOURCE | | AC05 | 88.9 | | 88.9 | Lw | | | 585.00 | 0.00 | 252.00 | 0.0 | 5.00 | g | 6212823.39 | 2327387.72 | 50.00 |
| POINTSUURCE ACOB 889 8 | | | | | | | | | | | | | | | - | | | 50.00 |
| POINTSUREEL ACOB 88.9 | | | | | | | | | | | | | | | \neg | | | |
| POINTSURCE AC10 | | | | | | | | | | | | | | | - | | | |
| POINTSURECE AC11 | | | | | | | | | | | | | | | - | | | 50.00 |
| POINTSURCE ARANCI 37.8 47.8 57.8 W 47.8 0.0000 0.00 5.000 0.00 5.000 0.005 5.000 0.0005 5.000 5.0000 5 | | | AC11 | 88.9 | 88.9 | 88.9 | Lw | 88.9 | | 585.00 | 0.00 | 252.00 | 0.0 | | - | 6210780.79 | 2327383.92 | 50.00 |
| POINTSURCE PARKOI 87.8 | POINTSOURCE | | AC12 | 88.9 | 88.9 | 88.9 | Lw | 88.9 | | 585.00 | 0.00 | 252.00 | 0.0 | 5.00 | g | 6211539.14 | 2327369.27 | 50.00 |
| PARTICIDADE PARTICIDA PARTICIDA R.7.8 W. 87.8 W. 87.8 W. 97.8 PARTICIDADE PARTICID | POINTSOURCE | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| PARTICULATE PARTICULATE PARTICULATE ST.8 | | | | | | | | | | | | | | | - | | | 5.00 |
| PANTSUREC PANTOS 87.8 87.8 87.8 1.0 87.8 1.0 90.00 0.0 50.00 0.0 50.00 6.2109.676 222915.56 5.0 | | | | | | | | | | | | | | | _ | | | 5.00 |
| POINTSCURCE PARKES 87.8 90.00 0.0 50.00 0.0 | | | | | | | | | | | | | | | \rightarrow | | | |
| POINTSOURCE PARKO 87.8 87.8 87.8 14 87.8 90.00 0.0 50.00 0.0 20.00 2 | | | | | | | | | | | | | | | \dashv | | | 5.00 |
| PAMISOURCE PARICIA 87.8 87.8 87.8 W 87.8 000.00 0.00 5.00 0.00 5.00 0.00 2.000 2 | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARKIS 87.8 | | | | | | | Lw | 87.8 | | | | | 0.0 | | \rightarrow | | 2329027.04 | 5.00 |
| POINTSOURCE PARKI1 87.8 87.8 87.8 W 87.8 90.00 0.00 5.00 5.00 6.20104.04 223855.21 5.0 POINTSOURCE PARKI1 87.8 87.8 87.8 W 87.8 90.00 0.00 54.00 0.0 5.00 6.20104.04 223855.21 5.0 POINTSOURCE PARKI1 87.8 87.8 87.8 W 87.8 90.00 0.00 54.00 0.0 5.00 6.201975.0 223855.77 5.0 POINTSOURCE PARKI1 87.8 87.8 87.8 W 87.8 90.00 0.00 54.00 0.0 5.00 6.201975.0 223855.77 5.0 POINTSOURCE PARKI1 87.8 87.8 87.8 W 87.8 90.00 0.00 54.00 0.0 5.00 6.201975.0 223855.77 5.0 POINTSOURCE PARKI1 87.8 87.8 87.8 W 87.8 90.00 0.00 54.00 0.0 5.00 6.201975.0 223856.00 5.0 POINTSOURCE PARKI1 87.8 87.8 87.8 W 87.8 90.00 0.00 54.00 0.0 5.00 6.201975.0 223856.00 5.0 POINTSOURCE PARKI1 87.8 87.8 87.8 W 87.8 90.00 0.00 54.00 0.0 5.00 6.20193.0 223856.00 5.0 POINTSOURCE PARKI2 87.8 87.8 87.8 W 87.8 90.00 0.0 54.00 0.0 5.00 6.20193.0 223856.00 5.0 POINTSOURCE PARKI2 87.8 87.8 87.8 W 87.8 90.00 0.0 54.00 0.0 5.00 6.20193.0 223950.20 223950.0 POINTSOURCE PARKI2 87.8 87.8 87.8 W 87.8 90.00 0.0 54.00 0.0 5.00 6.20193.0 223950.20 223950.0 POINTSOURCE PARKI2 87.8 87.8 87.8 W 87.8 90.00 0.0 54.00 0.0 5.00 6.20193.0 223950.0 223950.0 POINTSOURCE PARKI2 87.8 87.8 87.8 W 87.8 90.00 0.0 54.00 0.0 5.00 6.20193.0 223950.0 223950.0 223950.0 POINTSOURCE PARKI2 87.8 87.8 87.8 W 87.8 90.00 0.0 54.00 0.0 5.00 6.20193.0 223950.0 2239 | POINTSOURCE | | PARK09 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6210310.61 | 2328599.03 | 5.00 |
| POINTSOURCE | | | PARK10 | 87.8 | | | Lw | | | 900.00 | | 540.00 | | 5.00 | a | 6210313.19 | | 5.00 |
| POINTSOURCE PARK14 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209952.21 232855.77 5.0 POINTSOURCE PARK16 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209952.32 322855.77 5.0 POINTSOURCE PARK16 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209952.32 322855.77 5.0 POINTSOURCE PARK17 87.8 87.8 S7.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209952.32 322855.07 5.0 POINTSOURCE PARK18 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620993.02 232856.00 5.0 POINTSOURCE PARK18 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620932.02 232856.00 5.0 POINTSOURCE PARK18 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620932.02 232862.66 5.0 POINTSOURCE PARK20 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620932.02 232862.66 5.0 POINTSOURCE PARK21 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620932.02 232862.66 5.0 POINTSOURCE PARK21 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620932.02 232862.66 5.0 POINTSOURCE PARK21 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620935.95 2329658.75 5.0 POINTSOURCE PARK22 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620995.95 2329658.75 5.0 POINTSOURCE PARK23 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620995.95 2329658.75 5.0 POINTSOURCE PARK23 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620995.95 2329658.75 5.0 POINTSOURCE PARK23 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620995.95 2329658.75 5.0 POINTSOURCE PARK24 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620995.95 2329668.75 5.0 POINTSOURCE PARK24 87.8 87.8 | | | | | | | | | | | | | | | - | | | 5.00 |
| POINTSOURCE PARK16 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209517.00 3238550.35 5.00 POINTSOURCE PARK16 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209527.33 3238557.77 5.00 POINTSOURCE PARK17 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209527.33 2328557.07 5.00 POINTSOURCE PARK17 87.8 87.8 S7.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209527.33 2328556.00 5.00 POINTSOURCE PARK18 87.8 87.8 S7.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209543.37 232856.00 5.00 POINTSOURCE PARK18 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6201623.00 232962.60 5.00 POINTSOURCE PARK21 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6201623.00 232962.60 5.00 POINTSOURCE PARK22 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6201623.00 2329656.18 5.00 POINTSOURCE PARK22 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6201623.00 2329658.75 5.00 POINTSOURCE PARK24 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6201623.00 2329658.75 5.00 POINTSOURCE PARK25 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209647.96 2329663.71 5.00 POINTSOURCE PARK26 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209647.96 2329663.71 5.00 POINTSOURCE PARK26 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209647.96 2329663.71 5.00 POINTSOURCE PARK26 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209547.96 2329663.71 5.00 POINTSOURCE PARK26 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209547.96 2329663.71 5.00 POINTSOURCE PARK26 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5. | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARKES 87.8 87.8 L. 87.8 L. 87.8 900.00 0.00 540.00 0.0 5.00 a 6209542.24 3238557.07 5.0 POINTSOURCE PARKES 87.8 87.8 87.8 L. 87.8 900.00 0.00 540.00 0.0 5.00 a 6209542.24 3238570.66 5.0 POINTSOURCE PARKES 87.8 87.8 87.8 L. 87.8 900.00 0.00 540.00 0.0 5.00 a 6209542.24 323856.67 5.0 POINTSOURCE PARKES 87.8 87.8 L. 87.8 900.00 0.00 540.00 0.0 5.00 a 620953.26 232866.67 3.0 POINTSOURCE PARKES 87.8 87.8 L. 87.8 900.00 0.00 540.00 0.0 5.00 a 620953.26 232866.67 3.0 POINTSOURCE PARKES 87.8 87.8 L. 87.8 900.00 0.00 540.00 0.0 5.00 a 620953.26 232866.67 3.0 POINTSOURCE PARKES 87.8 87.8 L. 87.8 900.00 0.00 540.00 0.0 5.00 a 621030.92 232970.00 3.0 POINTSOURCE PARKES 87.8 87.8 L. 87.8 900.00 0.00 540.00 0.0 5.00 a 621030.92 232956.18 3.0 POINTSOURCE PARKES 87.8 87.8 L. 87.8 900.00 0.00 540.00 0.0 5.00 a 621030.95 2329656.18 3.0 POINTSOURCE PARKES 87.8 87.8 L. 87.8 900.00 0.00 540.00 0.0 5.00 a 620955.95 2329658.75 3.0 POINTSOURCE PARKES 87.8 87.8 L. 87.8 900.00 0.00 540.00 0.0 5.00 a 620991.75 232966.18 3.0 POINTSOURCE PARKES 87.8 87.8 L. 87.8 900.00 0.00 540.00 0.0 5.00 a 620991.75 232966.18 3.0 POINTSOURCE PARKES 87.8 87.8 L. 87.8 900.00 0.00 540.00 0.0 5.00 a 620991.75 232966.19 3.0 POINTSOURCE PARKES 87.8 87.8 L. 87.8 900.00 0.00 540.00 0.0 5.00 a 620951.75 232966.37 3.0 POINTSOURCE PARKES 87.8 87.8 87.8 L. 87.8 900.00 0.00 540.00 0.0 5.00 a 620951.75 232966.37 3.0 POINTSOURCE PARKES 87.8 87.8 87.8 L. 87.8 900.00 0.00 540.00 0.0 5.00 a 620951.75 232966.37 3.0 POINTSOURCE PARKES 87.8 87.8 87.8 L. 87.8 | | | | | | | | | | | | | | | \dashv | | | |
| POINTSOURCE PARKE 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 6.00943, 24 2325570.66 5.0 POINTSOURCE PARKE 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 6.00930.26 2325666.07 5.0 POINTSOURCE PARKE 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 6.00930.26 2325666.07 5.0 POINTSOURCE PARKE 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 6.00932.06 232566.07 5.0 POINTSOURCE PARKE 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 6.0032.09 232566.07 5.0 POINTSOURCE PARKE 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 6.0032.09 232566.18 5.0 POINTSOURCE PARKE 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 6.0032.09 232566.18 5.0 POINTSOURCE PARKE 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 6.0032.09 232566.18 5.0 POINTSOURCE PARKE 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 6.0032.09 523566.18 5.0 POINTSOURCE PARKE 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 6.0036.09 523566.18 5.0 POINTSOURCE PARKE 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 6.00366.19 523566.75 5.0 POINTSOURCE PARKE 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 6.00366.19 523566.75 5.0 POINTSOURCE PARKE 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 6.00366.19 523566.75 5.0 POINTSOURCE PARKE 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 6.00366.19 5.00 | | | | | | | | | | | | | | | \rightarrow | | | |
| POINTSOURCE PARKI7 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 5.00233.25 232566.07 5.00 FOINTSOURCE PARKI8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 5.00233.25 232566.07 5.00 FOINTSOURCE PARKI9 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 5.0033.35 232562.26 5.00 FOINTSOURCE PARK20 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 5.0033.35 232562.26 5.00 FOINTSOURCE PARK21 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 5.0033.35 232562.26 5.00 FOINTSOURCE PARK21 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 5.0033.35 232562.65 5.00 FOINTSOURCE PARK22 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 5.0033.35 232562.65 5.00 FOINTSOURCE PARK22 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 5.003566.197 232566.17 5.00 FOINTSOURCE PARK24 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 5.003566.197 232566.197 5.00 FOINTSOURCE PARK26 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 5.003566.197 232566.37 5.00 FOINTSOURCE PARK26 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK20 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 \$ \$ \$ \$ \$ \$ \$ \$ \$ | | | | | | | | | | | | | - | | \dashv | | | 5.00 |
| POINTSOURCE PARIZI 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6210320.92 232970.01 5.0 POINTSOURCE PARIZI 87.8 87.8 87.8 87.8 900.00 0.00 540.00 0.0 5.00 a 6210140.44 232955618 5.0 POINTSOURCE PARIZI 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620959595 2329568.75 5.0 POINTSOURCE PARIZI 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620995995 2329568.75 5.0 POINTSOURCE PARIZI 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620995995 2329568.75 5.0 POINTSOURCE PARIZI 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620995195 2329568.75 5.0 POINTSOURCE PARIZI 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620995495 2329668.91 5.0 POINTSOURCE PARIZI 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620964796 2329663.91 5.0 POINTSOURCE PARIZI 87.8 EW 87.8 900.00 0.00 540.00 0.0 5.00 a 620964796 2329663.91 5.0 POINTSOURCE PARIZI 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6209563.78 2329666.91 5.0 POINTSOURCE PARIZI 87.8 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209563.78 232965555 5.0 POINTSOURCE PARIXI 87.8 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209563.78 2329653.55 5.0 POINTSOURCE PARIXI 87.8 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 6212267.79 2327320.13 5.0 POINTSOURCE PARIXI 87.8 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 6212277.94 2327317.55 5.0 POINTSOURCE PARIXI 87.8 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 6212277.94 2327317.55 5.0 POINTSOURCE PARIXI 87.8 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 6212277.57 2327320.13 5.0 POINTSOUR | POINTSOURCE | | PARK18 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6209230.26 | 2328666.07 | 5.00 |
| POINTSOURCE PARIC2 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6210140.44 2329556.18 5.0 POINTSOURCE PARIC2 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6210140.44 2329556.18 5.0 POINTSOURCE PARIC2 87.8 87.8 S7.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 620995995 2329565.75 5.0 POINTSOURCE PARIC2 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 620985995 2329565.75 5.0 POINTSOURCE PARIC2 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209861.97 2329565.75 5.0 POINTSOURCE PARIC2 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209547.96 2329566.91 5.0 POINTSOURCE PARIC2 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209547.96 2329566.91 5.0 POINTSOURCE PARIC2 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209547.12 2329566.91 5.0 POINTSOURCE PARIC3 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209557.71 2329566.91 5.0 POINTSOURCE PARIC3 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209557.71 2329565.91 5.0 POINTSOURCE PARIC3 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 620956.82 2329707.74 5.0 POINTSOURCE PARIC3 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 620956.82 2329707.74 5.0 POINTSOURCE PARIC3 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 6202185.71 232731.75 5.0 POINTSOURCE PARIC3 87.8 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 6202187.51 232731.75 5.0 POINTSOURCE PARIC3 87.8 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 6212185.12 232731.75 5.0 POINTSOURCE PARIC3 87.8 87.8 87.8 R. W 87.8 900.00 0.00 540.00 0.0 5.00 a 6212185.70 232313.75 5.0 POINTSOURCE PAR | POINTSOURCE | | PARK19 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6210323.50 | 2329622.66 | 5.00 |
| POINTSOURCE PARIC2 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210029.56 2329656.18 5.00 5.00 5.00 a 6210029.56 2329656.18 5.00 5.00 a 6210029.56 2329656.18 5.00 5.00 a 6210029.56 2329658.75 5.00 5.00 a 6209861.97 2329668.91 5.00 5.00 a 6209861.97 5.00 5.00 a 62098861.97 5.00 5.00 a 6209861.97 5.00 5.00 a 620986 | | | | | | | Lw | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK23 87.8 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6209959.95 2329658.75 5.0 POINTSOURCE PARK26 87.8 87.8 87.8 87.8 87.8 900.00 0.00 540.00 0.0 5.00 a 6209961.97 2329668.91 5.0 POINTSOURCE PARK26 87.8 87.8 87.8 87.8 87.8 900.00 0.00 540.00 0.0 5.00 a 6209957.96 2329663.91 5.0 POINTSOURCE PARK27 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6209957.76 2329663.91 5.0 POINTSOURCE PARK27 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6209957.77 2329666.91 5.0 POINTSOURCE PARK28 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6209313.77 2329666.91 5.0 POINTSOURCE PARK29 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6209313.77 2329666.91 5.0 POINTSOURCE PARK30 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6209313.77 2329666.91 5.0 POINTSOURCE PARK30 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6209356.78 2329707.74 5.0 POINTSOURCE PARK30 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212666.90 2327320.13 5.0 POINTSOURCE PARK31 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212676.70 2327310.13 5.0 POINTSOURCE PARK31 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212266.72 2327311.75 5.0 POINTSOURCE PARK31 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212266.72 2327311.75 5.0 POINTSOURCE PARK33 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212775.75 2329813.95 5.0 POINTSOURCE PARK33 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212775.75 2329813.95 5.0 POINTSOURCE PARK33 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.0 | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK24 87.8 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6209961-97 2329658.75 5.00 POINTSOURCE PARK25 87.8 87.8 87.8 87.8 87.8 900.00 0.00 540.00 0.0 5.00 a 6209971-75 2329663.91 5.00 POINTSOURCE PARK26 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6209957.71 2329663.91 5.00 POINTSOURCE PARK27 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6209957.71 2329663.91 5.00 POINTSOURCE PARK28 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6209957.71 2329663.91 5.00 POINTSOURCE PARK29 87.8 87.8 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 620993.77 2329663.91 5.00 POINTSOURCE PARK29 87.8 87.8 87.8 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 620993.77 2329663.91 5.00 POINTSOURCE PARK29 87.8 87.8 87.8 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6209263.72 232955.55 5.00 POINTSOURCE PARK23 87.8 87.8 87.8 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6212069.09 2327320.13 5.00 POINTSOURCE PARK23 87.8 87.8 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6212266.97 2327320.13 5.00 POINTSOURCE PARK23 87.8 87.8 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6212266.72 2327317.55 5.00 POINTSOURCE PARK23 87.8 87.8 87.8 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6212266.72 2327317.55 5.00 POINTSOURCE PARK23 87.8 87.8 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 6212666.72 2327317.55 5.00 POINTSOURCE PARK23 87.8 87.8 87.8 87.8 87.8 87.8 W 87.8 900.00 0.00 540.00 0.0 5.00 a 62126674.72 2327317.55 5.00 POINTSOURCE PARK23 87.8 87.8 87.8 87.8 | | | | | | | | | | | | | | | _ | | | |
| POINTSOURCE PARK25 87.8 87.8 87.8 87.8 1.8 87.8 1.8 900.00 0.00 540.00 0.0 5.00 a 6209717.58 2329663.91 5.00 POINTSOURCE PARK26 87.8 87.8 87.8 1.8 87.8 900.00 0.00 540.00 0.0 5.00 a 6209577.13 2329663.91 5.00 POINTSOURCE PARK27 87.8 87.8 87.8 87.8 87.8 87.8 900.00 0.00 540.00 0.0 5.00 a 6209587.71 2329663.91 5.00 POINTSOURCE PARK28 87.8 8 | | | | | | | | | | | | | | | \rightarrow | | | _ |
| POINTSOURCE PARR26 87.8 87.8 87.8 87.8 1.4 87.8 900.00 0.00 540.00 0.0 5.00 a 6209647.96 2329663.91 5.0 POINTSOURCE PARR27 87.8 | | | | | | | | | | | | | | | \dashv | | | 5.00 |
| POINTSOURCE PARK28 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6209431.37 2329666.49 5.00 POINTSOURCE PARK29 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6209258.78 2329635.55 5.50 POINTSOURCE PARK30 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212669.09 232732.013 5.00 POINTSOURCE PARK31 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 62122669.09 232732.013 5.00 POINTSOURCE PARK32 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 62122669.09 232732.013 5.00 POINTSOURCE PARK33 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 62122669.09 232732.013 5.00 POINTSOURCE PARK33 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212266.72 232731.55 5.00 POINTSOURCE PARK33 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212667.20 232731.55 5.00 POINTSOURCE PARK35 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212766.72 232731.55 5.00 POINTSOURCE PARK36 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212766.72 232731.55 5.00 POINTSOURCE PARK36 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212765.75 232731.50 5.00 POINTSOURCE PARK36 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212765.75 2327320.13 5.00 POINTSOURCE PARK36 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212667.20 232731.55 5.00 POINTSOURCE PARK36 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212667.20 232387.50 5.00 POINTSOURCE PARK36 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212667.20 2328972.00 5.00 POINTSOURCE PARK41 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212667.20 2328390.50 5.00 POINTSOURCE PARK46 | | | | | 87.8 | 87.8 | Lw | 87.8 | | | 0.00 | | 0.0 | 5.00 | а | | | 5.00 |
| POINTSOURCE PARK29 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6209263.78 2329635.55 5.00 POINTSOURCE PARK31 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6209258.62 2329707.74 5.00 POINTSOURCE PARK31 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 621269.90 2327320.13 5.00 POINTSOURCE PARK31 87.8 87.8 R7.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 621269.90 2327320.13 5.00 POINTSOURCE PARK33 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212267.91 232731.75 5.00 POINTSOURCE PARK34 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212266.72 232731.75 5.00 POINTSOURCE PARK35 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212664.70 232731.75 5.00 POINTSOURCE PARK35 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212664.70 232731.75 5.00 POINTSOURCE PARK36 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212664.70 232731.55 5.00 POINTSOURCE PARK37 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212664.70 232731.55 5.00 POINTSOURCE PARK38 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212664.70 232731.55 5.00 POINTSOURCE PARK38 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211664.70 232731.55 5.00 POINTSOURCE PARK38 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211664.80 232829.93 5.00 POINTSOURCE PARK48 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211664.80 | POINTSOURCE | | PARK27 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6209557.71 | 2329663.91 | 5.00 |
| POINTSOURCE PARK30 87.8 | POINTSOURCE | | PARK28 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6209431.37 | 2329666.49 | 5.00 |
| POINTSOURCE PARK31 87.8 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212069.09 2327320.13 5.00 5.00 5.00 a 6212185.12 2327320.13 5.00 5.00 a 5.00 a 6212277.94 5.00 5.00 a | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK32 87.8 87.8 87.8 87.8 87.8 87.8 87.8 87.8 87.8 900.00 0.00 540.00 0.0 5.00 a 6212185.12 2327320.13 5.00 POINTSOURCE PARK33 87.8 | | | | | | | | | | | | | | | \dashv | | | 5.00 |
| POINTSOURCE PARK31 87.8 87.8 87.8 87.8 87.8 87.8 87.8 87.8 87.8 900.00 0.00 540.00 0.0 5.00 a 6212277.94 2327317.55 5.00 | | | | | | | | | | | | | | | \rightarrow | | | |
| POINTSOURCE PARK34 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212566.72 2327314.98 5.00 5.00 5.00 a 5.0 | | | D 4 D 1/22 | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK35 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212664.70 2327317.55 5.00 5.00 5.00 a 5.0 | | | | | | | | | | | | | | | _ | | | 5.00 |
| POINTSOURCE PARK37 87.8 87.8 87.8 87.8 Lw 87.8 90.00 0.00 540.00 0.0 5.00 a 621299.90 2327451.63 5.00 POINTSOURCE PARK38 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211695.22 2328972.90 5.0 POINTSOURCE PARK40 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211696.88 2328978.05 5.0 POINTSOURCE PARK41 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211904.23 2328239.38 5.0 POINTSOURCE PARK41 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211904.23 2328239.38 5.0 POINTSOURCE PARK41 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211904.23 2328239.38 5.0 POINTSOURCE PARK42 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211904.23 2328230.38 5.0 POINTSOURCE PARK44 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212959.52 2328240.50 5.0 POINTSOURCE PARK44 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212959.52 2328240.50 5.0 POINTSOURCE PARK44 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212958.40 2328314.76 5.0 POINTSOURCE PARK44 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212779.52 2328360.88 5.0 POINTSOURCE PARK46 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212589.38 2328356.83 5.0 POINTSOURCE PARK47 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212589.38 2328358.63 5.0 POINTSOURCE PARK48 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212589.38 2328358.63 5.0 POINTSOURCE PARK48 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212589.38 2328358.63 5.0 POINTSOURCE PARK49 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212581.39 2328366.51 5.0 POINTSOURCE PARK49 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212581.99 2328366.51 5.0 POINTSOURCE PARK50 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212081.99 2328366.51 5.0 POINTSOURCE PARK51 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210642.78 2328984.64 5.0 POINTSOURCE PARK52 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210642.73 2328984.64 5.0 POINTSOURCE PARK54 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210642.73 2329159.7 | POINTSOURCE | | | | | | Lw | 87.8 | | 900.00 | | | 0.0 | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK38 87.8 87.8 87.8 87.8 Lw 87.8 90.00 0.00 540.00 0.0 5.00 a 6211695.22 2328972.90 5.00 POINTSOURCE PARK49 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 621168.88 2328978.05 5.00 POINTSOURCE PARK40 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211904.23 2328239.38 5.0 POINTSOURCE PARK41 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211904.23 2328320.38 5.0 POINTSOURCE PARK42 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212959.52 2328240.50 5.00 POINTSOURCE PARK43 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212959.52 2328340.50 5.0 POINTSOURCE PARK44 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212958.40 2328341.76 5.0 POINTSOURCE PARK44 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212779.52 2328360.88 5.0 POINTSOURCE PARK44 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212779.52 2328360.88 5.0 POINTSOURCE PARK46 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212779.52 2328360.88 5.0 POINTSOURCE PARK46 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212589.38 2328360.88 5.0 POINTSOURCE PARK47 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212589.38 2328358.63 5.0 POINTSOURCE PARK48 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212589.38 2328358.63 5.0 POINTSOURCE PARK48 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212282.24 2328363.13 5.0 POINTSOURCE PARK48 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 621228193.37 2328358.63 5.0 POINTSOURCE PARK51 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212081.99 2328365.51 5.0 POINTSOURCE PARK51 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212081.99 2328365.15 5.0 POINTSOURCE PARK51 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210642.78 2328984.64 5.0 POINTSOURCE PARK51 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210642.78 2328984.64 5.0 POINTSOURCE PARK51 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210642.78 2329159.70 5.0 POINTSOURCE PARK54 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 621064 | POINTSOURCE | | PARK36 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6212775.57 | 2327320.13 | 5.00 |
| POINTSOURCE PARK40 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211568.88 2328978.05 5.00 POINTSOURCE PARK41 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211904.23 2328239.38 5.00 POINTSOURCE PARK41 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211904.23 2328320.38 5.00 POINTSOURCE PARK42 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212959.52 2328240.50 5.00 POINTSOURCE PARK43 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212959.52 2328240.50 5.00 POINTSOURCE PARK44 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212959.52 2328240.50 5.00 POINTSOURCE PARK44 87.8 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212959.52 2328360.88 5.00 POINTSOURCE PARK44 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212579.52 2328360.88 5.00 POINTSOURCE PARK46 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212589.38 2328360.88 5.00 POINTSOURCE PARK47 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212589.38 2328360.88 5.00 POINTSOURCE PARK49 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212282.24 2328363.13 5.00 POINTSOURCE PARK49 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 62122819.37 2328365.35 5.00 POINTSOURCE PARK50 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212081.99 2328366.51 5.00 POINTSOURCE PARK50 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212064.78 2328984.64 5.00 POINTSOURCE PARK51 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212064.78 2328989.75 5.00 POINTSOURCE PARK51 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK41 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211904.23 2328239.38 5.00 5.00 5.00 6.00 5. | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK41 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211904.23 2328320.38 5.00 5.00 5.00 5.00 6. | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK42 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 621259.52 2328240.55 5.00 POINTSOURCE PARK44 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 621259.40 2328314.76 5.00 DOINTSOURCE PARK44 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212779.52 2328360.88 5.00 DOINTSOURCE PARK45 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 621258.38 232835.63 5.00 DOINTSOURCE PARK46 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 621258.38 2328356.38 5.00 DOINTSOURCE PARK48 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 621258.38 2328356.38 5.00 DOINTSOURCE PARK48 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 621258.38 2328356.33 5.00 DOINTSOURCE PARK48 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 621258.38 2328356.33 5.00 DOINTSOURCE PARK49 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 621258.38 2328356.33 5.00 DOINTSOURCE PARK49 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 621258.38 2328356.33 5.00 DOINTSOURCE PARK50 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212081.99 2328366.51 5.00 DOINTSOURCE PARK51 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210570.70 2328989.78 5.00 DOINTSOURCE PARK52 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210568.12 2329159.70 5.00 DOINTSOURCE PARK54 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210568.12 2329159.70 5.00 DOINTSOURCE PARK54 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210568.12 2329159.70 5.00 DOINTSOURCE PARK55 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210568.12 | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK44 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212958.40 2328314.76 5.00 5.00 5.00 a 5 | | | | | | | | | | | | | | | _ | | | 5.00 |
| POINTSOURCE PARK45 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212673.76 2328359.76 5.00 5.00 5.00 a 6212673.76 5.00 5.00 a 6.00 5.0 | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK46 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212589.38 2328360.88 5.00 5.00 5.00 a 6212589.38 2328358.63 5.00 5.00 5.00 a 6212589.38 5.00 5.00 5.00 a 6.00 | | | | | | | | | | | | | | | \rightarrow | 6212779.52 | | 5.00 |
| POINTSOURCE PARK47 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212508.38 2328358.63 5.00 | POINTSOURCE | | PARK45 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | | \rightarrow | 6212673.76 | 2328359.76 | 5.00 |
| POINTSOURCE PARK48 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212282.24 2328363.13 5.00 5.00 5.00 a 5.0 | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK50 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6212193.37 2328365.38 5.00 | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK51 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210642.78 2328984.64 5.00 5.00 5.00 a 6210642.78 2328984.64 5.00 5.00 5.00 a 6210642.78 5.00 5.00 a 6.00 5.00 5.00 a 6.00 5.00 5.00 a 6.00 5.00 5.00 5.00 a 6.00 5.00 5.00 5.00 a 6.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5 | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK51 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210642.78 2328984.64 5.0 POINTSOURCE PARK52 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210570.70 2328989.78 5.0 POINTSOURCE PARK54 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210570.70 2328989.78 5.0 POINTSOURCE PARK54 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210561.20 2329159.70 5.0 POINTSOURCE PARK55 87.8 87.8 1.w 87.8 900.00 0.00 540.00 0.0 5.00 a 6210568.12 2329159.70 5.0 POINTSOURCE PARK56 87.8 87.8 1.w 87. | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK52 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210570.70 2328989.78 5.00 5.00 5.00 a 6210570.70 5.00 5.00 a 6210570.70 5.00 a 6210570.70 5.00 a 6.00 5.00 5.00 a 6.00 5.00 5.00 a 6.00 5.00 5.00 a 6.00 5.00 5.00 5.00 5.00 a 6.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 | | | | | | | | | | | | | | | $\overline{}$ | | | 5.00 |
| POINTSOURCE PARK53 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210980.03 2329159.70 5.0 POINTSOURCE PARK54 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210761.20 2329159.70 5.0 POINTSOURCE PARK55 87.8 87.8 1.w 87.8 900.00 0.00 540.00 0.0 5.00 a 6210761.20 2329159.70 5.0 POINTSOURCE PARK56 87.8 87.8 1.w 87.8 900.00 0.00 540.00 0.0 5.00 a 6210811.64 2327315.51 5.0 POINTSOURCE PARK57 87.8 87.8 87.8 1.w 87.8 900.00 0.00 540.00 0.0 5.00 a 6210924.35 2327314.51 5.0 POINTSOURCE PARK58 87.8 87.8 Lw 87 | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK54 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6210761.20 2329159.70 5.0 POINTSOURCE PARK55 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6210568.12 2329159.70 5.0 POINTSOURCE PARK56 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6210811.64 2327315.51 5.0 POINTSOURCE PARK57 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6210924.35 2327314.51 5.0 POINTSOURCE PARK58 87.8 87.8 1.W 87.8 900.00 0.00 540.00 0.0 5.00 a 6210924.35 2327314.01 5.0 POINTSOURCE PARK59 87.8 87.8 87 | | | | | | | | | | | | | | | _ | | | 5.00 |
| POINTSOURCE PARK56 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210811.64 2327315.51 5.0 POINTSOURCE PARK57 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210924.35 2327314.51 5.0 POINTSOURCE PARK58 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211093.65 2327314.01 5.0 POINTSOURCE PARK59 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211093.65 2327314.01 5.0 POINTSOURCE PARK60 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211099.90 2327313.51 5.0 POINTSOURCE PARK60 87.8 87.8 Lw< | | | PARK54 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | 540.00 | 0.0 | 5.00 | а | 6210761.20 | | 5.00 |
| POINTSOURCE PARK57 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6210924.35 2327314.51 5.0 POINTSOURCE PARK58 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211003.65 2327314.01 5.0 POINTSOURCE PARK59 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211099.90 2327313.51 5.0 POINTSOURCE PARK60 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211264.97 2327311.02 5.0 | | | | | | | Lw | | | | | | | | _ | | | 5.00 |
| POINTSOURCE PARK58 8.7.8 8.7.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6211003.65 2327314.01 5.0 POINTSOURCE PARK59 87.8 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6211099.90 2327313.51 5.0 POINTSOURCE PARK60 87.8 87.8 LW 87.8 900.00 0.00 540.00 0.0 5.00 a 6211264.97 2327311.02 5.0 | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK59 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211099.90 2327313.51 5.0 POINTSOURCE PARK60 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211264.97 2327311.02 5.0 | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| POINTSOURCE PARK60 87.8 87.8 87.8 Lw 87.8 900.00 0.00 540.00 0.0 5.00 a 6211264.97 2327311.02 5.00 | | | | | | | | | | | | | | | _ | | | 5.00 |
| | | | | | | | | | | | | | | | \rightarrow | | | 5.00 |
| | POINTSOURCE | | PARK61 | 87.8 | 87.8 | 87.8 | Lw | 87.8 | | 900.00 | 0.00 | | 0.0 | 5.00 | \rightarrow | 6211369.70 | 2327309.02 | 5.00 |
| | | | | | | | | | | | | | | | _ | | | 5.00 |

Urban Crossroads, Inc.

Line Source(s)

| Name | M. | ID | R | esult. PW | /L | R | esult. PW | L' | | Lw / Li | | Op | erating Ti | me | | Moving | Pt. Src | | Height |
|------------|----|-------|-------|-----------|-------|-------|-----------|-------|--------|---------|-------|-------|------------|-------|------|---------|---------|-------|--------|
| | | | Day | Evening | Night | Day | Evening | Night | Туре | Value | norm. | Day | Special | Night | | Number | | Speed | |
| | | | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | | | dB(A) | (min) | (min) | (min) | Day | Evening | Night | (mph) | (ft) |
| LINESOURCE | | DWY01 | 92.2 | 77.6 | 83.2 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY02 | 98.1 | 83.4 | 89.1 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY03 | 90.4 | 75.8 | 81.4 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY04 | 99.0 | 84.4 | 90.0 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY05 | 93.2 | 78.5 | 84.2 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY06 | 98.0 | 83.4 | 89.0 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY07 | 89.5 | 74.9 | 80.5 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY08 | 91.4 | 76.8 | 82.4 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY09 | 98.3 | 83.7 | 89.3 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY10 | 89.7 | 75.1 | 80.7 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY11 | 87.1 | 72.4 | 78.1 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY12 | 93.5 | 78.9 | 84.5 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY13 | 97.8 | 83.1 | 88.8 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY14 | 90.7 | 76.1 | 81.8 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY15 | 86.3 | 71.6 | 77.3 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY16 | 90.6 | 76.0 | 81.6 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY17 | 98.4 | 83.8 | 89.5 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY18 | 89.9 | 75.2 | 80.9 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |
| LINESOURCE | | DWY19 | 86.6 | 72.0 | 77.6 | 72.6 | 58.0 | 63.6 | PWL-Pt | 93.2 | | | | | 87.0 | 3.0 | 11.0 | 6.2 | 8 |

| LINESOURCE | | 115 80.0 | | 72.0 77.0 | 72.0 3 | 8.0 03.0 | F VVL-Ft |
|------------|-------|----------|---------|------------|------------|----------|----------|
| Name | ŀ | leight | | | Coordinat | es | |
| | Begin | End | | x | У | Z | Ground |
| | (ft) | (ft) | | (ft) | (ft) | (ft) | (ft) |
| LINESOURCE | 8.00 | a | | 6211736.63 | 2329095.90 | 8.00 | 0.00 |
| | | | | 6211631.45 | 2329092.28 | 8.00 | 0.00 |
| | | | \perp | 6211627.78 | 2328897.56 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | a | | 6211631.45 | 2329092.28 | 8.00 | 0.00 |
| | | | | 6210473.67 | 2329106.75 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | a | \perp | 6210724.54 | 2329103.62 | 8.00 | 0.00 |
| | | | | 6210722.08 | 2328904.54 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | a | | 6210706.48 | 2327508.89 | 8.00 | 0.00 |
| | | | 1 | 6210702.42 | 2327275.11 | 8.00 | 0.00 |
| | | | 1 | 6210706.91 | 2327263.64 | 8.00 | 0.00 |
| | | | | 6210714.39 | 2327257.16 | 8.00 | 0.00 |
| | | | \perp | 6210725.36 | 2327251.17 | 8.00 | 0.00 |
| | | | | 6210732.84 | 2327245.69 | 8.00 | 0.00 |
| | | | | 6211601.11 | 2327239.20 | 8.00 | 0.00 |
| | | | | 6211606.09 | 2327248.68 | 8.00 | 0.00 |
| | | | | 6211609.09 | 2327268.63 | 8.00 | 0.00 |
| | | | | 6211611.08 | 2327406.77 | 8.00 | 0.00 |
| | | | | 6211726.28 | 2327407.77 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | a | | 6212893.09 | 2328202.41 | 8.00 | 0.00 |
| | | | | 6212893.09 | 2328415.75 | 8.00 | 0.00 |
| | | | | 6213053.82 | 2328405.79 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | Π | 6212893.09 | 2328415.75 | 8.00 | 0.00 |
| | | | | 6212551.46 | 2328421.26 | 8.00 | 0.00 |
| | | | Τ | 6212351.99 | 2328421.26 | 8.00 | 0.00 |
| | | | | 6211965.17 | 2328421.26 | 8.00 | 0.00 |
| | | | | 6211965.22 | 2328203.92 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | a | Τ | 6211965.17 | 2328421.26 | 8.00 | 0.00 |
| | | | | 6211804.27 | 2328404.73 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | a | | 6212892.97 | 2327483.29 | 8.00 | 0.00 |
| | | | Τ | 6212893.09 | 2327384.24 | 8.00 | 0.00 |
| | | | | 6213044.57 | 2327389.64 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6212893.09 | 2327384.24 | 8.00 | 0.00 |
| | | | | 6212889.79 | 2327308.19 | 8.00 | 0.00 |
| | | | | 6212883.18 | 2327282.85 | 8.00 | 0.00 |
| | | | T | 6212867.75 | 2327272.93 | 8.00 | 0.00 |
| | | | T | 6212849.01 | 2327264.11 | 8.00 | 0.00 |
| | | | T | 6212008.15 | 2327264.11 | 8.00 | 0.00 |
| | | | T | 6211980.60 | 2327281.75 | 8.00 | 0.00 |
| | | | T | 6211966.27 | 2327302.68 | 8.00 | 0.00 |
| | | | T | 6211962.97 | 2327342.36 | 8.00 | 0.00 |
| | | | T | 6211963.93 | 2327482.19 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | a | T | 6211963.30 | 2327390.85 | 8.00 | 0.00 |
| | | | T | 6211795.45 | 2327389.75 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | T | 6211611.08 | 2327406.77 | 8.00 | 0.00 |
| | | | T | 6211612.44 | 2327498.72 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | T | 6209322.89 | 2328728.42 | 8.00 | 0.00 |
| | | | T | 6209325.54 | 2328509.96 | 8.00 | 0.00 |
| | | | t | 6209301.23 | 2328508.61 | 8.00 | 0.00 |
| | | | T | 6209268.81 | 2328520.77 | 8.00 | 0.00 |
| | | | t | 6209249.89 | 2328535.63 | 8.00 | 0.00 |
| | | | t | 6209221.53 | 2328555.89 | 8.00 | 0.00 |
| | | | | | | | |

Urban Crossroads, Inc.

| Name | ŀ | lei | ght | | Coordinat | es | |
|------------|-------|-----|------|------------|------------|------|--------|
| | Begin | | End | x | у | z | Ground |
| | (ft) | | (ft) | (ft) | (ft) | (ft) | (ft) |
| | | | | 6209186.40 | 2328577.51 | 8.00 | 0.00 |
| | | | | 6209159.38 | 2328577.51 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6209325.54 | 2328509.96 | 8.00 | 0.00 |
| | | | | 6210406.26 | 2328505.91 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6210248.25 | 2328720.85 | 8.00 | 0.00 |
| | | | | 6210242.79 | 2328506.52 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6210570.36 | 2328504.58 | 8.00 | 0.00 |
| | | | | 6210494.07 | 2328501.86 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6209167.05 | 2329560.99 | 8.00 | 0.00 |
| | | | | 6209286.37 | 2329562.31 | 8.00 | 0.00 |
| | | | | 6209320.14 | 2329562.31 | 8.00 | 0.00 |
| | | | | 6209320.12 | 2329507.20 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6209320.14 | 2329562.31 | 8.00 | 0.00 |
| | | | | 6209324.19 | 2329667.68 | 8.00 | 0.00 |
| | | | | 6209329.60 | 2329693.35 | 8.00 | 0.00 |
| | | | | 6209341.76 | 2329701.45 | 8.00 | 0.00 |
| | | | | 6209355.26 | 2329709.56 | 8.00 | 0.00 |
| | | | | 6209367.42 | 2329717.66 | 8.00 | 0.00 |
| | | | | 6210211.73 | 2329714.96 | 8.00 | 0.00 |
| | | | | 6210230.64 | 2329709.56 | 8.00 | 0.00 |
| | | | | 6210241.45 | 2329693.35 | 8.00 | 0.00 |
| | | | | 6210252.26 | 2329678.49 | 8.00 | 0.00 |
| | | | | 6210256.31 | 2329662.28 | 8.00 | 0.00 |
| | | | | 6210257.67 | 2329498.63 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6210257.22 | 2329552.85 | 8.00 | 0.00 |
| | | | | 6210431.60 | 2329551.51 | 8.00 | 0.00 |
| LINESOURCE | 8.00 | а | | 6212432.65 | 2327264.11 | 8.00 | 0.00 |
| | | | | 6212432.67 | 2327181.44 | 8.00 | 0.00 |

Area Source(s)

| 7.1. Cu 300 | | - (3) | | | | | | | | | | | | | |
|-------------|----|------------------|-------|-----------|-------|-------|-----------|-------|------|-------|-------|--------|------------|--------|--------|
| Name | M. | ID | R | esult. PW | 'L | Re | esult. PW | L" | | Lw/L | .i | Op | erating Ti | me | Height |
| | | | Day | Evening | Night | Day | Evening | Night | Туре | Value | norm. | Day | Special | Night | (ft) |
| | | | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | | | dB(A) | (min) | (min) | (min) | |
| AREASOURCE | | DOCK01 | 103.4 | 103.4 | 103.4 | 58.6 | 58.6 | 58.6 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK02 | 103.4 | 103.4 | 103.4 | 59.6 | 59.6 | 59.6 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK03 | 103.4 | 103.4 | 103.4 | 57.9 | 57.9 | 57.9 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK04 | 103.4 | 103.4 | 103.4 | 61.0 | 61.0 | 61.0 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK05 | 103.4 | 103.4 | 103.4 | 61.0 | 61.0 | 61.0 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK06 | 103.4 | 103.4 | 103.4 | 61.4 | 61.4 | 61.4 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK07 | 103.4 | 103.4 | 103.4 | 61.4 | 61.4 | 61.4 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK08 | 103.4 | 103.4 | 103.4 | 51.6 | 51.6 | 51.6 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK09 | 103.4 | 103.4 | 103.4 | 55.4 | 55.4 | 55.4 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |
| AREASOURCE | | DOCK10 | 103.4 | 103.4 | 103.4 | 55.5 | 55.5 | 55.5 | Lw | 103.4 | | 900.00 | 0.00 | 540.00 | 8 |

| Name | H | lei | ght | | Coordinat | es | |
|------------|-------|-----|------|------------|------------|------|--------|
| | Begin | | End | х | у | Z | Ground |
| | (ft) | | (ft) | (ft) | (ft) | (ft) | (ft) |
| AREASOURCE | 8.00 | а | | 6210820.61 | 2328905.49 | 8.00 | 0.00 |
| | | | | 6210804.14 | 2327506.61 | 8.00 | 0.00 |
| | | П | | 6210623.01 | 2327505.53 | 8.00 | 0.00 |
| | | | | 6210624.33 | 2327645.78 | 8.00 | 0.00 |
| | | | | 6210567.88 | 2327644.90 | 8.00 | 0.00 |
| | | П | | 6210578.02 | 2328907.15 | 8.00 | 0.00 |
| AREASOURCE | 8.00 | а | | 6211515.60 | 2327499.43 | 8.00 | 0.00 |
| | | | | 6211534.83 | 2328899.68 | 8.00 | 0.00 |
| | | | | 6211717.61 | 2328897.96 | 8.00 | 0.00 |
| | | | | 6211703.27 | 2327498.57 | 8.00 | 0.00 |
| AREASOURCE | 8.00 | а | | 6208475.51 | 2329147.10 | 8.00 | 0.00 |
| | | | | 6209022.51 | 2329145.49 | 8.00 | 0.00 |
| | | | | 6209018.25 | 2328950.87 | 8.00 | 0.00 |
| | | П | | 6209073.73 | 2328949.85 | 8.00 | 0.00 |
| | | | | 6209071.69 | 2328612.52 | 8.00 | 0.00 |
| | | | | 6209014.50 | 2328611.50 | 8.00 | 0.00 |
| | | П | | 6209014.84 | 2328599.58 | 8.00 | 0.00 |
| | | | | 6209017.01 | 2328559.29 | 8.00 | 0.00 |
| | | | | 6209015.89 | 2328486.61 | 8.00 | 0.00 |
| | | | | 6208470.17 | 2328489.52 | 8.00 | 0.00 |
| AREASOURCE | 8.00 | а | | 6209432.52 | 2329506.93 | 8.00 | 0.00 |
| | | | | 6209427.72 | 2328727.91 | 8.00 | 0.00 |
| | | | | 6209188.18 | 2328729.08 | 8.00 | 0.00 |
| | | | | 6209192.57 | 2329507.50 | 8.00 | 0.00 |
| AREASOURCE | 8.00 | а | | 6210145.51 | 2329498.53 | 8.00 | 0.00 |
| | | | | 6210385.76 | 2329498.74 | 8.00 | 0.00 |
| | | | | 6210380.65 | 2328719.58 | 8.00 | 0.00 |
| | | | | 6210137.11 | 2328721.91 | 8.00 | 0.00 |
| AREASOURCE | 8.00 | а | | 6212784.90 | 2328202.63 | 8.00 | 0.00 |

| Name | H | lei | ght | | Coordinat | es | | |
|------------|-------|-----|------|------------|------------|------|--------|--|
| | Begin | | End | х | у | Z | Ground | |
| | (ft) | | (ft) | (ft) | (ft) | (ft) | (ft) | |
| | | | | 6212970.78 | 2328202.25 | 8.00 | 0.00 | |
| | | | | 6212971.90 | 2328166.25 | 8.00 | 0.00 | |
| | | П | | 6213027.03 | 2328165.13 | 8.00 | 0.00 | |
| | | | | 6213025.90 | 2327517.10 | 8.00 | 0.00 | |
| | | П | | 6212969.65 | 2327517.10 | 8.00 | 0.00 | |
| | | | | 6212973.03 | 2327484.47 | 8.00 | 0.00 | |
| | | | | 6212785.92 | 2327481.71 | 8.00 | 0.00 | |
| AREASOURCE | 8.00 | а | | 6212075.22 | 2327483.76 | 8.00 | 0.00 | |
| | | | | 6211886.23 | 2327481.09 | 8.00 | 0.00 | |
| | | | | 6211886.23 | 2327515.97 | 8.00 | 0.00 | |
| | | | | 6211834.48 | 2327518.22 | 8.00 | 0.00 | |
| | | | | 6211832.23 | 2328168.50 | 8.00 | 0.00 | |
| | | | | 6211890.73 | 2328169.63 | 8.00 | 0.00 | |
| | | | | 6211888.48 | 2328203.38 | 8.00 | 0.00 | |
| | | | | 6212073.18 | 2328204.68 | 8.00 | 0.00 | |
| AREASOURCE | 8.00 | а | | 6208480.64 | 2329779.41 | 8.00 | 0.00 | |
| | | | | 6209103.99 | 2329774.79 | 8.00 | 0.00 | |
| | | | | 6209092.30 | 2328008.56 | 8.00 | 0.00 | |
| | | | | 6209091.09 | 2327825.26 | 8.00 | 0.00 | |
| | | | | 6209082.85 | 2327197.94 | 8.00 | 0.00 | |
| | | | | 6208459.25 | 2327189.94 | 8.00 | 0.00 | |
| AREASOURCE | 8.00 | а | | 6209153.42 | 2328479.81 | 8.00 | 0.00 | |
| | | | | 6209784.51 | 2328474.95 | 8.00 | 0.00 | |
| | | | | 6209785.90 | 2328391.64 | 8.00 | 0.00 | |
| | | | | 6210416.29 | 2328388.86 | 8.00 | 0.00 | |
| | | | | 6210412.81 | 2327983.78 | 8.00 | 0.00 | |
| | | | | 6209784.50 | 2327984.50 | 8.00 | 0.00 | |
| | | | | 6209783.01 | 2327819.48 | 8.00 | 0.00 | |
| | | | | 6209143.00 | 2327824.83 | 8.00 | 0.00 | |
| AREASOURCE | 8.00 | а | | 6210497.73 | 2329281.97 | 8.00 | 0.00 | |
| | | | | 6210503.76 | 2329767.89 | 8.00 | 0.00 | |
| | | | | 6211749.91 | 2329764.06 | 8.00 | 0.00 | |
| | | | | 6211745.31 | 2329259.40 | 8.00 | 0.00 | |
| | | | | 6211453.06 | 2329259.38 | 8.00 | 0.00 | |
| | | | | 6211449.30 | 2329129.90 | 8.00 | 0.00 | |
| | | | | 6211115.05 | 2329132.91 | 8.00 | 0.00 | |
| | | | | 6211114.29 | 2329278.96 | 8.00 | 0.00 | |

Barrier(s)

| Name | M. | ID | Abso | rption | Z-Ext. | Canti | lever | H | lei | ght | | | Coordinat | es | |
|-------------|----|----|------|--------|--------|-------|-------|-------|-----|------|---|------------|------------|-------|--------|
| | | | left | right | | horz. | vert. | Begin | | End | | х | у | z | Ground |
| | | | | | (ft) | (ft) | (ft) | (ft) | | (ft) | | (ft) | (ft) | (ft) | (ft) |
| BARRIERTEMP | | 0 | | | | | | 9.00 | а | | | 6209019.85 | 2329005.13 | 9.00 | 0.00 |
| | | | | | | | | | | | | 6209023.27 | 2329145.24 | 9.00 | 0.00 |
| | | | | | | | | | | | | 6208475.51 | 2329147.10 | 9.00 | 0.00 |
| | | | | | | | | | | | | 6208470.17 | 2328489.52 | 9.00 | 0.00 |
| | | | | | | | | | | | | 6209015.89 | 2328486.61 | 9.00 | 0.00 |
| | | | | | | | | | | | | 6209017.01 | 2328559.29 | 9.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 9.00 | а | | L | 6209014.84 | 2328599.58 | 9.00 | 0.00 |
| | | | | | | | | | | | | 6209014.50 | 2328611.50 | 9.00 | 0.00 |
| | | | | | | | | | | | | 6209071.69 | 2328612.52 | 9.00 | 0.00 |
| | | | | | | | | | | | L | 6209073.73 | 2328949.85 | 9.00 | 0.00 |
| | | | | | | | | | | | | 6209018.25 | 2328950.87 | 9.00 | 0.00 |
| | | | | | | | | | | | | 6209018.25 | 2328964.49 | 9.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | L | 6211567.63 | 2327497.37 | 14.00 | 0.00 |
| | | | | | | | | | | | | 6211601.69 | 2327495.90 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | | 6211637.19 | 2327497.32 | 14.00 | 0.00 |
| | | | | | | | | | | | | 6211703.23 | 2327495.19 | 14.00 | 0.00 |
| | | | | | | | | | | | | 6211717.61 | 2328897.96 | 14.00 | 0.00 |
| | | | | | | | | | | | | 6211645.99 | 2328899.26 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | | 6211611.63 | 2328899.69 | 14.00 | 0.00 |
| | | | | | | | | | | | | 6211534.83 | 2328899.68 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | L | 6210820.63 | 2328906.70 | 14.00 | 0.00 |
| | | | | | | | | | | | | 6210742.97 | 2328907.15 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | | 6210705.92 | 2328906.71 | 14.00 | 0.00 |
| | | | | | | | | | | | L | 6210578.02 | 2328907.15 | 14.00 | 0.00 |
| | | | | | | | | | | | | 6210574.49 | 2328522.13 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | | 6210575.38 | 2328483.31 | 14.00 | 0.00 |
| | | | | | | | | | | | L | 6210567.88 | 2327644.90 | 14.00 | 0.00 |
| | | | | | | | | | | | Ĺ | 6210624.33 | 2327645.78 | 14.00 | 0.00 |
| | | | | | | | | | | | | 6210623.01 | 2327505.53 | 14.00 | 0.00 |
| | | | | | | | | | | | | 6210694.46 | 2327505.09 | 14.00 | 0.00 |
| BARRIERTEMP | | 0 | | | | | | 14.00 | а | | | 6210804.14 | 2327506.61 | 14.00 | 0.00 |
| | | | | | | | | | | | Г | 6210727.09 | 2327506.85 | 14.00 | 0.00 |

Building(s)

| Name | M. | ID | RB | Residents | Absorption | Height | _ | | Coordinat | es | |
|----------|----|---------------|----|-----------|------------|--------|---|------------|------------|-------|--------|
| | | | | | | Begin | _ | х | у | z | Ground |
| | | | | | | (ft) | | (ft) | (ft) | (ft) | (ft) |
| BUILDING | | BUILDING00001 | х | 0 | | 45.00 | а | 6210822.62 | 2329076.35 | 45.00 | 0.00 |
| | | | | | | | | 6211537.19 | 2329071.36 | 45.00 | 0.00 |
| | | | | | | | | 6211515.57 | 2327497.42 | 45.00 | 0.00 |
| | | | | | | | | 6211567.63 | 2327497.37 | 45.00 | 0.00 |
| | | | | | | | | 6211562.59 | 2327327.89 | 45.00 | 0.00 |
| | | | | | | | | 6210755.80 | 2327339.03 | 45.00 | 0.00 |
| | | | | | | | | 6210754.57 | 2327507.32 | 45.00 | 0.00 |
| | | | | | | | | 6210804.14 | 2327506.61 | 45.00 | 0.00 |
| BUILDING | | BUILDING00002 | х | 0 | | 45.00 | а | 6209374.90 | 2329628.16 | 45.00 | 0.00 |
| | | | | | | | | 6210206.73 | 2329622.16 | 45.00 | 0.00 |
| | | | | | | | | 6210207.93 | 2329500.93 | 45.00 | 0.00 |
| | | | | | | | | 6210145.51 | 2329498.53 | 45.00 | 0.00 |
| | | | | | | | | 6210137.11 | 2328721.91 | 45.00 | 0.00 |
| | | | | | | | | 6210200.73 | 2328720.71 | 45.00 | 0.00 |
| | | | | | | | | 6210198.33 | 2328600.68 | 45.00 | 0.00 |
| | | | | | | | | 6209366.50 | 2328607.88 | 45.00 | 0.00 |
| | | | | | | | | 6209367.70 | 2328726.71 | 45.00 | 0.00 |
| | | | | | | | | 6209427.72 | 2328727.91 | 45.00 | 0.00 |
| | | | | | | | | 6209432.52 | 2329506.93 | 45.00 | 0.00 |
| | | | | | | | | 6209374.90 | 2329506.93 | 45.00 | 0.00 |
| BUILDING | | BUILDING00003 | х | 0 | | 45.00 | а | 6212013.87 | 2328325.34 | 45.00 | 0.00 |
| | | | | | | | | 6212847.27 | 2328325.34 | 45.00 | 0.00 |
| | | | | | | | | 6212847.27 | 2328201.61 | 45.00 | 0.00 |
| | | | | | | | | 6212784.90 | 2328202.63 | 45.00 | 0.00 |
| | | | | | | | | 6212785.92 | 2327481.71 | 45.00 | 0.00 |
| | | | | | | | | 6212846.25 | 2327479.67 | 45.00 | 0.00 |
| | | | | | | | | 6212846.25 | 2327360.03 | 45.00 | 0.00 |
| | | | | | | | | 6212011.82 | 2327359.00 | 45.00 | 0.00 |
| | | | | | | | | 6212012.85 | 2327482.74 | 45.00 | 0.00 |
| | | | | | | | | 6212075.22 | 2327483.76 | 45.00 | 0.00 |
| | | | | | | | | 6212073.18 | 2328204.68 | 45.00 | 0.00 |
| | | | | | | | Г | 6212014.89 | 2328205.70 | 45.00 | 0.00 |

Ground Absorption(s)

| Name | M. | ID | G | Coord | inates |
|--------|----|----|-----|------------|------------|
| | | | | х | У |
| | | | | (ft) | (ft) |
| GROUND | | 0 | 1.0 | 6209942.99 | 2327973.98 |
| | | | | 6209915.17 | 2327962.27 |
| | | | | 6209914.40 | 2327984.35 |
| | | | | 6209969.09 | 2327984.29 |
| | | | | 6209970.24 | 2327973.21 |
| | | | | 6209956.62 | 2327971.87 |
| | | | | 6209952.97 | 2327972.06 |

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APPENDIX 10.1:

CADNAA OYD1 CONSTRUCTION NOISE MODEL INPUTS





12991 - Bloomington Business Park Specific Plan CadnaA Noise Prediction Model: 12991_02-Construction.cna

Date: 10.03.21 Analyst: S. Shami

Calculation Configuration

| Configurat | ion |
|---------------------------------------|--------------------------------|
| Parameter | Value |
| General | |
| Country | (user defined) |
| Max. Error (dB) | 0.00 |
| Max. Search Radius (#(Unit,LEN)) | 2000.01 |
| Min. Dist Src to Rcvr | 0.00 |
| Partition | |
| Raster Factor | 0.50 |
| Max. Length of Section (#(Unit,LEN)) | 999.99 |
| Min. Length of Section (#(Unit,LEN)) | 1.01 |
| Min. Length of Section (%) | 0.00 |
| Proj. Line Sources | On |
| Proj. Area Sources | On |
| Ref. Time | |
| Reference Time Day (min) | 960.00 |
| Reference Time Night (min) | 480.00 |
| Daytime Penalty (dB) | 0.00 |
| Recr. Time Penalty (dB) | 5.00 |
| Night-time Penalty (dB) | 10.00 |
| DTM | |
| Standard Height (m) | 0.00 |
| Model of Terrain | Triangulation |
| Reflection | |
| max. Order of Reflection | 2 |
| Search Radius Src | 100.00 |
| Search Radius Rcvr | 100.00 |
| Max. Distance Source - Rcvr | 1000.00 1000.00 |
| Min. Distance Rvcr - Reflector | 1.00 1.00 |
| Min. Distance Source - Reflector | 0.10 |
| Industrial (ISO 9613) | |
| Lateral Diffraction | some Obj |
| Obst. within Area Src do not shield | On |
| Screening | Incl. Ground Att. over Barrier |
| | Dz with limit (20/25) |
| Barrier Coefficients C1,2,3 | 3.0 20.0 0.0 |
| Temperature (#(Unit,TEMP)) | 10 |
| rel. Humidity (%) | 70 |
| Ground Absorption G | 0.50 |
| Wind Speed for Dir. (#(Unit,SPEED)) | 3.0 |
| Roads (RLS-90) | |
| Strictly acc. to RLS-90 | |
| Railways (FTA/FRA) | |
| Aircraft (???) | |
| Strictly acc. to AzB | |
| · · · · · · · · · · · · · · · · · · · | · |

Receiver Noise Levels

| Name | M. | ID | | Level Lr | | Lir | nit. Val | ue | | Lanc | l Use | Height | | C | oordinates | |
|-----------|----|-----|-------|----------|-------|-------|----------|-------|------|------|------------|--------|---|------------|------------|------|
| | | | Day | Night | CNEL | Day | Night | CNEL | Туре | Auto | Noise Type | | | Х | Υ | Z |
| | | | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | | | | (ft) | | (ft) | (ft) | (ft) |
| RECEIVERS | | R1 | 74.3 | 74.3 | 80.9 | 0.0 | 0.0 | 0.0 | | х | Total | 5.00 | а | 6209067.14 | 2329695.37 | 5.00 |
| RECEIVERS | | R2 | 75.6 | 75.6 | 82.2 | 0.0 | 0.0 | 0.0 | | х | Total | 5.00 | а | 6209676.52 | 2329872.45 | 5.00 |
| RECEIVERS | | R3 | 75.6 | 75.6 | 82.2 | 0.0 | 0.0 | 0.0 | | х | Total | 5.00 | а | 6210511.59 | 2329617.24 | 5.00 |
| RECEIVERS | | R4 | 75.5 | 75.5 | 82.1 | 0.0 | 0.0 | 0.0 | | х | Total | 5.00 | а | 6211644.77 | 2329342.53 | 5.00 |
| RECEIVERS | | R5 | 76.8 | 76.8 | 83.5 | 0.0 | 0.0 | 0.0 | | х | Total | 5.00 | а | 6211822.18 | 2328712.96 | 5.00 |
| RECEIVERS | | R6 | 74.8 | 74.8 | 81.5 | 0.0 | 0.0 | 0.0 | | х | Total | 5.00 | а | 6212891.19 | 2328558.88 | 5.00 |
| RECEIVERS | | R7 | 71.6 | 71.6 | 78.3 | 0.0 | 0.0 | 0.0 | | х | Total | 5.00 | а | 6213126.07 | 2327054.66 | 5.00 |
| RECEIVERS | | R8 | 73.1 | 73.1 | 79.8 | 0.0 | 0.0 | 0.0 | | х | Total | 5.00 | а | 6212357.84 | 2326964.81 | 5.00 |
| RECEIVERS | | R9 | 76.2 | 76.2 | 82.8 | 0.0 | 0.0 | 0.0 | | х | Total | 5.00 | а | 6210361.40 | 2328187.64 | 5.00 |
| RECEIVERS | | R10 | 74.5 | 74.5 | 81.2 | 0.0 | 0.0 | 0.0 | | х | Total | 5.00 | а | 6209028.59 | 2328394.59 | 5.00 |

Area Source(s)

| Name | M. | ID | R | esult. PW | /L | Re | esult. PW | L" | | Lw / L | i | Ор | erating Ti | me | Height |
|--------------|----|--------------|-------|-------------------|-------|-------|---------------|-------|------|--------|-------|-------|------------|-------|--------|
| | | | Day | Evening | Night | Day | Evening | Night | Туре | Value | norm. | Day | Special | Night | (ft) |
| | | | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | | | dB(A) | (min) | (min) | (min) | |
| SITEBOUNDARY | | CONSTRUCTION | 136.8 | 136.8 136.8 136.8 | | | 0.0 79.0 79.0 | | | Lw" 79 | | | | | 8 |

| Name | H | lei | ght | | | Coordinat | es | |
|--------------|-----------|-----|------|------------|------------|-----------|------|--------|
| | Begin End | | | | х | у | Z | Ground |
| | (ft) | | (ft) | | (ft) | (ft) | (ft) | (ft) |
| SITEBOUNDARY | Y 8.00 a | | | 6208463.48 | 2329189.06 | 8.00 | 0.00 | |

| Name | Не | eight | Coordinates | | | | | | | | |
|------|-------|-------|-------------|------------|------|--------|--|--|--|--|--|
| | Begin | End | x | у | Z | Ground | | | | | |
| | (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | | | | | |
| | | | 6209159.66 | 2329182.12 | 8.00 | 0.00 | | | | | |
| | | | 6209166.61 | 2329786.28 | 8.00 | 0.0 | | | | | |
| | | | 6209168.34 | 2329791.49 | 8.00 | 0.00 | | | | | |
| | | | 6209177.02 | 2329800.17 | 8.00 | 0.00 | | | | | |
| | | | 6209190.91 | 2329801.91 | 8.00 | 0.00 | | | | | |
| | | | 6210395.77 | 2329789.76 | 8.00 | 0.0 | | | | | |
| | | | 6210423.55 | 2329763.71 | 8.00 | 0.0 | | | | | |
| | | | 6210414.87 | 2329317.53 | 8.00 | 0.0 | | | | | |
| | | | 6211121.47 | 2329308.85 | 8.00 | 0.0 | | | | | |
| | | | 6211121.47 | 2329157.81 | 8.00 | 0.0 | | | | | |
| | | | 6211453.07 | 2329157.81 | 8.00 | 0.0 | | | | | |
| | | | 6211454.80 | 2329288.02 | 8.00 | 0.0 | | | | | |
| | | | 6211753.41 | 2329284.55 | 8.00 | 0.0 | | | | | |
| | | | 6211744.73 | 2328491.14 | 8.00 | 0.0 | | | | | |
| | | | 6211810.70 | 2328487.67 | 8.00 | 0.0 | | | | | |
| | | | 6213072.86 | 2328472.05 | 8.00 | 0.0 | | | | | |
| | | | 6213058.97 | 2327220.31 | 8.00 | 0.0 | | | | | |
| | | | 6213057.23 | 2327208.16 | 8.00 | 0.0 | | | | | |
| | | | 6213046.82 | 2327201.21 | 8.00 | 0.0 | | | | | |
| | | | 6213036.40 | 2327192.53 | 8.00 | 0.0 | | | | | |
| | | | 6210652.72 | 2327201.21 | 8.00 | 0.0 | | | | | |
| | | | 6210656.19 | 2327421.70 | 8.00 | 0.0 | | | | | |
| | | | 6210479.11 | 2327425.17 | 8.00 | 0.0 | | | | | |
| | | | 6210491.26 | 2328414.76 | 8.00 | 0.0 | | | | | |
| | | | 6209784.66 | 2328423.44 | 8.00 | 0.0 | | | | | |
| | | | 6209784.66 | 2328505.03 | 8.00 | 0.00 | | | | | |
| | | | 6208456.54 | 2328522.39 | 8.00 | 0.00 | | | | | |

APPENDIX 10.2:

CADNAA OYD2 CONSTRUCTION NOISE MODEL INPUTS





12991 - Bloomington Business Park Specific Plan- PLD CadnaA Noise Prediction Model: 12991_04_MRIDA_Construction.cna

Date: 04.05.21 Analyst: S. Shami

Calculation Configuration

| Configurat | tion |
|--------------------------------------|--------------------------------|
| Parameter | Value |
| General | |
| Country | (user defined) |
| Max. Error (dB) | 0.00 |
| Max. Search Radius (#(Unit,LEN)) | 2000.01 |
| Min. Dist Src to Rcvr | 0.00 |
| Partition | |
| Raster Factor | 0.50 |
| Max. Length of Section (#(Unit,LEN)) | 999.99 |
| Min. Length of Section (#(Unit,LEN)) | 1.01 |
| Min. Length of Section (%) | 0.00 |
| Proj. Line Sources | On |
| Proj. Area Sources | On |
| Ref. Time | |
| Reference Time Day (min) | 960.00 |
| Reference Time Night (min) | 480.00 |
| Daytime Penalty (dB) | 0.00 |
| Recr. Time Penalty (dB) | 5.00 |
| Night-time Penalty (dB) | 10.00 |
| DTM | |
| Standard Height (m) | 0.00 |
| Model of Terrain | Triangulation |
| Reflection | . 0 |
| max. Order of Reflection | 2 |
| Search Radius Src | 100.00 |
| Search Radius Rcvr | 100.00 |
| Max. Distance Source - Rcvr | 1000.00 1000.00 |
| Min. Distance Rvcr - Reflector | 1.00 1.00 |
| Min. Distance Source - Reflector | 0.10 |
| Industrial (ISO 9613) | |
| Lateral Diffraction | some Obj |
| Obst. within Area Src do not shield | On |
| Screening | Incl. Ground Att. over Barrier |
| | Dz with limit (20/25) |
| Barrier Coefficients C1,2,3 | 3.0 20.0 0.0 |
| Temperature (#(Unit,TEMP)) | 10 |
| rel. Humidity (%) | 70 |
| Ground Absorption G | 0.50 |
| Wind Speed for Dir. (#(Unit,SPEED)) | 3.0 |
| Roads (RLS-90) | |
| Strictly acc. to RLS-90 | |
| Railways (FTA/FRA) | |
| Aircraft (???) | |
| Strictly acc. to AzB | |

Receiver Noise Levels

| | ٠. | | | C.3 | | | | | | | | | | | | |
|-----------|----|-------|-------|----------|-------|-------|----------|-------|------|------|------------|--------|---|------------|------------|------|
| Name | M. | ID | | Level Lr | | Liı | mit. Val | ue | | Lanc | d Use | Height | | C | oordinates | |
| | | | Day | Night | CNEL | Day | Night | CNEL | Туре | Auto | Noise Type | | | Х | Υ | Z |
| | | | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | | | | (ft) | | (ft) | (ft) | (ft) |
| RECEIVERS | | M-R1 | 74.4 | 74.4 | 81.1 | 59.0 | 55.0 | 0.0 | | | | 5.00 | а | 6209085.24 | 2329695.58 | 5.00 |
| RECEIVERS | | M-R2 | 74.9 | 74.9 | 81.6 | 63.0 | 60.0 | 0.0 | | | | 5.00 | а | 6209676.52 | 2329872.45 | 5.00 |
| RECEIVERS | | M-R3 | 75.6 | 75.6 | 82.3 | 71.0 | 67.0 | 0.0 | | | | 5.00 | а | 6210511.59 | 2329617.24 | 5.00 |
| RECEIVERS | | M-R4 | 74.5 | 74.5 | 81.2 | 59.0 | 56.0 | 0.0 | | | | 5.00 | а | 6211644.77 | 2329342.53 | 5.00 |
| RECEIVERS | | M-R5 | 76.6 | 76.6 | 83.2 | 67.0 | 65.0 | 0.0 | | | | 5.00 | а | 6211822.18 | 2328712.96 | 5.00 |
| RECEIVERS | | M-R6 | 74.3 | 74.3 | 80.9 | 57.0 | 54.0 | 0.0 | | | | 5.00 | а | 6212891.19 | 2328558.88 | 5.00 |
| RECEIVERS | | M-R7 | 71.6 | 71.6 | 78.2 | 68.0 | 62.0 | 0.0 | | | | 5.00 | а | 6213126.07 | 2327054.66 | 5.00 |
| RECEIVERS | | M-R8 | 73.3 | 73.3 | 80.0 | 59.0 | 55.0 | 0.0 | | | | 5.00 | а | 6212357.84 | 2326964.81 | 5.00 |
| RECEIVERS | | M-R9 | 76.5 | 76.5 | 83.2 | 58.0 | 55.0 | 0.0 | | | | 5.00 | а | 6210361.40 | 2328187.64 | 5.00 |
| RECEIVERS | | M-R10 | 75.1 | 75.1 | 81.8 | 55.0 | 53.0 | 0.0 | | | | 5.00 | а | 6209028.59 | 2328394.59 | 5.00 |
| | | | | | | | | | | | | | | | | |

Area Source(s)

| Name | M. | ID | R | esult. PW | 'L | Re | Result. PWL" | | | Lw / Li | | | Operating Time | | |
|---------------|----|-------------|-------|-----------|-------|-------|--------------|-------|------|---------|-------|-------|----------------|-------|------|
| | | | Day | Evening | Night | Day | Evening | Night | Туре | Value | norm. | Day | Special | Night | (ft) |
| | | | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | | | dB(A) | (min) | (min) | (min) | |
| SITEBOUNDARY2 | | CONSTUCTION | 136.8 | 136.8 | 136.8 | 79.0 | 79.0 | 79.0 | Lw" | 79 | | | | | 8 |

| Name | H | lei | ght | | Coordinates | | | | | | | |
|---------------|-------|---------|-----|------|-------------|------------|------|--------|--|--|--|--|
| | Begin | | End | | х | у | Z | Ground | | | | |
| | (ft) | :) (ft) | | (ft) | (ft) | (ft) | (ft) | | | | | |
| SITEBOUNDARY2 | 8.00 | а | | | 6210384.24 | 2328391.33 | 8.00 | 0.00 | | | | |

| Name | Не | eight | Coordinates | | | | | | | | |
|------|-------|-------|-------------|------------|------|--------|--|--|--|--|--|
| | Begin | End | х | у | Z | Ground | | | | | |
| | (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | | | | | |
| | | | 6209789.62 | 2328404.35 | 8.00 | 0.00 | | | | | |
| | | | 6209791.79 | 2328482.48 | 8.00 | 0.00 | | | | | |
| | | | 6208470.17 | 2328489.52 | 8.00 | 0.00 | | | | | |
| | | | 6208475.51 | 2329147.10 | 8.00 | 0.00 | | | | | |
| | | | 6209165.28 | 2329144.76 | 8.00 | 0.00 | | | | | |
| | | | 6209167.95 | 2329774.31 | 8.00 | 0.00 | | | | | |
| | | | 6209911.62 | 2329769.72 | 8.00 | 0.00 | | | | | |
| | | | 6209995.33 | 2329769.46 | 8.00 | 0.00 | | | | | |
| | | | 6210431.38 | 2329768.12 | 8.00 | 0.00 | | | | | |
| | | | 6210431.88 | 2329283.80 | 8.00 | 0.00 | | | | | |
| | | | 6211115.76 | 2329279.31 | 8.00 | 0.00 | | | | | |
| | | | 6211114.28 | 2329130.32 | 8.00 | 0.00 | | | | | |
| | | | 6211443.72 | 2329128.48 | 8.00 | 0.00 | | | | | |
| | | | 6211444.86 | 2329258.49 | 8.00 | 0.00 | | | | | |
| | | | 6211745.28 | 2329255.90 | 8.00 | 0.00 | | | | | |
| | | | 6211744.42 | 2329162.02 | 8.00 | 0.00 | | | | | |
| | | | 6211738.08 | 2328466.73 | 8.00 | 0.00 | | | | | |
| | | | 6213054.15 | 2328454.82 | 8.00 | 0.00 | | | | | |
| | | | 6213049.54 | 2327774.13 | 8.00 | 0.00 | | | | | |
| | | | 6213041.90 | 2327183.78 | 8.00 | 0.00 | | | | | |
| | | | 6210461.33 | 2327173.86 | 8.00 | 0.00 | | | | | |
| | | | 6210469.11 | 2328392.12 | 8.00 | 0.00 | | | | | |

APPENDIX 10.3:

CADNAA SP CONSTRUCTION NOISE MODEL INPUTS





12991 - Bloomington Business Park Specific Plan- PLD CadnaA Noise Prediction Model: 12991_04_SP_Construction.cna

Date: 04.05.21 Analyst: S. Shami

Calculation Configuration

| Calculation Configuration Configuration | | | | | | | | | | |
|--|--------------------------------|--|--|--|--|--|--|--|--|--|
| Parameter | Value | | | | | | | | | |
| General | | | | | | | | | | |
| Country | (user defined) | | | | | | | | | |
| Max. Error (dB) | 0.00 | | | | | | | | | |
| Max. Search Radius (#(Unit,LEN)) | 2000.01 | | | | | | | | | |
| Min. Dist Src to Rcvr | 0.00 | | | | | | | | | |
| Partition | | | | | | | | | | |
| Raster Factor | 0.50 | | | | | | | | | |
| Max. Length of Section (#(Unit,LEN)) | 999.99 | | | | | | | | | |
| Min. Length of Section (#(Unit,LEN)) | 1.01 | | | | | | | | | |
| Min. Length of Section (%) | 0.00 | | | | | | | | | |
| Proj. Line Sources | On | | | | | | | | | |
| Proj. Area Sources | On | | | | | | | | | |
| Ref. Time | | | | | | | | | | |
| Reference Time Day (min) | 960.00 | | | | | | | | | |
| Reference Time Night (min) | 480.00 | | | | | | | | | |
| Daytime Penalty (dB) | 0.00 | | | | | | | | | |
| Recr. Time Penalty (dB) | 5.00 | | | | | | | | | |
| Night-time Penalty (dB) | 10.00 | | | | | | | | | |
| DTM | | | | | | | | | | |
| Standard Height (m) | 0.00 | | | | | | | | | |
| Model of Terrain | Triangulation | | | | | | | | | |
| Reflection | | | | | | | | | | |
| max. Order of Reflection | 2 | | | | | | | | | |
| Search Radius Src | 100.00 | | | | | | | | | |
| Search Radius Rcvr | 100.00 | | | | | | | | | |
| Max. Distance Source - Rcvr | 1000.00 1000.00 | | | | | | | | | |
| Min. Distance Rvcr - Reflector | 1.00 1.00 | | | | | | | | | |
| Min. Distance Source - Reflector | 0.10 | | | | | | | | | |
| Industrial (ISO 9613) | | | | | | | | | | |
| Lateral Diffraction | some Obj | | | | | | | | | |
| Obst. within Area Src do not shield | On | | | | | | | | | |
| Screening | Incl. Ground Att. over Barrier | | | | | | | | | |
| | Dz with limit (20/25) | | | | | | | | | |
| Barrier Coefficients C1,2,3 | 3.0 20.0 0.0 | | | | | | | | | |
| Temperature (#(Unit,TEMP)) | 10 | | | | | | | | | |
| rel. Humidity (%) | 70 | | | | | | | | | |
| Ground Absorption G | 0.50 | | | | | | | | | |
| Wind Speed for Dir. (#(Unit,SPEED)) | 3.0 | | | | | | | | | |
| Roads (RLS-90) | | | | | | | | | | |
| Strictly acc. to RLS-90 | | | | | | | | | | |
| Railways (FTA/FRA) | | | | | | | | | | |
| Aircraft (???) | | | | | | | | | | |
| Strictly acc. to AzB | | | | | | | | | | |

Receiver Noise Levels

| Name | M. | ID | Level Lr | | | Limit. Value | | | Land Use | | | Height | | Coordinates | | | |
|-----------|----|-------|----------|-------|-------|--------------|-------|-------|----------|------|------------|--------|---|-------------|------------|------|--|
| | | | Day | Night | CNEL | Day | Night | CNEL | Туре | Auto | Noise Type | | | Х | Υ | Z | |
| | | | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | | | | (ft) | | (ft) | (ft) | (ft) | |
| RECEIVERS | | SP-R1 | 73.0 | 73.0 | 79.7 | 71.0 | 77.0 | 0.0 | | | | 5.00 | а | 6208192.26 | 2328225.78 | 5.00 | |
| RECEIVERS | | SP-R2 | 76.5 | 76.5 | 83.1 | 61.0 | 57.0 | 0.0 | | | | 5.00 | а | 6208450.35 | 2329710.72 | 5.00 | |
| RECEIVERS | | SP-R3 | 75.3 | 75.3 | 81.9 | 70.0 | 65.0 | 0.0 | | | | 5.00 | а | 6208867.02 | 2329868.27 | 5.00 | |
| RECEIVERS | | SP-R4 | 76.0 | 76.0 | 82.6 | 75.0 | 73.0 | 0.0 | | | | 5.00 | а | 6211089.75 | 2329847.87 | 5.00 | |
| RECEIVERS | | SP-R5 | 75.3 | 75.3 | 82.0 | 59.0 | 56.0 | 0.0 | | | | 5.00 | а | 6211837.36 | 2329506.94 | 5.00 | |
| RECEIVERS | | SP-R6 | 79.6 | 79.6 | 86.2 | 57.0 | 55.0 | 0.0 | | | | 5.00 | а | 6209946.53 | 2327971.36 | 5.00 | |

Area Source(s)

| Name | M. | ID | Result. PWL | | | Result. PWL" | | | Lw / Li | | | Operating Time | | | Height |
|---------------|----|--------------|-------------------|-------|-------|--------------|-------|-------|---------|-------|-------|----------------|-------|-------|--------|
| | | | Day Evening Night | | Day | Evening | Night | Туре | Value | norm. | Day | Special | Night | (ft) | |
| | | | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | (dBA) | | | dB(A) | (min) | (min) | (min) | |
| SITEBOUNDARY3 | | CONSTRUCTION | 138.3 | 138.3 | 138.3 | 79.0 | 79.0 | 79.0 | Lw" | 79 | | | | | 8 |

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| Name | ŀ | lei | ght | | Coordinates | | | | | | | | |
|---------------|--------|-----|------|--|-------------|------------|------|--------|--|--|--|--|--|
| | Begin | | End | | х | У | Z | Ground | | | | | |
| | (ft) | | (ft) | | (ft) | (ft) | (ft) | (ft) | | | | | |
| SITEBOUNDARY3 | 8.00 a | | | | 6213054.15 | 2328454.82 | 8.00 | 0.00 | | | | | |
| | | | | | 6213041.90 | 2327183.78 | 8.00 | 0.00 | | | | | |
| | | | | | 6210461.33 | 2327173.86 | 8.00 | 0.00 | | | | | |
| | | | | | 6210465.74 | 2327983.72 | 8.00 | 0.00 | | | | | |
| | | | | | 6209784.50 | 2327984.50 | 8.00 | 0.00 | | | | | |

| Name | He | ight | | Coordinates | | | | | | | | |
|------|-------|------|------------|-------------|------|----------------|--|--|--|--|--|--|
| | Begin | End | x | у | Z | Ground (ft) | | | | | | |
| | (ft) | (ft) | (ft) | (ft) | (ft) | | | | | | | |
| | | | 6209783.01 | 2327819.48 | 8.00 | 0.00 | | | | | | |
| | | | 6209091.09 | 2327825.26 | 8.00 | 0.00 | | | | | | |
| | | | 6209082.85 | 2327197.94 | 8.00 | 0.00 | | | | | | |
| | | | 6208459.25 | 2327189.94 | 8.00 | 0.00 | | | | | | |
| | | | 6208470.17 | 2328489.52 | 8.00 | 0.00 | | | | | | |
| | | | 6208480.64 | 2329779.41 | 8.00 | 0.00 | | | | | | |
| | | | 6209701.25 | 2329770.36 | 8.00 | 0.00 | | | | | | |
| | | | 6211749.91 | 2329764.06 | 8.00 | 0.00 | | | | | | |
| | | | 6211738.08 | 2328466.73 | 8.00 | 0.00 | | | | | | |

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