

Detailed Noise Analysis Report

SC Highway 41 Corridor Improvements Project

Charleston and Berkeley Counties, South Carolina

August 10, 2020

Prepared for Charleston County

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Executive Summary

To accommodate an increase in traffic volume, Charleston County, the Town of Mount Pleasant, and South Carolina Department of Transportation (SCDOT) are partnering to improve roadway capacity and ease traffic congestion along an approximate 4.6-mile stretch of Highway 41 (SC 41) (Figure 1). The project study area has been defined as SC 41 from US 17 in Mt. Pleasant across the new Wando River Bridge to Clements Ferry Road in Berkeley County. The existing section of SC 41 within the study area is a two-lane roadway with grassed shoulders and roadside ditches. Signalized intersections are located at SC 41 and US 17, SC 41 and Bessemer Road, SC 41 and Rivertowne Parkway/Dunes West Boulevard, and SC 41 and Clements Ferry Road. The project includes improvements to the intersection of SC 41 and US 17 and completion of the tie in of Gregory Ferry Road to SC 41 near US 17. The study corridor also includes US 17 from the intersection with Hamlin Road to the entrance to Oakland Plantation and an expanded study area around Laurel Hill County Park and the Phillips Community between Bessemer Road and Dunes West Boulevard.

While there is no federal funding for the SC 41 Corridor Improvements project, a federal Clean Water Act Section 404 permit is required to construct the project because of anticipated impacts to wetlands and waters of the United States. Therefore, the project's design scope must be established in accordance with the National Environmental Policy Act (NEPA) process. The U.S. Army Corps of Engineers (USACE) will be the Lead Federal Agency for the project upon their review of the project's permit application and associated environmental report.

This Detailed Noise Analysis was prepared to assess noise impacts from the two reasonable alternatives, Alternative 1 and Alternative 7a, being considered by Charleston County (see Figures 1 and 2). The project team used SCDOT policies and FHWA regulations to prepare the noise study because USACE does not have a noise analysis policy and these policies and regulations represent an accepted method of assessing noise impacts for transportation projects. The SCDOT Traffic Noise Abatement Policy constitutes the official SCDOT noise policy and procedures for the purpose of meeting the requirements of Title 23 of the Code of Federal Regulations (CFR) Part 772 and applicable state laws. This analysis conforms to Federal Highway Administration (FHWA) Regulation 23 CFR 772, "Procedures for Abatement of Highway Traffic Noise and Construction Noise," and all applicable state laws.

The existing (2019) and design year (2045) traffic noise levels for the Existing, No-Build, and Build Alternatives were predicted for 1378 receivers using the FHWA's latest traffic noise modeling software, TNM 2.5. The table below provides a summary of the impacts for the two Build Alternatives. The results of the noise analysis indicate traffic-related noise impacts occur for 60 receivers under Build Alternative 1 and 103 receivers under Build Alternative 7A.



Impact Summary

		Year 20 Altern	45 Build atives
Activity Category		Alternative 1	Alternative 7A
A	Lands on which serenity and quiet are of extraordinary significance and serve an important public need and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose.	0	0
В	Residential	58	100
С	Active sports areas, amphitheaters, auditoriums, campgrounds, cemeteries, day care centers, hospitals, libraries, medical facilities, parks, picnic areas, places of worship, playgrounds, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, recreational areas, Section 4(f) sites, schools, television studios, trails, and trail crossings.	0	1
D	Auditoriums, day care centers, hospitals, libraries, medical facilities, places of worship, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, schools, and television studios.	0	0
Е	Hotels, motels, offices, restaurants/bars, and other developed lands, properties or activities not included in A-D or F.	2	2
Total		60	103

Barrier Analysis Summary

Maps of the locations of the investigated noise barriers are provided in Appendix B.

- Alternative 1: Based on the detailed noise analysis of 19 potential barriers to shield impacts in Alternative 1, 15 barriers were found to be not feasible due to access and safety issues, four barriers were found to be feasible but not reasonable, and no barriers were found to be feasible and reasonable.
- Alternative 7a: Based on the detailed noise analysis of 16 potential barriers to shield impacts in Alternative 7a, eight barriers were found to be not feasible due to access and safety issues, six barriers were found to be feasible but not reasonable, and two barriers were found to be feasible and reasonable pending the selection of an alternative and the public involvement process.

Construction Impacts

The major construction elements of this project are expected to be earth removal, hauling, grading, and paving. Construction noise impacts – some of them potentially substantial – may occur due to the close proximity of numerous noise-sensitive receivers to project construction activities. It is the recommendation of this traffic noise analysis that all reasonable efforts should be made to minimize exposure of noise-sensitive areas to construction noise impacts.





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1.0 Introduction

1.1 Project Description

To accommodate an increase in traffic volume, Charleston County, the Town of Mount Pleasant, and South Carolina Department of Transportation (SCDOT) are partnering to improve roadway capacity and ease traffic congestion along an approximate 4.6-mile stretch of Highway 41 (SC 41) (Figure 1). This section of SC 41 serves as a minor arterial that has experienced an increase in traffic due to regional growth, and currently sustains operations that exceed capacity and are projected to worsen over time. As a designated hurricane evacuation route and key corridor in and out of Mount Pleasant, SC 41 will continue to experience significant use and increased traffic congestion.

The project study area has been defined as SC 41 from US 17 in Mt. Pleasant across the new Wando River Bridge to Clements Ferry Road in Berkeley County. The existing section of SC 41 within the study area is a two-lane roadway with grassed shoulders and roadside ditches. Signalized intersections are located at SC 41 and US 17, SC 41 and Bessemer Road, SC 41 and Rivertowne Parkway/Dunes West Boulevard, and SC 41 and Clements Ferry Road.

The project includes improvements to the intersection of SC 41 and US 17 and completion of the tie in of Gregory Ferry Road to SC 41 near US 17. The study corridor also includes US 17 from the intersection with Hamlin Road to the entrance to Oakland Plantation and an expanded study area around Laurel Hill County Park and the Phillips Community between Bessemer Road and Dunes West Boulevard. The purpose of the expanded study area is to fully evaluate the potential project effects on the County Park, adjacent communities, and associated roadways. The study corridor also includes a 300-foot wide corridor on either side of the centerline on Dunes West Boulevard and Bessemer Road.

Residential communities along SC 41 include the Phillips Community, Dunes West, Park West, Rivertowne, Planter's Pointe, The Colonnade, Brickyard Plantation, and Horlbeck Creek (Figure 2). Additionally, the project study area includes crossings over Horlbeck, Mill, and Wagner Creeks. While the study corridor includes the Wando River, no construction is anticipated within or directly adjacent to the river since the SC 41 bridge was recently replaced in 2017.

While there is no federal funding for the SC 41 Corridor Improvements project, a federal Clean Water Act Section 404 permit is required to construct the project because of anticipated impacts to wetlands and waters of the United States. Therefore, the project's design scope must be established in accordance with the National Environmental Policy Act (NEPA) process. Under the NEPA process, an extensive environmental review must take place in order to complete a rigorous analysis of the project area and to examine reasonable alternatives for the improvements. The environmental review is done in order to avoid, minimize or mitigate environmental impacts and to ensure public participation is incorporated into the decision making process. The U.S. Army Corps of Engineers (USACE) will be the Lead Federal Agency for the project upon their review of the project's permit application and associated environmental report.





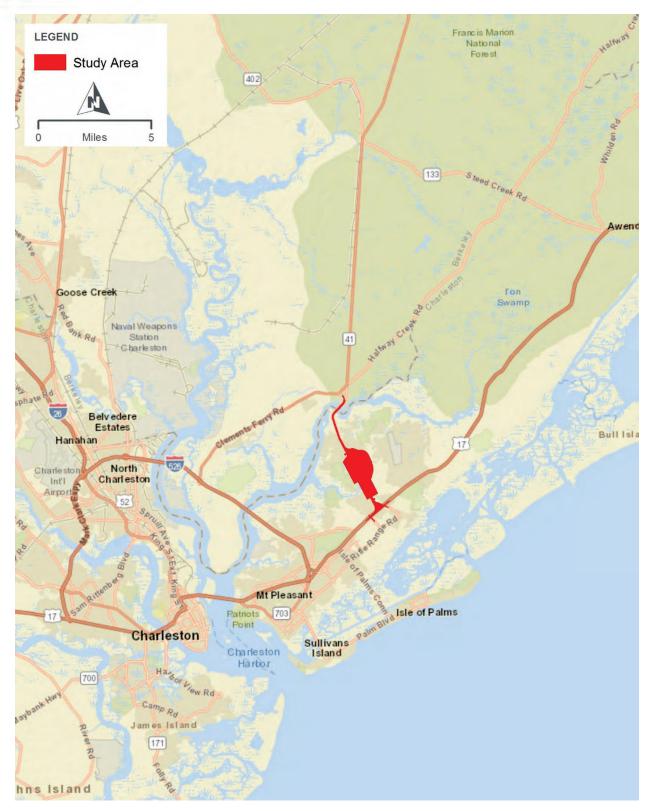


Figure 1. Project Vicinity





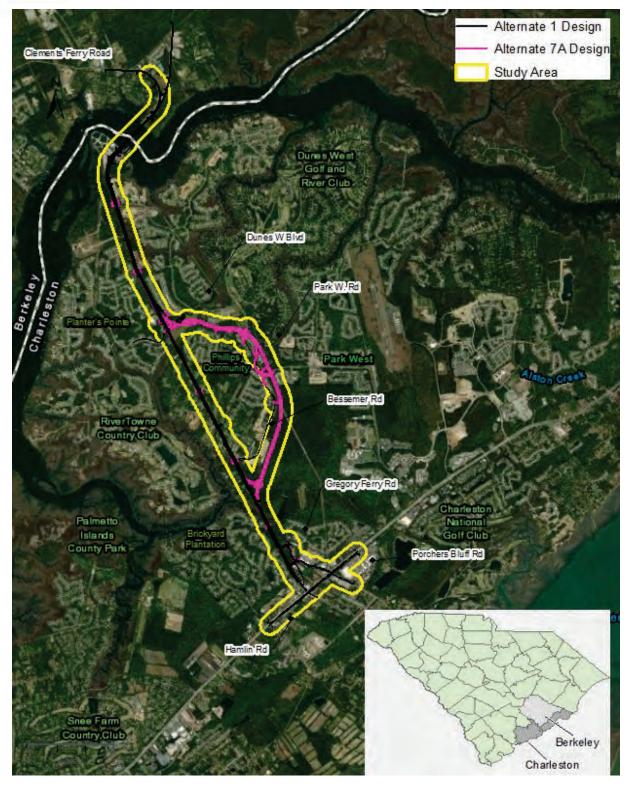


Figure 2. Project Location and Study Areas



1.2 Purpose

This Detailed Noise Analysis was prepared to assess noise impacts from the two reasonable alternatives, Alternative 1 and Alternative 7a, being considered by Charleston County (see Figures 1 and 2). The project team used SCDOT policies and FHWA regulations to prepare the noise study because USACE does not have a noise analysis policy and these policies and regulations represent an accepted method of assessing noise impacts for transportation projects. The SCDOT Traffic Noise Abatement Policy constitutes the official SCDOT noise policy and procedures for the purpose of meeting the requirements of Title 23 of the Code of Federal Regulations (CFR) Part 772 and applicable state laws. This analysis conforms to Federal Highway Administration (FHWA) Regulation 23 CFR 772, "Procedures for Abatement of Highway Traffic Noise and Construction Noise," and all applicable state laws.

1.3 Need for Improvement

The primary purpose of the proposed SC 41 corridor improvements project is to reduce traffic congestion within the SC 41 corridor to accommodate future traffic projections. The secondary purposes of the proposed SC 41 corridor improvements project are to:

- enhance safety throughout the corridor,
- improve transportation system and community connections,
- provide bicycle and pedestrian accommodations,
- minimize community and environmental impacts.

The proposed project is needed to address anticipated local and regional growth, increased traffic congestion, safety and emergency response concerns, and inadequate interconnections of transportation modes, including pedestrian and bicycle facilities.

2.0 Methodology

The Federal Highway Administration (FHWA) Traffic Noise Model, TNM2.5 was used to calculate existing noise levels and predict future design year noise levels for four distinct scenarios consisting of the current year (2019) Existing Alternative, design year (2045) No-Build Alternative, Alternative 1, and Alternative 7a. Inputs to this model include noise sensitive receiver locations, existing and future roadway alignments, and features such as buildings, ground zones, and elevation. In addition, traffic volumes including vehicle mix and posted speeds were used. The noise analysis for this project was prepared in accordance with the SCDOT *Traffic Noise Abatement Policy*, dated August 2014 (effective September 1, 2014) to comply with the amended 23 CFR 772 which became effective July 2011.

2.1 Characteristics of Noise

Noise is typically defined as "any sound that is created when object moves, causing vibrations or waves in air molecules." The basic parameters of noise that affect humans are:

- Intensity of level
- Frequency content
- Variation with time

¹ Source: SCDOT Traffic Noise Abatement Policy, South Carolina Department of Transportation. September 1, 2014.





Typical urban and suburban environments are comprised of "background noise" that consists of common sounds such as traffic, air conditioners, cell phones, bird calls, and other familiar sounds. People's reaction to sounds above normal background noise depends on the intensity, the frequency, and the variation in the sound level.

Intensity is determined by the level² of sound, which is expressed in units of decibel (dB). On a relative basis, a 3 dB positive change in sound level generally represents a barely perceptible change in a common outdoor setting, to someone with average hearing. A 5-dB positive change present a "noticeable" change, and a 10-dB positive change is typically perceived as a doubling in loudness.

Because the sensitivity of human hearing varies with frequency, the A-weighting system is commonly used. Sound levels measured using this weighting system are called "A-weighted" sound levels. The A-weighted decibel, abbreviated dBA is a widely accepted proper unit for describing environmental noise.

Many factors affect noise. Traffic noise level at a site depends on many site features (distance, land cover, topography, etc.) and traffic characteristic (volume, vehicle type, speed, truck numbers, etc.) of proposed roadways. Noise levels from trucks are much greater than noise levels from automobiles. Assuming similar vehicle mix and travel speeds, a doubling in traffic volume produces a doubling in the sound energy. A doubling in sound energy corresponds to a barely perceptible 3-dBA increase in nose level.

Noise is measured in a logarithmic unit called a decibel (dBA), measured on a scale of 1 to 180, providing a range for the sound levels that fall within the normal range of hearing. Figure 3 provides an overview of several different types of noises and what the sound level is in dBA.

2.2 Model and Noise Metrics

The noise level descriptor used by SCDOT is the L_{eq} . L_{eq} is the equivalent steady-state sound level, which, in a stated period of time, contains the same acoustic energy as the time-varying sound level during the same time period, with L_{eq} (h) being the hourly value of the L_{eq} . Figure 3 illustrates how traffic noise levels relate to other sound sources.

The Federal Highway Administration (FHWA) Traffic Noise Model (TNM), version 2.5, was used to predict noise levels, perform noise barrier analysis, if needed, and develop noise contours.

 $^{^2}$ The number of decibels is calculated as ten times the base-10 logarithm of the square of the ratio of the mean-square sound pressure (often frequency weighted), and the reference mean-squared sound pressure of 20 μPa, the threshold of human hearing.



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	SOUND SOURCE	dBAª	RESPONSE DESCRIPTOR
	CARRIER DECK JET OPERATION	140	LIMIT OF AMPLIFIED SPEECH
	JET TAKEOFF (200 FEET)	130	PAINFULLY LOUD
	RIVETING MACHINE	120	THRESHOLD OF FEELING AND PAIN
To the state of th	NEW YORK SUBWAY STATION	110	
	HEAVY TRUCK (50 FEET)	100	VERY ANNOYING
	PASSENGER TRAIN (100 FEET)	ngn	HEARING DAMAGE (8-HOUR EXPOSURE)
	HELICOPTER (IN-FLIGHT, 500 FEET)	NRN	ANNOYING
	FREEWAY TRAFFIC (50 FEET)	070	INTRUSIVE
	AIR CONDITIONING UNIT (20 FEET)	060	
310	LIGHT AUTO TRAFFIC (50 FEET)	050	QUIET
	NORMAL SPEECH (15 FEET)	040	
	LIVING ROOM, BEDROOM, LIBRARY	030	VERY QUIET
	SOFT WHISPER (15 FEET)	020	7
	BROADCASTING STUDIO	010	JUST AUDIBLE
		nnn	THRESHOLD OF HEARING

Figure 3. Weighted Noise Levels and Human Response

2.3 Traffic Data

Traffic noise consists of three primary parts: tire/pavement noise, engine noise, and exhaust noise. Of these sources, tire noise is typically the most unpleasant at unimpeded travel speeds. Sporadic traffic noises such as horns, squealing brakes, screeching tires, etc. are considered abnormal and are not included within the predictive model algorithm. Traffic noise is not constant; it varies in time depending upon the number, speed, type, and frequency of vehicles that pass by a given receptor. A receptor is a discrete or representative location of a noise sensitive site or land area ("receiver"). Furthermore, since traffic noise emissions are different for various types of vehicles; the TNM algorithm distinguishes between source noise emissions from the following vehicle types: automobiles, medium trucks, heavy trucks, buses, and motorcycle (see Table 1).





Table 1: Traffic Noise Model (TNM) Vehicle Classification Types

TNM Vehicle Type	Description
Autos	All vehicles with two axles and four tires, including passenger cars and light trucks, weighing 10,000 pounds or less
Medium Trucks	All vehicles having two axles and six tires, weighing between 10,000 and 26,000 pounds
Heavy Trucks	All vehicles having three or more axles, weighing more than 26,000 pounds
Buses	All vehicles designed to carry more than nine passengers
Motorcycles	All vehicles with two or three tires and an open-air driver / passenger compartment

Sources: FHWA Measurement of Highway-Related Noise, § 5.1.3 Vehicle Types FHWA Traffic Monitoring Guide § 4.1 Classification Schemes

The traffic volume, vehicle mix and vehicle speeds were based on information provided by Stantec. For both the existing (2019) and the design year (2045), worst noise hour traffic volumes, along with posted speeds, were used as input data in the noise prediction model. The traffic parameters used in the noise model for prediction of future noise levels are presented in Appendix A.

3.0 Traffic Noise Analysis

3.1 Noise Sensitive Sites

A receptor is a discrete or representative location of a receiver, which is a noise sensitive site or area for any of the land use categories listed in Table 2. In determining traffic noise impacts, primary consideration is given to exterior areas where frequent human use occurs, unless no exterior activities are likely based on field observation (i.e. patio of a restaurant or back yard of a single-family home). All of the noise sensitive sites modeled are within 500 feet of the nearest edge of the roadway, a sufficient distance to identify all potential impacts. The location of each receptor is shown in Appendix B.

Existing land uses within the corridor are mainly residential (Category B) with various recreational (Category C), churches (Category D) and office or restaurant patios (Category E) land uses in the corridor. Some Category F locations are also present, for which noise impacts are not defined. There are no Category A land uses in the corridor and there were no unusual features observed that could significantly influence the noise propagation environment.

The FHWA Noise Abatement Criteria (NAC), summarized in Table 2, establish criteria for traffic noise impact assessments with respect to various land uses. If one or more receivers are affected by project-related traffic noise levels that approach or exceed the abatement criteria, or that substantially exceed existing noise levels, then abatement measures must be considered. By SCDOT policy, as approved by FHWA, approaching the criteria means within 1 dBA of the appropriate FHWA abatement criteria. A substantial noise increase is defined as an increase in noise levels of 15 dBA or more in the design year above the existing noise level as a direct result of the transportation improvement project in question. If the abatement criteria is not approached or exceeded, or if projected traffic noise levels do not substantially exceed existing noise levels, abatement measures will not be considered.





Table 2: Noise Abatement Criteria

[Hourly A-Weighted Sound Level – decibels (dBA)]				
Activity Category	Activity L _{eq(h)} ¹		Evaluation Location	Description of Activity Category
A	FHWA 57	SCDOT 56	Exterior	Lands on which serenity and quiet are of extraordinary significance and serve an important public need and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose.
B ²	67	66	Exterior	Residential
C ²	67	66	Exterior	Active sports areas, amphitheaters, auditoriums, campgrounds, cemeteries, day care centers, hospitals, libraries, medical facilities, parks, picnic areas, places of worship, playgrounds, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, recreational areas, Section 4(f) sites, schools, television studios, trails, and trail crossings.
D	52	51	Interior	Auditoriums, day care centers, hospitals, libraries, medical facilities, places of worship, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, schools, and television studios.
E ²	72	71	Exterior	Hotels, motels, offices, restaurants/bars, and other developed lands, properties or activities not included in A-D or F.
F				Agriculture, airports, bus yards, emergency services, industrial, logging, maintenance facilities, manufacturing, mining, rail yards, retail facilities, shipyards, utilities (water resources, water treatment, electrical), and warehousing.
G				Undeveloped lands that are not permitted.

(Based on Table 1 of 23 CFR Part 772)

3.2 Measured Noise Levels

Existing traffic noise levels were measured in the field and then compared against TNM results to validate the traffic noise model. If the modeled and measured levels are within plus or minus 3 dBA of one another, this is an indication that the model is within the accepted level of accuracy.

3.2.1 Field Testing Procedure

Airhub and HDR staff measured traffic noise at locations that are representative of nearby noise-sensitive sites along the corridors of US 17, SC 41, Dunes West Boulevard, Park West Boulevard and Bessemer Road on both sides of the roadway. Airhub conducted measurements on September 19-21, 2017 and April 23, 2019, and HDR conducted measurements on May 2, 2018. Traffic noise measurements were conducted



¹ The L_{eq(n)} Activity Criteria values are for impact determination only, and are not design standards for noise abatement measures.

² Includes undeveloped lands permitted for this activity category.



in accordance with the FHWA-PD-96-046 Measurement of Highway Related Noise (May 1996). The average meteorological conditions were reported as shown in Table 3 below.

Table 3: Meteorological Conditions

	09/19 to 09/21, 2017	05/02/2018	04/23/2019
Temperature	≅ 79-86° F	≅ Mid to High 70° F	≅ Clear 70/71° F
Wind	< 9 mph	< 9 mph	< 9 mph
Conditions	Partly Cloudy, Clear	Clear	Clear

3.2.2 Instrumentation

Noise monitoring was conducted using a Casella CEL-63X (SLM) on September 19 and 21, 2017, Norsonic AS (SLM) on May 02, 2017 and LXT SE (SLM) on April 23, 2019. The meters were set at a height of approximately 5 feet for all measurements. The microphone was covered with a windscreen. Table 4 summarizes the instruments used to collect the monitoring data for this noise analysis report.

Table 4: Noise Analysis Instrumentation Summary

Instrument	Make	Model	Serial Number		
Date: September 19 -	September 21, 2017	7			
Sound Level Meter	Casella	CEL-63X	2145345		
Calibrator	Casella	CEL-120	2839253		
Date: May 02, 2018	Date: May 02, 2018				
Sound Level Meter	Norsonic	118	30596		
Calibrator	Norsonic AS	1251	30768		
Date: April 23, 2019					
Sound Level Meter	Larson Davis	SoundTrack LXT SE	0004864		
Calibrator	Larson Davis	Cal200	10609		

3.2.3 Field Measurement Methods

The SLM was programmed to compute the equivalent sound level (L_{eq}). L_{eq} is the steady-state sound level that contains the same amount of acoustic energy as the actual time varying sound level over the measurement period. L_{eq} is measured in A-weighted decibels (dBA), which closely approximates the range of frequencies a human ear can hear. The following procedures were used for noise monitoring:

- The duration of the L_{eq} measurements was 15-30 minutes.
- The SLM was calibrated before and after monitoring. No significant calibration drifts were detected during the analysis.
- The microphone was mounted on a tripod 5 feet above the ground.
- The microphone was covered with a windscreen.
- Traffic was counted manually, classified by vehicle type, and used as input in the validation of the FHWA Traffic Noise Model.
- Vehicle speeds were determined by posted speed.





3.2.4 Field Measurement Locations

Table 5 describes the locations of each of the validation sites within the project corridor.

Table 5: Noise Validation Location Summary

Measurement Location	Description
A	US-17 AB McConnell General Merchandise
В	US-17 Carolina Physical Therapy
С	Lake Crest Ct - Colonnade
D	WB/ Elijah Smalls Rd
E	Nehemiah Rd – Phillips Manor
F	2080 Kings Gate Lane
G	Easement
Н	2571 SC-41 South
1	Harpers Ferry Way
J	Hamlin Road/ Residential area near US 17
K	Porchers Bluff at Church
L	Winnowing Way
M	Homes Southern End of Bessemer
N	Park West Baseline
0	Townhomes
Р	County Park
Q	Homes at Kirby Lane
R	2576 Larch Lane
S	3101 Kilby lane
Т	1646 Bridwell Lane
U 2451 Draymohr Court	
V	3029 Park W. Blvd.
W	3015 Dunes W. Blvd.

Validation locations are shown in Figure 4, and are located throughout the project area. Data Collection Sheets are in Appendix D.

3.2.5 Model Validation Results

The measured and predicted noise levels for each of the monitoring sites selected along the project corridor are presented in Table 6. Each set of predicted and measured data was found to be within the acceptable plus or minus 3 dBA tolerance. Noise measurements M through Q were performed along the proposed new Alternative 7A alignment to help in establishing background ambient noise levels and were not used for validation of the noise model. The duration of each measurement was 15 minutes for all sites other than M through Q, where 30-minute measurements were used to establish background levels.



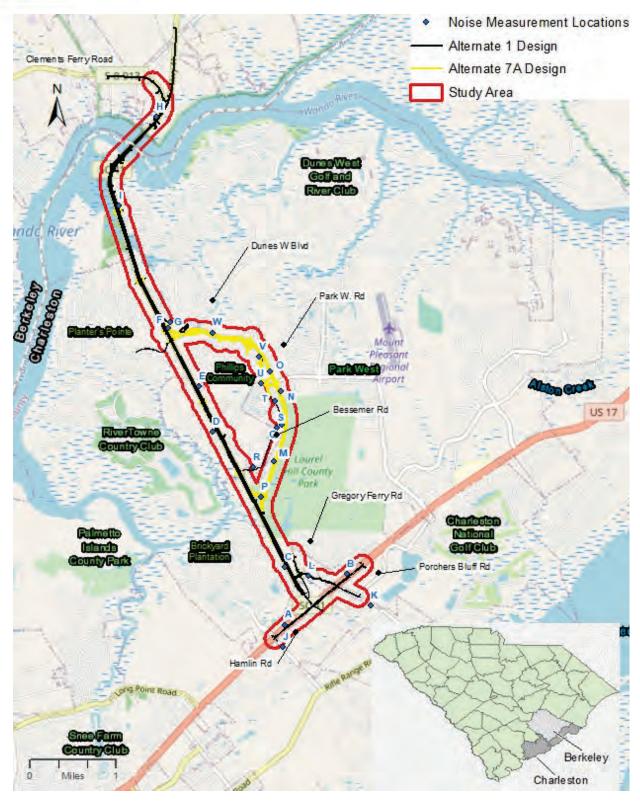


Figure 4: Field Measurement/Validation Locations

Table 6: Model Validation Results





Measurement	Date and Start Time		L _{Aeq1h} (dBA)	
Location		Measured	Predicted	Difference
А	9/21/17, 10:50 am	71.0	68.2	-2.8
В	9/21/17, 9:40 am	65.3	65.4	+0.1
С	9/20/17, 2:53 pm	58.9	61.1	+2.2
D	9/20/17, 11:46 am	55.6	54.4	-1.2
Е	9/20/17, 11:15 am	57.1	55.5	-1.6
F	9/19/17, 2:25 pm	50.2	49.6	-0.6
G	9/19/17, 2:52 pm	57.9	60.0	+2.1
Н	9/20/17, 10:37 am	65.2	67.8	+2.6
1	9/20/17, 9:39 am	62.3	59.8	-2.5
J	4/23/19, 6:35 pm	64.4	62.8	-1.6
K	4/23/19, 5:25 pm	54.5	55.6	+1.1
L	4/23/19, 5:02 pm	54.6	54.9	+0.3
М	4/23/19, 1:56 pm	49.1	¹ Background noi	se measurement
N	4/23/19, 12:20 pm	45.1	¹ Background noise measurement	
0	4/23/19, 11:00 am	44.8	¹ Background noi	se measurement
Р	4/23/19, 2:55 pm	51.1	¹ Background noi	se measurement
Q	4/23/19, 1:10 pm	44.6	¹ Background noi	se measurement
R	5/2/18, 9:19 am	53.3	53.8	+0.5
S	5/2/18, 9:42 am	57.0	55.1	-1.9
Т	5/2/18, 10:05 am	60.4	58.1	-2.3
U	5/2/18, 10:27 pm	54.3	53.4	-0.9
V	5/2/18, 10:52 am	51.0	53.3	+2.3
W	5/2/18, 11:13 am	54.1	55.6	+1.5

Note 1: These measurements were performed to establish ambient noise levels at areas where a new alignment is proposed.

3.3 Traffic Noise Modeling

To calculate existing noise levels and predict future design year noise levels, FHWA's TNM version 2.5 was used to model noise sensitive receiver locations on existing and future roadway alignment with traffic volumes and posted speeds. The modeled noise level results reflect the existing field conditions, no build and future conditions along the proposed roadway alignment alternatives (Table 10, Appendix C). The following was assumed for the modeling:

- All travel lanes were included in the TNM model.
- Worst noise hour traffic volumes and truck percentages were used. Traffic volumes represent the
 volume that is lower between the Level of Service C volume and peak hour volume. Traffic data is
 included in Appendix A.
- Vehicle speeds of 45 MPH were used on SC 41 and US 17.
- All requirements of the SCDOT noise policy are followed:
 - Terrain features larger than 5 feet are defined by terrain lines (none were identified within the study area).
 - Ground zones are included where there is a non-default ground type between the roadway and a receptor
 - Shoulders and medians are modeled as no-traffic roadways, or as ground zones if jersey barriers are present.



- Features including building rows, barriers, terrain lines and ground zones are included only between receptors and roadways.
- Ground elevations for all inputs to the model, including roadways, receptors, building barriers, and barriers in the barrier analyses are defined.
- A land use survey was conducted for the project area. The corresponding Noise Abatement Criteria (NAC) category from the SCDOT Traffic Noise Abatement Policy was used for identified receivers. Noise sensitive receivers were assigned a NAC category B, C, D, E or F.

3.4 Noise Impact Analysis

The existing (2019) and design year (2045) traffic noise levels for the Existing, No-Build, and Build Alternatives were predicted for 1378 sites (each representing 1 receiver) using the FHWA's latest traffic noise modeling software, TNM 2.5. Conceptual design plans overlaid on project aerials were used in conjunction with field reviews to develop the horizontal and vertical coordinate input data required by TNM for roadway centerlines and other features. Receptor locations were identified from both project aerials and from driving the corridor (See Appendix B). Results of the noise analysis are discussed below.

Existing and No-Build Alternatives

Based on the detailed noise analysis for the 2019 "Existing" Alternative, noise levels would approach or exceed the NAC established in the *SCDOT Traffic Noise Abatement Policy* for 36 out of 1378 noise sensitive receivers. Noise levels for the existing condition ranged from 44.6 to 74.3 dBA.³

Based on the detailed noise analysis for the 2045 "No-Build" Alternative, noise levels would approach or exceed the NAC established in the *SCDOT Traffic Noise Abatement Policy* for 66 out of 1378 noise sensitive receivers. Noise levels for the no-build condition ranged from 44.6 to 77.7 dBA. Traffic noise levels resulting from the design year (2045) No-Build Alternative are expected to increase from 0 to 5.4 dBA over the (2019) Existing Alternative. Table 7 lists a summary of the noise impacts associated with the existing and no-build alternatives. The majority of the impacts would be to NAC Category B (residences). Table 10 in Appendix C lists detailed results for each receptor.

Build Alternative 1

Based on the detailed noise analysis for the 2045 Build Alternative 1, noise levels would approach or exceed the NAC established in the *SCDOT Traffic Noise Abatement Policy* for 60 out of 1049 noise sensitive receivers, including 58 Category B receivers and 2 Category E receivers. 329 receivers were not analyzed due to being more than 500 feet from roadway modifications in this alternative. Noise levels for the build condition ranged from 44.6 to 76.7 dBA. Traffic noise levels resulting from (2045) Build Alternative 1 are expected to vary between -1.9 to 9.8 dBA compared to existing levels. Fluctuations in build traffic noise levels over existing traffic noise levels can occur due to changes in predicted traffic or shifts in alignment closer to or away from receptors. There were no impacts due to substantial increase in noise levels of at least 15 dB. Table 7 lists a summary of the noise impacts associated with Build Alternative 1. The majority of the impacts would be to NAC Category B (residences). Table 10 in Appendix C lists detailed results for each receiver.

³ For all modeled scenarios, TNM results lower than the lowest measured ambient level of 44.6 dBA were replaced with 44.6 dBA.





Build Alternative 7A

Based on the detailed noise analysis for the 2045 Build Alternative 7A, noise levels would approach or exceed the NAC established in the *SCDOT Traffic Noise Abatement Policy* for 68 out of 1378 noise sensitive receivers, including 66 Category B receivers and 2 Category E receivers. Additionally, 68 out of 1378 receivers were impacted due to substantial increase in noise levels of at least 15 dB⁴, including 67 Category B receivers and 1 Category C receiver. In total, 103 out of 1378 receivers were impacted, including 100 Category B receivers, 1 Category C receiver, and 2 Category E receivers. Some receivers experienced impacts both due to levels exceeding the NAC and substantial increase, but these cases are counted as one impact per receiver. Noise levels for the build condition ranged from 44.6 to 76.7 dBA. Traffic noise levels resulting from (2045) Build Alternative 7A are expected to vary between -10.8 to 27.5 dBA compared to existing levels. Fluctuations in build traffic noise levels over existing traffic noise levels can occur due to changes in predicted traffic or shifts in alignment closer or away from receptors. Table 7 lists a summary of the noise impacts associated with the Build Alternative 7A. The majority of the impacts would be to NAC Category B (residences). Table 10 in Appendix E lists detailed results for each receiver.

Table 7: Modeled Noise Impacts along SC 41 & US 17

	Year 2019	Year 2045	Year 2045 Bu	ild Alternatives
Activity Category	Existing	Future No-Build	Alternative 1	Alternative 7A
А	0	0	0	0
В	34	63	58	100
С	0	0	0	1
D	0	0	0	0
E	2	3	2	2
Total	36	66	60	103

3.5 Consideration of Noise Abatement Measures

In accordance with 23 CFR §772.13 (c) and SCDOT's Noise Abatement Policy, noise abatement measures must be considered for reducing or eliminating noise levels to impacted receivers. When considering noise

⁴ Noise impacts occur when future noise levels are predicted to approach or exceed the FHWA NAC, as well as when the future noise levels are predicted to increase substantially over existing noise levels. A substantial noise increase occurs when the existing noise level is predicted to increase by 15 dBA or more as a result of the proposed transportation improvement project. These impacts occur primarily when proposed roadway improvements are planned near noise sensitive areas, where existing noise levels are relatively low. Review of the modeled traffic noise levels presented in Appendix C indicates the proposed project for 7A Build Alternative will cause substantial increases in traffic noise levels for 68 out of 1378 noise sensitive receivers.



abatement measures, primary consideration shall be given to exterior areas where frequent human use occurs. Since South Carolina is not part of the FHWA-approved Quiet Pavement Pilot Program, the use of quieter pavements was not considered as an abatement measure for the proposed project.

In addition, the planting of vegetation or landscaping was also not considered as a potential abatement measure, since it is not an acceptable Federal-aid noise abatement measure due to the fact that only dense stands of evergreen vegetation planted 100 feet deep will reduce noise levels. The following measures were considered and evaluated as a means to reduce or eliminate the traffic noise impacts:

- · Traffic management;
- Alteration of horizontal and vertical alignments;
- Acquisition of real property or interests therein (predominantly unimproved property) to serve as a buffer zone to preempt development;
- Noise insulation of public use or nonprofit institutional structures; and,
- Noise barriers.

Table 8 outlines the different types of noise abatement measures considered and whether they were eliminated from consideration or carried forward. Of the possible noise abatement measures considered for the proposed project, only noise barriers were carried forward for consideration due to the constraints listed in Table 8 for the other options, primarily because the preliminary design was modified to minimize impacts to the greatest extent to the natural and human environment. The acquisition of additional right-of-way to alter the alignment or create a buffer zone would result in an increase in impacts.

Table 8: Mitigation Types Considered for Noise Impacts

Mitigation Type	Status
Traffic management	Eliminated. Measures such as exclusive lane designations and signing for prohibition of certain vehicle type would prevent the project from serving its intended purpose, such as moving people, goods and services.
Alteration of horizontal and vertical alignments	Eliminated. Alignment modifications as a means of noise abatement may result in disruptive relocations for this project and may affect other natural resources.
Acquisition of real property or interests therein (predominantly unimproved property)	Eliminated. The taking of adequate property to create an effective buffer zone would most likely involve taking the impacted receivers and would require purchasing additional right-of-way. Additionally, receivers that are farther from the road are likely not impacted.
Noise insulation of public use or nonprofit institutional structures	Eliminated. No public use or nonprofit institutional structures would be impacted by the proposed project.
Noise barriers	Carried forward for further consideration.



There are feasibility and reasonableness criteria that must be met for construction of noise walls. Noise walls are assessed under the feasibility criteria first, and if all conditions are met are then considered for reasonableness. There are two feasibility criteria. Per SCDOT policy acoustic feasibility means that a noise reduction of at least 5 dBA must be achieved for 75% of impacted receivers. There are also seven engineering and design considerations that must be achieved to meet the engineering feasibility criteria. These considerations include topography, safety, drainage, utilities, maintenance, access, and wall height.

As with feasibility, there are several reasonableness criteria that must be met. These include:

- Noise Reduction Design Goal It is SCDOT's policy that a noise reduction of at least 8 dBA must be achieved for 80% of those receivers determined to be in the first two building rows and considered benefited.
- Cost Effectiveness The allowable cost of the abatement is based on \$35.00 per square foot. This
 allowable cost is based on the cost effectiveness criteria found in SCDOT's Traffic Noise Abatement
 Policy. This construction cost will be divided by the number of benefited receivers. If the cost per
 benefited receiver is less than \$30,000 then the barrier is determined to be cost effective.
- Property Owners and Residents SCDOT will solicit the viewpoints of all of the benefited receivers
 and document a decision on either desiring or not desiring the noise abatement measure. A noise
 wall will be constructed unless a majority (greater than 50% of the benefited receivers) of votes not
 desiring noise abatement is received (p.24 of policy). This third criterion is only considered if the
 noise wall meets the first two criteria.

The three mandatory reasonable factors must collectively be achieved in order for a noise abatement measure to be deemed reasonable. Failure to achieve any one of the reasonable factors will result in the noise abatement measure being deemed not reasonable.

Specific noise mitigation, including noise barriers, will be examined further in the detailed noise analysis for impacted receiver locations. Noise barriers will be recommended for those areas that are able to meet the SCDOT specific feasibility and reasonableness criteria. SCDOT feasibility and reasonableness worksheets are included in Appendix E.

3.5.1 Barrier Analysis Results - Alternative 1

This section discusses the evaluations of feasibility and reasonableness performed on the barriers that could potentially mitigate projected traffic noise impacts in Alternative 1. Barrier locations are shown on receptor maps in Appendix B.

Barrier 7a – Impacted Receiver 83-1

Barrier 7a is a 260-foot long noise wall whose height is 14 feet. This wall would be located on the west side of SC 41 north of Tradewind Drive.

Feasibility:

Engineering Feasibility: No known issues at this time.

Acoustic Feasibility: SCDOT noise policy states that a noise reduction of at least 5 dBA must be achieved for 75 percent of the impacted receivers. This was achieved for the single impacted receiver (100%). This meets the SCDOT allowable percentage (75%) of impacted receivers. A total of three receivers (including impacted and non-impacted) achieved at least 5 dBA of noise reduction.



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Reasonableness:

Noise Reduction Design Goal: SCDOT noise policy states that a noise reduction of at least 8 dBA must be achieved for 80 percent of the benefited receivers in the first two building rows. Of the three benefited receivers in the first two rows, there was one that achieved the 8 dBA reduction (33%). This does not meet the SCDOT allowable percentage (80%) of the benefited receivers.

Cost Effectiveness: The cost effectiveness analysis is not applicable since the noise reduction design goal was not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is feasible but not reasonable, and is not proposed as part of this project.

Barrier 9 – Impacted Receiver 669

Barrier 9 is a 700-foot long noise wall whose average height is 15 feet. This wall would be located on the east side of SC 41 north of Harpers Ferry Way.

Feasibility:

Engineering Feasibility: No known issues at this time.

Acoustic Feasibility: SCDOT noise policy states that a noise reduction of at least 5 dBA must be achieved for 75 percent of the impacted receivers. This was achieved for the single impacted receiver (100%). This meets the SCDOT allowable percentage (75%) of impacted receivers. A total of 14 receivers (including impacted and non-impacted) achieved at least 5 dBA of noise reduction.

Reasonableness:

Noise Reduction Design Goal: SCDOT noise policy states that a noise reduction of at least 8 dBA must be achieved for 80 percent of the benefited receivers in the first two building rows. Of the 10 benefited receivers in the first two rows, there were 3 that achieved the 8 dBA reduction (30%). This does not meets the SCDOT allowable percentage (80%) of the benefited receivers.

Cost Effectiveness: The cost effectiveness analysis is not applicable since the noise reduction design goal was not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is feasible but not reasonable, and is not proposed as part of this project.

Barrier 10a/b/c - Impacted Receiver 2

Barrier 10 is a 700-foot long system of noise walls. This wall would be located on the west side of SC 41 across from the SC 41/ Clements Ferry intersection.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.





Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 11a/b - Impacted Receiver 4

Barrier 11 is a 615-foot long system of noise walls. This wall would be located on the west side of SC 41 north of the Wando River Bridge.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 13a/b - Impacted Receivers 215, 216

Barrier 13 is a 640-foot long system of noise walls. This wall would be located on the east side of SC 41 north of Nehemiah Road.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 14a-f – Impacted Receivers 35-39

Barrier 14 is a 1,000-foot long system of noise walls. This wall would be located on the west side of SC 41 north of Parkers Island Road.





Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 15a-e - Impacted Receivers 44-46

Barrier 15 is an 800-foot long system of noise walls. This wall would be located on the west side of SC 41 north of Elijah Smalls Road.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility. The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 16a-m - Impacted Receivers 231, 235, 236, 241-246, 249, 250

Barrier 16 is a 2,415-foot long system of noise walls. This wall would be located on the east side of SC 41 north of Bennett Charles Road to past Canyon Lane.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.





Barrier 17a-l - Impacted Receivers 742, 743, 50, 57, 62, 64, 66, 69, 70

Barrier 17 is a 2,260-foot long system of noise walls. This wall would be located on the west side of SC 41 north of Joe Rouse Road.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 18a/b - Impacted Receiver 256

Barrier 18 is a 360-foot long system of noise walls. This wall would be located on the east side of SC 41 south of Bennett Charles Road.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 19a/b - Impacted Receivers 264, 269

Barrier 19 is a 575-foot long system of noise walls. This wall would be located on the east side of SC 41 between the Joe Rouse Road entrances.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.





Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

Conclusion: Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 20 - Impacted Receivers 71, 74

Barrier 20 is a 1,200-foot noise wall whose height is 15 feet. This wall would be located on the west side of SC 41 north of Cardinal Hill Drive.

Feasibility:

Engineering Feasibility: No known issues at this time.

Acoustic Feasibility: SCDOT noise policy states that a noise reduction of at least 5 dBA must be achieved for 75 percent of the impacted receivers. This was achieved for two of the two impacted receivers (100%). This meets the SCDOT allowable percentage (75%) of impacted receivers. A total of four receivers (including impacted and non-impacted) achieved at least 5 dBA of noise reduction.

Reasonableness:

Noise Reduction Design Goal: SCDOT noise policy states that a noise reduction of at least 8 dBA must be achieved for 80 percent of the benefited receivers in the first two building rows. Of the four benefited receivers in the first two rows, there were four that achieved the 8 dBA reduction (100%). This meets the SCDOT allowable percentage (80%) of the benefited receivers.

Cost Effectiveness: The analyzed feature was deemed to be not reasonable, because the estimated cost per benefited receiver is greater than the SCDOT allowable cost (\$30,000) per benefitted receiver (\$630,000 / 4 benefited receivers = \$157,500).

Conclusion: Based on the above results of the detailed analysis, this abatement feature is feasible but not reasonable, and is not proposed as part of this project.

Barrier 21 - Impacted Receiver 284

Barrier 21 is a 212-foot noise wall whose height is 25 feet. This wall would be located on the east side of SC 41 south of Gregory Ferry Road.

Feasibility:

Engineering Feasibility: No known issues at this time.

Acoustic Feasibility: SCDOT noise policy states that a noise reduction of at least 5 dBA must be achieved for 75 percent of the impacted receivers. This was achieved for the single impacted receiver (100%). This meets the SCDOT allowable percentage (75%) of impacted receivers. A total of one receiver (including impacted and non-impacted) achieved at least 5 dBA of noise reduction.

Reasonableness:

Noise Reduction Design Goal: SCDOT noise policy states that a noise reduction of at least 8 dBA must be achieved for 80 percent of the benefited receivers in the first two building rows. The one benefited



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receiver in the first two rows did not achieve the 8 dBA reduction (0%). This does not meet the SCDOT allowable percentage (80%) of the benefited receivers.

Cost Effectiveness: The cost effectiveness analysis is not applicable since the noise reduction design goal was not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is feasible but not reasonable, and is not proposed as part of this project.

Barrier 22a-c - Impacted Receivers 129, 131

Barrier 22 is a 424- foot long system of noise walls. This wall would be located on the north side of US 17 west of the Greater Goodwill AME Church entrance.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 23a-e - Impacted Receivers 130, 132-134, 813, 814

Barrier 23 is a 515-foot long system of noise walls. This wall would be located on the north side of US 17 east of Brickyard Parkway.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 24a-d – Impacted Receivers 328, 577, 926

Barrier 24 is a 740-foot long system of noise walls. This wall would be located on the south side of US 17 on either side of Hamlin Road.





Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 25a-c - Impacted Receivers 329, 330

Barrier 25 is a 397- foot long system of noise walls. This wall would be located on the south side of US 17 on either side of Yough Hall Road and Dan Road.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility. The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 26a-d - Impacted Receivers 331, 333, 334

Barrier 26 is a 500-foot long system of noise walls. This wall would be located on the south side of US 17 east of Dingle Road.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.





Barrier 28a-d - Impacted Receivers 287-289, 573

Barrier 26 is a 710-foot long system of noise walls. This wall would be located on the north side of US 17 west of the Sunoco entrance.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Alternative 1 Barrier Analysis Summary

Based on the detailed noise analysis of 19 potential barriers to shield impacts in Alternative 1, 15 barriers were found to be not feasible due to access and safety issues, 4 barriers were found to be feasible but not reasonable, and no barrier was found to be feasible and reasonable. A summary of the barriers that were not excluded for feasibility can be found in Table 9 below. The location of the investigated barriers is shown on Figure B1 in Appendix B.

Table 9: Summary of Detailed Noise Mitigation Analysis, Alternative 1

	Alternative 1				
Barrier	Dimension	Cost	Feasible	Reasonable	Proposed
	(feet)				
7A	14 x 260	\$127,400	Yes	No	No
9	15 x 700	\$367,500	Yes	No	No
20	15 x 1,200	\$630,000	Yes	No	No
21	25 x 212	\$185,500	Yes	No	No

3.5.2 Barrier Analysis Results - Alternative 7a

This section discusses the evaluations of feasibility and reasonableness performed on the barriers that could potentially mitigate projected traffic noise impacts in Alternative 7a.

Barrier 1 - Impacted Receivers 457-467

Barrier 1 is a 925-foot long noise wall whose average height is 17.4 feet. This wall would be located on the west side of the SC 41 Bypass south of Ellington Woods Blvd.

Feasibility:

Engineering Feasibility: No known issues at this time.





Acoustic Feasibility: SCDOT noise policy states that a noise reduction of at least 5 dBA must be achieved for 75 percent of the impacted receivers. This was achieved for 11 of the 11 impacted receivers (100%). This meets the SCDOT allowable percentage (75%) of impacted receivers. A total of 22 receivers (including impacted and non-impacted) achieved at least 5 dBA of noise reduction.

Reasonableness:

Noise Reduction Design Goal: SCDOT noise policy states that a noise reduction of at least 8 dBA must be achieved for 80 percent of the benefited receivers in the first two building rows. Of the 22 benefited receivers in the first two rows, there were 18 that achieved the 8 dBA reduction (82%). This meets the SCDOT allowable percentage (80%) of the benefited receivers.

Cost Effectiveness: The analyzed feature was deemed to be reasonable, because the estimated cost per benefited receiver is less than the SCDOT allowable cost (\$30,000) per benefited receiver (\$563,325 / 22 benefited receivers = \$25,606). There are no unusual features in the vicinity of the proposed abatement feature that would impede constructability and lead to increased cost.

Conclusion: Based on the above results of the detailed analysis, this abatement feature is feasible and reasonable. If Alternative 7a is selected, a final decision on the barrier will be made after conclusion of the public involvement portion of the project.

Barrier 2 - Impacted Receivers 570-572, 991

Barrier 2 is a 1,740-foot long noise wall whose height is 20 feet. This wall would be located on the west side of SC 41 north of Park West Blvd.

Feasibility:

Engineering Feasibility: No known issues at this time.

Acoustic Feasibility: SCDOT noise policy states that a noise reduction of at least 5 dBA must be achieved for 75 percent of the impacted receivers. This was achieved for five of the five impacted receivers (100%). This meets the SCDOT allowable percentage (75%) of impacted receivers. A total of seven receivers (including impacted and non-impacted) achieved at least 5 dBA of noise reduction.

Reasonableness:

Noise Reduction Design Goal: SCDOT noise policy states that a noise reduction of at least 8 dBA must be achieved for 80 percent of the benefited receivers in the first two building rows. Of the seven benefited receivers in the first two rows, there were six that achieved the 8 dBA reduction (86%). This meets the SCDOT allowable percentage (80%) of the benefited receivers.

Cost Effectiveness: The analyzed feature was deemed to be not reasonable, because the estimated cost per benefited receiver is greater than the SCDOT allowable cost (\$30,000) per benefitted receiver (\$1,218,000 / 7 benefited receivers = \$174,000).

Conclusion: Based on the above results of the detailed analysis, this abatement feature is feasible but not reasonable, and is not proposed as part of this project.



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Barrier 3- Impacted Receivers 420-432, 434-439

Barrier 3 is a 1,173-foot long noise wall whose average height is 14.4 feet. This wall would be located on the west side of the SC 41 Bypass north of Park West Blvd.

Feasibility:

Engineering Feasibility: No known issues at this time.

Acoustic Feasibility: SCDOT noise policy states that a noise reduction of at least 5 dBA must be achieved for 75 percent of the impacted receivers. This was achieved for 19 of the 19 impacted receivers (100%). This meets the SCDOT allowable percentage (75%) of impacted receivers. A total of 20 receivers (including impacted and non-impacted) achieved at least 5 dBA of noise reduction.

Reasonableness:

Noise Reduction Design Goal: SCDOT noise policy states that a noise reduction of at least 8 dBA must be achieved for 80 percent of the benefited receivers in the first two building rows. Of the 20 benefited receivers in the first two rows, there were 20 that achieved the 8 dBA reduction (100%). This meets the SCDOT allowable percentage (80%) of the benefited receivers.

Cost Effectiveness: The analyzed feature was deemed to be reasonable, because the estimated cost per benefited receiver is less than the SCDOT allowable cost (\$30,000) per benefitted receiver (\$591,192 / 20 benefited receivers = \$29,560). There are no unusual features in the vicinity of the proposed abatement feature that would impede constructability and lead to increased cost.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is feasible and reasonable. If Alternative 7a is selected, a final decision on the barrier will be made after conclusion of the public involvement portion of the project.

Barrier 4 - Impacted Receivers 698, 372-1 through 386-1, 393-1, 394-1

Barrier 4 is a 3,870-foot long noise wall whose height is 20 feet. This wall would be located on the east side of the SC 41 Bypass south of Park West Blvd.

Feasibility:

Engineering Feasibility: No known issues at this time.

Acoustic Feasibility: SCDOT noise policy states that a noise reduction of at least 5 dBA must be achieved for 75 percent of the impacted receivers. This was achieved for 29 of the 35 impacted receivers (83%). This meets the SCDOT allowable percentage (75%) of impacted receivers. A total of 32 receivers (including impacted and non-impacted) achieved at least 5 dBA of noise reduction.

Reasonableness:

Noise Reduction Design Goal: SCDOT noise policy states that a noise reduction of at least 8 dBA must be achieved for 80 percent of the benefited receivers in the first two building rows. Of the 28 benefited receivers in the first two rows, there were 24 that achieved the 8 dBA reduction (86%). This meets the SCDOT allowable percentage (80%) of the benefited receivers.





Cost Effectiveness: The analyzed feature was deemed to be not reasonable, because the estimated cost per benefited receiver is greater than the SCDOT allowable cost (\$30,000) per benefitted receiver (\$2,709,000 / 32 benefited receivers = \$84,656).

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is feasible but not reasonable, and is not proposed as part of this project.

Barrier 5 - Impacted Receivers 342-349

Barrier 5 is a 1,314-foot long noise wall whose height is 25 feet. This wall would be located on the east side of the SC 41 bypass south of Bessemer Road.

Feasibility:

Engineering Feasibility: No known issues at this time.

Acoustic Feasibility: SCDOT noise policy states that a noise reduction of at least 5 dBA must be achieved for 75 percent of the impacted receivers. This was achieved for eight of the eight impacted receivers (100%). This meets the SCDOT allowable percentage (75%) of impacted receivers. A total of ten receivers (including impacted and non-impacted) achieved at least 5 dBA of noise reduction.

Reasonableness:

Noise Reduction Design Goal: SCDOT noise policy states that a noise reduction of at least 8 dBA must be achieved for 80 percent of the benefited receivers in the first two building rows. Of the ten benefited receivers in the first two rows, there were six that achieved the 8 dBA reduction (60%). This does not meet the SCDOT allowable percentage (80%) of the benefited receivers.

Cost Effectiveness: The cost effectiveness analysis is not applicable since the noise reduction design goal was not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is feasible but not reasonable, and is not proposed as part of this project.

Barrier 6 - Impacted Receivers 624-642

Barrier 6 is a 1,985-foot long noise wall whose height is 15 feet. This wall would be located on the east side of the SC 41 bypass north of the connection to old SC 41.

Feasibility:

Engineering Feasibility: No known issues at this time.

Acoustic Feasibility: SCDOT noise policy states that a noise reduction of at least 5 dBA must be achieved for 75 percent of the impacted receivers. This was achieved for 20 of the 22 impacted receivers (100%). This meets the SCDOT allowable percentage (75%) of impacted receivers. A total of 20 receivers (including impacted and non-impacted) achieved at least 5 dBA of noise reduction.

Reasonableness:

Noise Reduction Design Goal: SCDOT noise policy states that a noise reduction of at least 8 dBA must be achieved for 80 percent of the benefited receivers in the first two building rows. Of the 20 benefited





receivers in the first two rows, there were 16 that achieved the 8 dBA reduction (80%). This meets the SCDOT allowable percentage (80%) of the benefited receivers.

Cost Effectiveness: The analyzed feature was deemed to be not reasonable, because the estimated cost per benefited receiver is greater than the SCDOT allowable cost (\$30,000) per benefitted receiver (\$1,042,125 / 20 benefited receivers = \$52,106).

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is feasible but not reasonable, and is not proposed as part of this project.

Barrier 7a – Impacted Receivers 83-1

Barrier 7a is a 260-foot long noise wall whose height is 14 feet. This wall would be located on the west side of SC 41 on either side of Tradewind Drive.

Feasibility:

Engineering Feasibility: No known issues at this time.

Acoustic Feasibility: SCDOT noise policy states that a noise reduction of at least 5 dBA must be achieved for 75 percent of the impacted receivers. This was achieved for the single impacted receiver (100%). This meets the SCDOT allowable percentage (75%) of impacted receivers. A total of two receivers (including impacted and non-impacted) achieved at least 5 dBA of noise reduction.

Reasonableness:

Noise Reduction Design Goal: SCDOT noise policy states that a noise reduction of at least 8 dBA must be achieved for 80 percent of the benefited receivers in the first two building rows. Of the one benefited receiver in the first two rows, there was one that achieved the 8 dBA reduction (50%). This does not meet the SCDOT allowable percentage (80%) of the benefited receivers.

Cost Effectiveness: The cost effectiveness analysis is not applicable since the noise reduction design goal was not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is feasible but not reasonable, and is not proposed as part of this project.

Barrier 10a/b/c - Impacted Receiver 2

Barrier 10 is a 700-foot long system of noise walls. This wall would be located on the west side of SC 41 across from the SC 41/ Clements Ferry intersection.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.





<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 11a/b - Impacted Receiver 4

Barrier 11 is a 615-foot long system of noise walls. This wall would be located on the west side of SC 41 north of the Wando River Bridge.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 21 – Impacted Receiver 284

Barrier 21 is a 212-foot noise wall whose height is 25 feet. This wall would be located on the east side of SC 41 south of Gregory Ferry Road.

Feasibility:

Engineering Feasibility: No known issues at this time.

Acoustic Feasibility: SCDOT noise policy states that a noise reduction of at least 5 dBA must be achieved for 75 percent of the impacted receivers. This was achieved for the single impacted receiver (100%). This meets the SCDOT allowable percentage (75%) of impacted receivers. A total of one receiver (including impacted and non-impacted) achieved at least 5 dBA of noise reduction.

Reasonableness:

Noise Reduction Design Goal: SCDOT noise policy states that a noise reduction of at least 8 dBA must be achieved for 80 percent of the benefited receivers in the first two building rows. The one benefited receiver in the first two rows did not achieve the 8 dBA reduction (0%). This does not meet the SCDOT allowable percentage (80%) of the benefited receivers.

Cost Effectiveness: The cost effectiveness analysis is not applicable since the noise reduction design goal was not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is feasible but not reasonable, and is not proposed as part of this project.

Barrier 22a-c - Impacted Receivers 129, 131

Barrier 22 is a 424-foot long system of noise walls. This wall would be located on the north side of US 17 west of the Greater Goodwill AME Church entrance.





Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 23a-e - Impacted Receivers 130, 132-134, 813, 814

Barrier 23 is a 515-foot long system of noise walls. This wall would be located on the north side of US 17 east of Brickyard Parkway.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 24a-d - Impacted Receivers 328, 577, 926

Barrier 24 is a 740-foot long system of noise walls. This wall would be located on the south side of US 17 on either side of Hamlin Road.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.





Barrier 25a-c - Impacted Receivers 329, 330

Barrier 25 is a 397-foot long system of noise walls. This wall would be located on the south side of US 17 on either side of Yough Hall Road and Dan Road.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 26a-d - Impacted Receivers 331, 333, 334

Barrier 26 is a 500-foot long system of noise walls. This wall would be located on the south side of US 17 east of Dingle Road.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.

Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Barrier 28a-d – Impacted Receivers 287-289, 573

Barrier 28 is a 710-foot long system of noise walls. This wall would be located on the north side of US 17 west of the Sunoco entrance.

Feasibility:

Engineering Feasibility: Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be feasible.

Acoustic Feasibility: The acoustic feasibility analysis is not applicable because the engineering feasibility requirements were not met.





Reasonableness:

The reasonableness analysis is not applicable because feasibility requirements were not met.

<u>Conclusion:</u> Based on the above results of the detailed analysis, this abatement feature is not feasible, and is not proposed as part of this project.

Alternative 7a Barrier Analysis Summary

Based on the detailed noise analysis of 16 potential barriers to shield impacts in Alternative 7a, eight barriers were found to be not feasible due to access and safety issues, six barriers were found to be feasible but not reasonable, and two barriers were found to be feasible and reasonable pending the public involvement process and selection of an alternative. A summary of the barriers that were not excluded for feasibility can be found in Table 10 below. The location of the investigated barriers is shown on Figure B2 in Appendix B.

Table 10: Summary of Detailed Noise Mitigation Analysis, Alternative 7a

	Alternative 7a												
Barrier	Dimension (feet)	Cost	Feasible	Reasonable	Proposed								
1	17.4 (average) x 925	\$563,325	Yes	Yes	Yes								
2	20 x 1,740	\$1,218,000	Yes	No	No								
3	14.4 x 1,1173	\$591,192	Yes	Yes	Yes								
4	20 x 3,870	\$2,709,000	Yes	No	No								
5	25 x 1,314	\$1,149,750	Yes	No	No								
6	15 x 1,985	\$1,042,125	Yes	No	No								
7A	14 x 260 (total)	\$127,400	Yes	No	No								
21	25 x 212	\$185,500	Yes	No	No								

3.6 Construction Noise

The major construction elements of this project are expected to include earth removal, hauling, grading, bridge construction, and paving. General construction noise impacts, such as temporary speech interference for passers-by and those individuals living or working near the project, can be expected particularly from paving operations, pile driving at bridges, and earth moving equipment during grading operations. Table 11 summarizes noise level ranges for typical highway construction equipment.

During evening and nighttime hours, steady-state construction noise emissions such as from paving operations will be audible, and may cause impacts to activities such as sleep. Sporadic evening and nighttime construction equipment noise emissions such as from backup alarms, lift gate closures ("slamming" of dump truck gates), etc., will be perceived as distinctly louder than the steady-state acoustic environment, and could cause impacts to the general peace and usage of noise-sensitive areas – particularly residences.

There are 1378 receivers in the project noise study area, including Category B (residential), Category C (recreational), D (churches) and E (restaurant patios) land uses in the corridor that may be exposed to



construction noise. Extremely loud construction noise activities such as usage of pile-drivers and impact-hammers (jackhammer, hoe-ram) will provide sporadic, temporary, and significant construction noise impacts in the near vicinity of those activities (Table 9). It is the recommendation of this TNR that construction activities that will produce extremely loud noises be scheduled during times of the day when such noises will create as minimal disturbance as possible.

Table 11: Equipment Noise Levels and Extent of Construction Noise

Equipment	Nois	se Level Emissio 70	ns (dB(A)) at 50 F 80 90	Feet From Equip	ment ¹
Pile Driver					
Jack Hammer					
Tractor					
Road Grader					
Backhoe					
Truck					
Paver					
Pneumatic Wrench					
Crane					
Concrete Mixer					
Compressor					
Front-End Loader					
Generator					
Saws					
Roller (Compactor)					



Source: Adapted from Noise Construction Equipment and Operations, Building Equipment, and Home Appliances. U.S. Environmental Protection Agency. Washington D.C. 1971.

¹Cited noise level ranges are typical for the equipment cited. Noise energy dissipates as a function of distance between the source and the receiver. For example, if the noise level from a pile driver at a distance of 50 feet = 100 decibels (dB(A)), then at 400 feet, it might be 82 decibels (dB(A)) or less.

Generally, low-cost and easily implemented construction noise control measures should be incorporated into the project plans and specifications to the extent possible. These measures include, but are not limited to, work-hour limits, equipment exhaust muffler requirements, haul-road locations, elimination of "tail gate banging", ambient-sensitive backup alarms, construction noise complaint mechanisms, and consistent and transparent community communication.

While discrete construction noise level prediction is difficult for a particular receiver or group of receivers, it can be assessed in a general capacity with respect to distance from known or likely project activities. For this project, earth removal, grading, hauling, paving, and pile driving are anticipated to occur near noise-sensitive areas. Although construction noise impact abatement should not place an undue burden upon the financial cost of the project or the project construction schedule, pursuant to the requirements of Title 23 CFR 772.19, it is the recommendation of this traffic noise analysis that:

- Earth removal, grading, hauling, and paving activities should be limited to weekday daytime hours.
- If meeting the project schedule requires that earth removal, grading, hauling and/or paving must occur during evening, nighttime, and/or weekend hours in the vicinity of residential neighborhoods, the Contractor shall notify Charleston County and SCDOT as soon as possible. In such instance(s), all reasonable attempts shall be made to notify and to make appropriate arrangements for the abatement of the predicted construction noise impacts upon the affected property owners and/or residents.
- If construction noise activities must occur during context-sensitive hours in the vicinity of noisesensitive areas, discrete construction noise abatement measures including, but not limited to, portable noise barriers and/or other equipment-quieting devices shall be considered.
- Some construction activities will create extreme noise impacts for nearby noise sensitive land uses. For example, pile-driving activities can create noise impacts for distances of up to 0.25 mile. It is the recommendation of this TNR that considerations be made for any nearby residences for all evening and/or nighttime periods (7:00 p.m. 7:00 a.m.), and for all weekend hours throughout which extremely loud construction activities might occur.

For additional information on construction noise, please refer to the FHWA Construction Noise Handbook (FHWA-HEP-06-015) and the Roadway Construction Noise Model (RCNM), available online at: https://www.fhwa.dot.gov/environment/noise/construction_noise/index.cfm.

4.0 Public Coordination

The initial public information meeting was held on November 13, 2017. Numerous commenters expressed concern about potential noise impacts on their properties. Stakeholder Working Group meetings were held on September 26, 2017, April 26, 2018, November 14, 2018, and March 6, 2019. Additional meetings included four meetings with leadership from community, neighborhood and business groups on April 25-26, 2018, the Public Information Meeting for Alternatives on May 16, 2018, and a series of community/HOA meetings on March 5-6, 2019. Concerns about noise impacts received during the additional meetings are consistent with those from the initial public information meeting.





Noise impacts will be discussed at upcoming public meetings, community meetings, and Stakeholder Working Groups. After completion of the Detailed Noise Analysis, public coordination will occur to solicit viewpoints on noise abatement from benefited receivers.

5.0 Coordination with Local Officials

In order to help local officials and developers consider highway traffic noise in the vicinity of a proposed Type I project, Charleston County will inform them of the predicted future noise levels and the required distance from such projects needed to ensure that noise levels remain below the NAC for each type of land use in accordance with 23 CFR §772.17. The contour distances to the 66 and 71 dBA sound levels are shown in Table 12. Please note that the values in the table do not represent predicted levels at every location at a particular distance back from the roadway. Sound levels will vary with changes in terrain and will be affected by the shielding of objects such as buildings and tree zones. These locations were chosen in areas where there is potential for future development. Charleston County will provide this information to the Town of Mount Pleasant. Contact information for the local planning and development director is included below.

Mr. Jeff Ulma, Director Planning and Development Department 100 Ann Edwards Lane Mt. Pleasant, SC 29464

Table 12: Contour Distances for Land Use Planning (dBA)

Location	Distance to 66 dBA (Category B/C Impact)	Distance to 71 dBA (Category E Impact)								
Alternative 1										
SC 41 north of Dunes 110 ft 50 ft										
SC 41 between Dunes and Bessemer	90 ft	40 ft								
SC 41 south of Bessemer	120 ft	50 ft								
US 17 east of SC 41	140 ft	60 ft								
US 17 west of SC 41	150 ft	70 ft								
А	Alternative 7a									
SC 41 north of bypass	100 ft	40 ft								
Old SC 41	20 ft	Within ROW								
SC 41 bypass	70 ft	10 ft								
SC 41 south of bypass	120 ft	50 ft								
US 17 east of SC 41	140 ft	60 ft								
US 17 west of SC 41	150 ft	70 ft								



6.0 Conclusion

Traffic noise and temporary construction noise can be a consequence of transportation projects, especially in areas in close proximity to high-volume and high-speed existing steady-state traffic noise sources. This analysis was conducted to evaluate the potential noise impacts associated with the proposed realignment of SC 41 and improvements on US 17. This noise analysis utilized computer models created with the FHWA v. 2.5 TNM to predict existing and future noise levels and define impacted receivers along the proposed new highway project. In addition to parameters utilized for the Preliminary Noise Analysis, receiver and roadway elevations, existing structures, and distinctive ground zones were used to more precisely assess existing and future noise levels and determine impacts.

The results of the noise analysis indicate that 60 traffic-related noise impacts and 103 traffic-related noise impacts would occur under Build Alternative 1 and Build Alternative 7A respectively. Traffic noise levels resulting from (2045) Build Alternative 1 are expected to vary between -1.9 to 9.8 dBA compared to existing conditions. Traffic noise levels resulting from (2045) Build Alternative 7A are expected to vary between -10.8 to 27.5 dBA compared to existing conditions.

Specific noise mitigation, including noise barriers, were examined further in the detailed noise analysis for all impacted receiver locations. Noise barriers were recommended for those areas that are able to meet the SCDOT specific feasibility and reasonableness criteria. Out of 19 barriers examined for Alternative 1, none were found to be feasible and reasonable. Out of 16 barriers examined for Alternative 7a, two were found to be feasible and reasonable pending public input and selection of a preferred alternative.

Construction noise impacts will occur due to the close proximity of noise-sensitive receivers to project construction activities. Construction noise control measures will be incorporated into the project plans and specifications.



7.0 References

South Carolina Department of Transportation, Traffic Noise Abatement Policy, Issued: August 2014, Effective: September 1, 2014.

- U.S. Department of Transportation, Federal Highway Administration. Measurement of Highway-Related Noise. FHWA Report Number FHWA-PD-96-046. May 1996.
- U.S. Department of Transportation, Federal Highway Administration. FHWA Traffic Noise Model: User's Guide. FHWA Report Number FHWA-PD-96-009. January, 1998.
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2011. Highway Traffic Noise: Analysis and Abatement Guidance. 2011.

Lee, Cynthia S.Y. and Fleming, Gregg G. Measurement of Highway-Related Noise. U.S. Department of Transportation Research and Special Programs Administration John A. Volpe National Transportation Systems Center Acoustics Facility, DTS-75. Cambridge, MA. May 1996.

U.S. Environmental Protection Agency (EPA). Noise from Construction Equipment and Operations, Building Equipment, and Home Appliances. Washington, D.C. 1971.



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Appendix A - Traffic

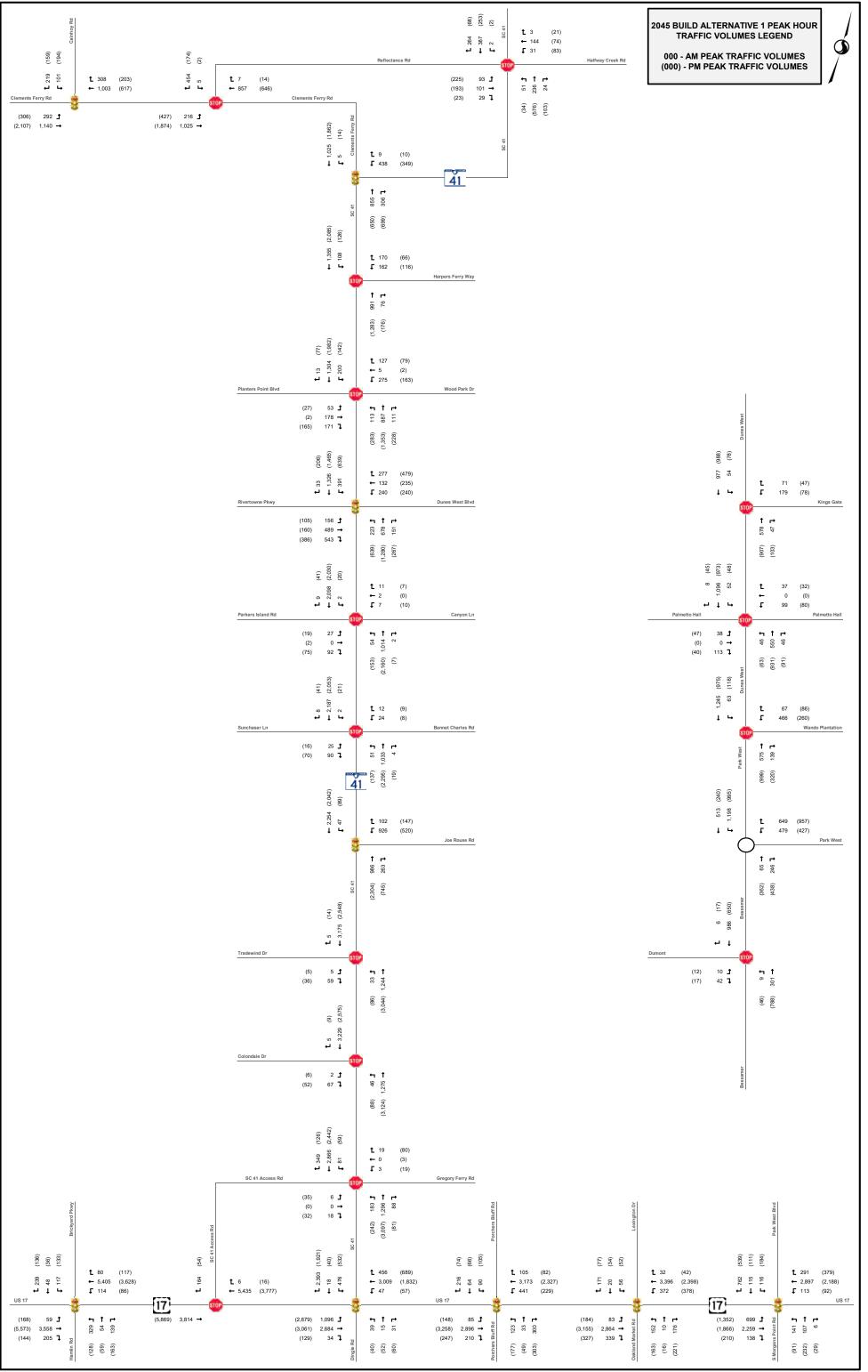


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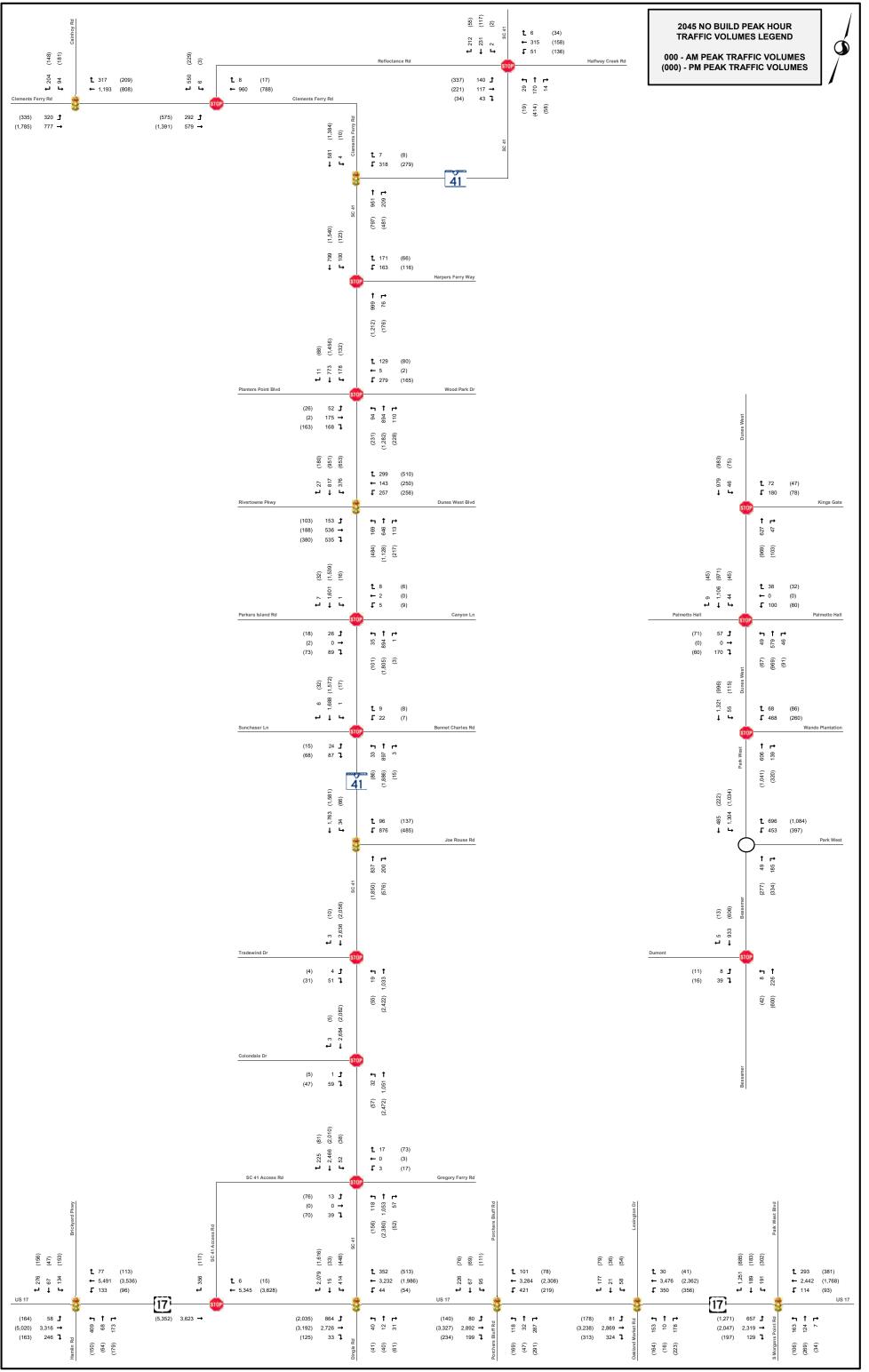


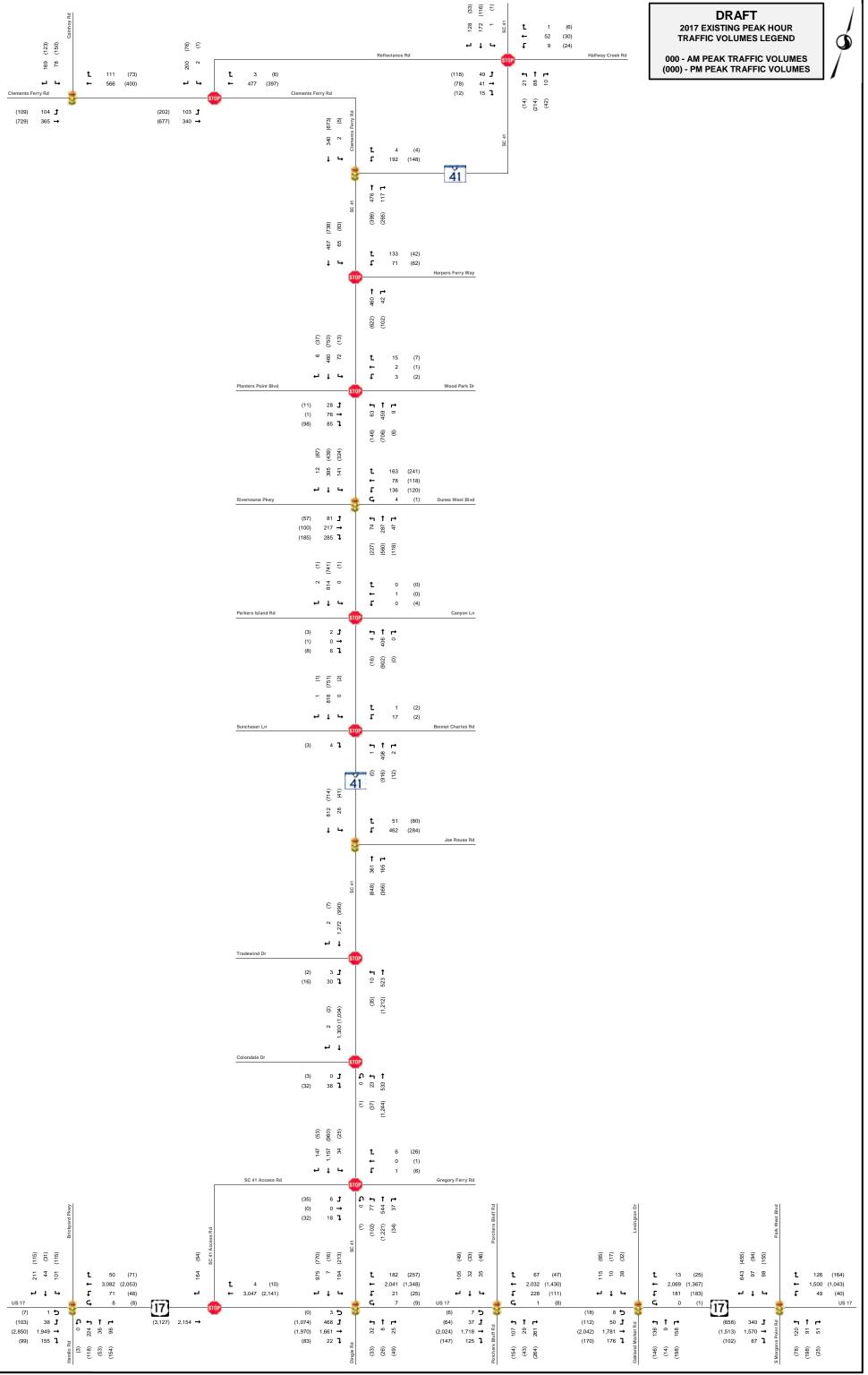
		<u>Links</u>		51.07			2045 E	Build Alt 1			
ġ.	F	T-	Di-	PHV Source:	Min.	Auto	MT	HT	%Auto	%MT	%HT
Seg.	From	То	Dir.	Source.	PHV (vph)	(vph)	(vph)	(vph)	%Auto	%IVI I	%H1
	Study Limit North	Clements Ferry Rd	NB	Pk Hr	713	694	14	5	97%	2%	1%
	Study Littil - North	Clements Ferry Rd	SB	Pk Hr	447	435	8	3	97%	2%	1%
	Clomonto Form Pd	Harpers Ferry Way	NB	Pk Hr	1,485	1,449	24	12	98%	2%	1%
	Ciements Ferry Nu	Tialpels Felly Way	SB	LOS C	1,880	1,861	19	0	99%	1%	0%
	Harners Ferry Way	Wood Park Dr	NB	Pk Hr	1,569	1,538	22	9	98%	1%	1%
	Tialpers Felly Way	Wood Fall Bi	SB	LOS C	1,880	1,857	23	0	99%	1%	0%
	Wood Park Dr	Dunes West Blvd	NB	Pk Hr	1,876	1,844	21	11	98%	1%	1%
	1100011 0111 21	Banes West Bird	SB	LOS C	1,880	1,863	17	0	99%	1%	0%
41	Dunes West Blvd	Joe Rouse Rd	NB	Pk Hr	1,746	1,725	17	3	99%		0%
် လ	Danios Trock Bird	000 110000 110	SB	LOS C	1,880	1,857	21	2	99%		0%
	Clements Ferry Rd Harper Harpers Ferry Way Wood Park Dr Dunes Wood Park Dr Dunes Dunes West Blvd Joe Joe Rouse Rd Win Winnowing Way Gregory Fer Gregory Ferry/SC 41 Access Rd US 17 Study SC 41 Zone Zone 29 (halfway) Clements Ferry Rd North of SC 41 Harpers Ferry Way Dunes West Blvd East of SC 41 Rivertowne Pkwy West of SC 41 Joe Rouse Road Winnowing Way - N of "Sink Zone" (halfway) Porchers Bluff	Winnowing Way	NB	LOS C	1,880	1,859	15	6	99%		0%
		g,	SB	LOS C	1,860	1,817	11	32	98%		2%
		Gregory Ferry/SC 41 Access Rd	NB	LOS C	1,880	1,859	15	6	99%		0%
		g,,	SB	LOS C	1,860	1,817	37	6	98%		0%
		US 17	NB	Pk Hr	2,140	2,078	62	0	97%		0%
	Access Rd		SB	Pk Hr	364	353	9	11			0%
	US 17	Study Limit - South	NB	Pk Hr	148	147	1	0			0%
,		, , , , , , , , , , , , , , , , , , ,	SB	Pk Hr	182	180	2	0			0%
SC41 Acces	SC 41	Zone 29 (halfway)	NB	Pk Hr	78	78	0	0			0%
Ĭ		- (),	SB	LOS C	1,560	1,501	59	0			0%
3	Zone 29 (halfway)	US 17	NB	Pk Hr	241	241	0	0	100%		0%
n	Zone 29 (naitway)	-	SB	LOS C	1,560	1,501	59	0	96%	4%	0%
	Clements Ferry Rd North of SC 41	of SC 41	NB	LOS C	780	746	28	6	96%	4%	1%
	,		SB	LOS C	790	755	28	6			
	Harpers Ferry Way		EB	Pk Hr	273	268	5	0	98%	2%	0%
			WB	Pk Hr	331	325	6	0			
	Dunes West Blvd East of S	SC 41	EB	LOS C	780	760	20	0	98% 2%	0%	
'n			WB	LOS C	790	769	21	0			
Side Streets	Rivertowne Pkwy West of	SC 41	EB	Pk Hr	717	703	13	1	98%	2%	0%
בֿ מ	,		WB	Pk Hr	509	499	9	1		97% 3% 99% 1% 99% 1% 99% 4% 00% 0% 96% 4% *** ** ** ** ** ** ** ** **	
ge	Joe Rouse Road		EB	Pk Hr	611	605	2	4	99%	1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 2% 3% 1% 4% 4% 2% 4%	1%
7			WB	LOS C	790	782	3	5			
	Winnowing Way - N of "Sir	nk Zone" (halfway)	NB	Pk Hr	389	374	14	1	96%	99% 1% 90% 0% 96% 4% 96% 4% 20% 0 3% 0 4% 2 0 4% 0 4% 0 4% 0 10%	0%
			SB	Pk Hr	476	458	17	1			
	Winnowing Way - S of "Sin	ık Zone" (halfway)	NB	Pk Hr	224	221	3	0	99%	1%	0%
			SB	Pk Hr	256	253	3	0	000/	401	001
	Porchers Bluff		NB	Pk Hr	634	627	6	1			0%
		1	SB	Pk Hr	843	834	8	2			0%
	Study Limit - West	Hamlin Rd	EB	Pk Hr	4,155	4,039	71	46			1%
			WB	LOS C	4,650	4,520	79	51			1%
	Hamlin Rd	SC 41 Access Rd	EB	Pk Hr	4,193	4,143	34	17			0%
_			WB	LOS C	4,650	4,520	79	51	97%		1%
71 20	SC 41 Access Rd	SC 41	EB	Pk Hr	4,193	4,143	34	17	99%		0%
)			WB	LOS C	2,790	2,692	56	42	97%		2%
	SC 41	Porchers Bluff	EB	Pk Hr	2,407	2,270	91	46	94%		2%
			WB	LOSC	2,790	2,692	56	42	97%		2%
	Porchers Bluff	Study Limit - East	EB	LOS C	2,730	2,585	101	44	95%		2%
		•	WB	LOS C	2,790	2,695	47	47	97%	2%	2%

		<u>Links</u>				<u>2045 Bu</u>	ild Alt 7A				
Seg.	From	То	Dir.	PHV Source:	Min. PHV (vph)	Auto (vph)	MT (vph)	HT (vph)	%Auto	%МТ	%HT
	Study Limit - North	Clements Ferry Rd	NB	Pk Hr	713	694	14	5	97%	2%	1%
	Otday Ellille 140141	Glomento i en y rea	SB	Pk Hr	447	435	8		97%	2%	1%
	Clements Ferry Rd	Harpers Ferry Way	NB SB	Pk Hr Pk Hr	1,069 1,864	1,043 1,845	17 19	-			1% 0%
			NB	Pk Hr	1,131	1,108	16				1%
	Harpers Ferry Way	Wood Park Dr	SB	Pk Hr	1,855	1,833	22	(vph) %Auto 97%	1%	0%	
	Wood Park Dr	SC 41 Bypass	NB	Pk Hr	1,386	1,362	15	8	97% 97% 98% 99% 98% 99% 99% 99% 99% 99% 99% 99	1%	1%
	WOOD FAIR DI	ос 41 Буразз	SB	LOS C	1,880	1,863	17			1%	0%
	SC 41 Bypass	Joe Rouse	NB SB	LOS C	790 500	781 504	8				0%
SC 41			SB NB	Pk Hr Pk Hr	598 631	591 623	7 6				0% 0%
(O)	Joe Rouse	SC 41 Bypass	SB	LOS C	790	781	9			1%	0%
	SC 41 Bypass	Winnowing Way	NB	LOS C	1,880	1,859	15	6	99%	1%	0%
	оо чт Буразз	vviiiiowiiig vvay	SB	LOS C	1,860	1,817	11			1%	2%
	Winnowing Way	Gregory Ferry/SC 41 Access Rd	NB	Pk Hr	1,747	1,728	14				0%
	Gregory Ferry/SC 41		SB NB	LOS C Pk Hr	1,860 1,701	1,817 1,652	37 49				0% 0%
	Access Rd	US 17	SB	Pk Hr	410	398	11				0%
		0, 11, 7, 0, 4	NB	Pk Hr	144	143	1			1%	0%
	US 17	Study Limit - South	SB	Pk Hr	184	182	2	0	99%	1%	0%
900	SC 41	Zone 29 (halfway)	NB	Pk Hr	42	42	0			0%	0%
1 A		- (3/	SB	LOS C	1,860	1,789	71				0%
SC41 Acce	Zone 29 (halfway)	US 17	NB SB	Pk Hr LOS C	137 1,860	137 1,789	0 71				0% 0%
0,			OD.	L03 C	1,000	1,709	- / 1	U	90 /0	4 /0	0 70
	Olamanta Farmi Del Mantha el	F CC 44	NB	LOS C	910	870	33	7	000/	40/	40/
	Clements Ferry Rd North of	150 41	SB	LOS C	940	899	34		96%	4%	1%
	Harpers Ferry Way		EB	Pk Hr	258	253	5		98%	2%	0%
w	. , ,		WB EB	Pk Hr Pk Hr	332 485	326 482	<u>6</u> 3				
Streets	Rivertowne Pkwy West of S	SC 41	WB	Pk Hr	141	140	3 1		99%	1%	0%
e St		. =	NB	Pk Hr	409	393	14		000/	40/	00/
Side	Winnowing Way - N of "Sin	k Zone" (halfway)	SB	Pk Hr	356	342	12	1	96%	4%	0%
	Winnowing Way - S of "Sinl	k Zone" (halfway)	NB	Pk Hr	252	249	3		99%	2% 2% 2% 1% 1% 1% 1% 1% 1% 1% 1% 1% 0 2% 4 4 4 4 4 4 4 4 4 4 4 4 4	0%
	Triming tray	(namay)	SB	Pk Hr	311	307	4				
	Porchers Bluff		NB SB	Pk Hr Pk Hr	660 758	653 750	6 7				0% 0%
			NB	Pk Hr	1,766	1,755	11				0%
	SC41	Wando Plantation	SB	Pk Hr	1,522	1,507	9				0%
Bypass	Wando Plantation	Park West	NB	Pk Hr	1,774	1,763	11	0	99%	1%	0%
Вур	Walloo Flantation	Faik West	SB	LOS C	1,880	1,861	11				0%
SC41 I	Park West	Dumont Dr	NB	Pk Hr	1,273	1,265	8				0%
S			SB NB	Pk Hr Pk Hr	1,758 1,590	1,740 1,580	11 10				0% 0%
	Dumont Dr	SC 41	SB	LOS C	1,880	1,861	11				0%
	0, 11: 1, 14: 1		EB	Pk Hr	4,121	4,006	70				1%
	Study Limit - West	Hamlin Rd	WB	LOS C	4,650	4,520	79	51	97%	2%	1%
	Hamlin Rd	SC 41 Access Rd	EB	Pk Hr	4,031	3,983	32		97% 98% 99% 99% 99% 99% 99% 99% 99% 99% 99		0%
_	T I I I I I I I I I I I I I I I I I I I	20 117100000 114	WB	LOS C	4,650	4,520	79				1%
US 17	SC 41 Access Rd	SC 41	EB WB	Pk Hr LOS C	4,031 2,790	3,983 2,692	32 56				0% 2%
			EB	Pk Hr	2,790	2,418	97				2%
	SC 41	Porchers Bluff	WB	LOS C	2,790	2,692	56				2%
	Porchers Bluff	Study Limit - East	EB	LOSC	2,730	2,585	101	44			2%
	i oronora Diuri	Olddy Lillin - Last	WB	LOS C	2,790	2,695	47	47	97%	2%	2%



28	Reflectance Rd Clements Ferry Rd	(224) 93 J ← 1 F ← (192) 101 ← 28 % % (23) 28 J	2045 BUILD ALTERNATIVE 7 PEAK HOUR TRAFFIC VOLUMES LEGEND 000 - AM PEAK TRAFFIC VOLUMES (000) - PM PEAK TRAFFIC VOLUMES
(302) 288 1 (426) 215 1 (1,755) 766 → (1,520) 650 →	(1,500) (1,500) (1,500) (2,500) (2,500) (3,500) (4,500) (5,500) (5,500) (6,500) (7,500	(32) (653) (65)	
	1 L (329)	41	
	(62) (62) (62) (62) (62) (62) (62) (62)		
	1 1 180 (118)	Marpers Ferry Way	
Planters Point Blvd	(621) (621)	Wood Park Dr	
	(27) 53 J		SC of Dippers
Rivertowne Pkwy	(6) (7) (1410) 8 (7) (264) 1 1 1 (264)	SC 41 Bypass	(82)
AUSTROMO PONY	(105) 155 J	ov et cypess	1 (60) 1 14 (60)
	(60) L 10 (7) 200 D 7 (10) T 7 (10)		(a) (a) (b) (c) (a) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
Pankers Island Rd	(19) 27 J	Canyon Ln	Palmetto Hall Blvd (57) 47 1 (0) 0 → (49) 138 1 (49) 88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	(%) L 11 (0) L 14 (0) L 14 (0)		(98) \$27 0 0 (262)
Sunchaser Ln	(16) 25 J 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Bennet Charles Rd	Ellington Woods Bird Wando Plantation Way (45) 43 1
	(† 25) 1		(323)
	1 (300) 469 t (5) 14 1 1	Joe Rouse Rd	(27) (68) (27) (89) (27) (89) (27) (89) (27) (10) (27) (27) (10) (27)
	(770) (86) Oui SC 41		(36) 17 J
	1 149 (237) ↓ ↓ ↓ ↓ ↓ ↓ (237) ↓ ↓ ↓ ↓ ↓ (1,701)	SC 41 Bypass	
	(13) (2,389) (1,974)		(1.5) SC-41 Epperes
Tradewind Dr	(5) 5 1 4 1		98 77 1
	t 4 (6) 69 (98) 6 9 € 7 (2428) 1.138 (1386 (227) 1.138 t		(12) 10 J • 1 (17) 41 J • 1 (19) (19) (19) (19) (19) (19)
Colondale Dr	(6) 2 1 97 1 197 (6) (6) (7) (6) (6) (7) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7		SC-cf Dynas
	(10) (20) (20) (20) (30) (40)		
SC 41 Access Rd Available to the control of the co	(35) 6 f 7	Gregory Ferry Rd PB JPB Response Response JO JO JO JO JO JO JO JO JO J	Der Wess Bird
© (2) (117)	1 389 (503) 1 389 (503) 1 389 (503) 1 389 (503) 1 4 4 (53)	\$\\ \begin{array}{cccccccccccccccccccccccccccccccccccc	1
US 17 (167) 59 1	(2,479) 1,002 J	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(1223) 632 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1





Vehicle Percentages Per Approach - AM

	Eastbound			Westbound			Northbound			Southbound		
Intersection	Heavy	Lights	Medium	Heavy	Lights	Medium	Heavy	Lights	Medium	Heavy	Lights	Medium
HAMLIN ROAD & US 17 AM	2.0%	94.2%	3.8%	1.1%	97.2%	1.7%	0.6%	94.3%	5.1%	0.0%	98.9%	1.1%
SC 41 Access Rd & US 17 AM	3.7%	95.4%	0.9%	1.1%	96.8%	2.1%	-	-	-	0.6%	97.5%	1.9%
SC 41 & US 17 AM	1.9%	94.3%	3.8%	1.5%	96.5%	2.0%	0.0%	98.4%	1.6%	0.4%	97.0%	2.6%
PORCHERS BLUFF ROAD & US 17 AM	1.8%	94.1%	4.1%	1.7%	96.6%	1.7%	0.3%	96.2%	3.5%	0.0%	98.8%	1.2%
OAKLAND MARKET DRIVE & US 17 AM	1.6%	94.7%	3.7%	1.5%	96.5%	2.0%	0.0%	99.7%	0.3%	0.0%	98.2%	1.8%
PARK WEST BLVD & US 17 AM	1.6%	94.7%	3.7%	1.9%	95.6%	2.5%	0.8%	97.7%	1.5%	0.0%	99.0%	1.0%
SC 41 & HWY 41 Access Road AM	0.0%	95.8%	4.2%	0.0%	100.0%	0.0%	0.9%	95.0%	4.1%	0.3%	97.7%	2.0%
SC 41 & Westbound St. AM	3.2%	96.8%	0.0%	-	-	-	1.3%	95.3%	3.4%	1.7%	97.7%	0.6%
SC 41 & BESSEMER ROAD AM	-	-	-	0.4%	99.0%	0.6%	0.9%	95.9%	3.2%	0.3%	96.8%	2.9%
SC 41 & BENNETT CHARLES ROAD AM	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	1.2%	95.0%	3.8%	0.4%	96.9%	2.7%
SC 41 & CANYON LANE AM	0.0%	87.5%	12.5%	0.0%	100.0%	0.0%	1.2%	94.5%	4.3%	0.5%	97.3%	2.2%
SC 41 & DUNES WEST BLVD AM	0.2%	98.0%	1.8%	0.0%	97.4%	2.6%	0.9%	96.3%	2.8%	0.4%	95.2%	4.4%
SC 41 & WOOD PARK DRIVE AM	0.0%	96.4%	3.6%	0.0%	95.0%	5.0%	0.2%	97.6%	2.2%	0.0%	94.4%	5.6%
SC 41 & HARPERS FERRY WAY AM	-	-	-	0.5%	93.3%	6.2%	0.4%	97.6%	2.0%	0.3%	90.2%	9.5%
SC 41 & CLEMENTS FERRY ROAD AM	0.8%	95.6%	3.6%	-	-	-	0.2%	95.2%	4.6%	2.4%	82.3%	15.3%
SC 41 & REFLECTANCE ROAD AM	18.4%	77.7%	3.9%	5.1%	88.1%	6.8%	0.9%	81.6%	17.5%	7.6%	77.2%	15.2%
Northbound St. & CLEMENTS FERRY ROAD AM	4.9%	90.2%	4.9%	0.2%	99.6%	0.2%	-	-	-	11.5%	76.0%	12.5%
Northbound St. & CLEMENTS FERRY ROAD AM	6.7%	89.4%	3.9%	3.6%	92.4%	4.0%	-	-	-	8.8%	86.0%	5.6%
SC 41 & Westbound St. AM	0.0%	97.4%	2.6%	-	-	-	1.0%	95.2%	3.8%	0.3%	97.8%	1.9%

Vehicle Percentages Per Approach - PM

		Eastbound			Westbound			Northbound			Southbound		
Intersection	Heavy	Lights	Medium	Heavy	Lights	Medium	Heavy	Lights	Medium	Heavy	Lights	Medium	
HAMLIN ROAD & US 17 PM	0.8%	97.6%	1.6%	0.8%	95.5%	3.7%	0.0%	98.7%	1.3%	0.4%	97.3%	2.3%	
SC 41 Access Rd & US 17 PM	0.6%	98.1%	1.3%	0.5%	97.7%	1.8%	-	-	-	0.0%	96.2%	3.8%	
SC 41 & US 17 PM	0.4%	98.8%	0.8%	1.0%	97.7%	1.3%	0.0%	97.1%	2.9%	0.0%	99.0%	1.0%	
PORCHERS BLUFF ROAD & US 17 PM	0.5%	98.7%	0.8%	0.7%	98.0%	1.3%	0.2%	98.9%	0.9%	0.0%	100.0%	0.0%	
OAKLAND MARKET DRIVE & US 17 PM	0.5%	98.8%	0.7%	0.7%	97.8%	1.5%	0.0%	99.5%	0.5%	0.0%	100.0%	0.0%	
PARK WEST BLVD & US 17 PM	0.4%	98.6%	1.0%	0.9%	97.7%	1.4%	0.0%	99.7%	0.3%	0.0%	99.6%	0.4%	
SC 41 & HWY 41 Access Road PM	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.3%	98.9%	0.8%	0.2%	98.4%	1.4%	
SC 41 & Westbound St. PM	0.0%	100.0%	0.0%	-	-	-	0.2%	99.1%	0.7%	1.2%	98.5%	0.3%	
SC 41 & BESSEMER ROAD PM	-	-	-	0.0%	98.0%	2.0%	0.3%	98.9%	0.8%	0.1%	98.8%	1.1%	
SC 41 & BENNETT CHARLES ROAD PM	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.2%	99.2%	0.6%	0.1%	98.8%	1.1%	
SC 41 & CANYON LANE PM	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.2%	98.8%	1.0%	0.0%	98.9%	1.1%	
SC 41 & DUNES WEST BLVD PM	0.0%	99.4%	0.6%	0.2%	99.4%	0.4%	0.2%	98.8%	1.0%	0.0%	99.1%	0.9%	
SC 41 & WOOD PARK DRIVE PM	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.6%	98.3%	1.1%	0.0%	98.8%	1.2%	
SC 41 & HARPERS FERRY WAY PM	-	-	-	0.0%	98.1%	1.9%	0.6%	98.0%	1.4%	0.0%	99.0%	1.0%	
SC 41 & CLEMENTS FERRY ROAD PM	0.2%	99.1%	7%	-	-	-	0.8%	97.6%	1.6%	0.7%	97.4%	1.9%	
SC 41 & REFLECTANCE ROAD PM	11.8%	86.2%	2.0%	1.8%	89.1%	9.1%	1.1%	96.7%	2.2%	9.3%	89.3%	1.4%	
Northbound St. & CLEMENTS FERRY ROAD PM	2.8%	96.0%	1.2%	0.5%	95.9%	3.6%	-	-	-	17.5%	76.2%	6.3%	
Northbound St. & CLEMENTS FERRY ROAD PM	3.9%	94.5%	1.6%	3.7%	92.6%	3.7%	-	-	-	9.2%	88.9%	1.9%	
SC 41 & Westbound St. PM	0.0%	100.0%	0.0%	-	-	-	0.1%	99.2%	0.7%	0.2%	98.7%	1.1%	

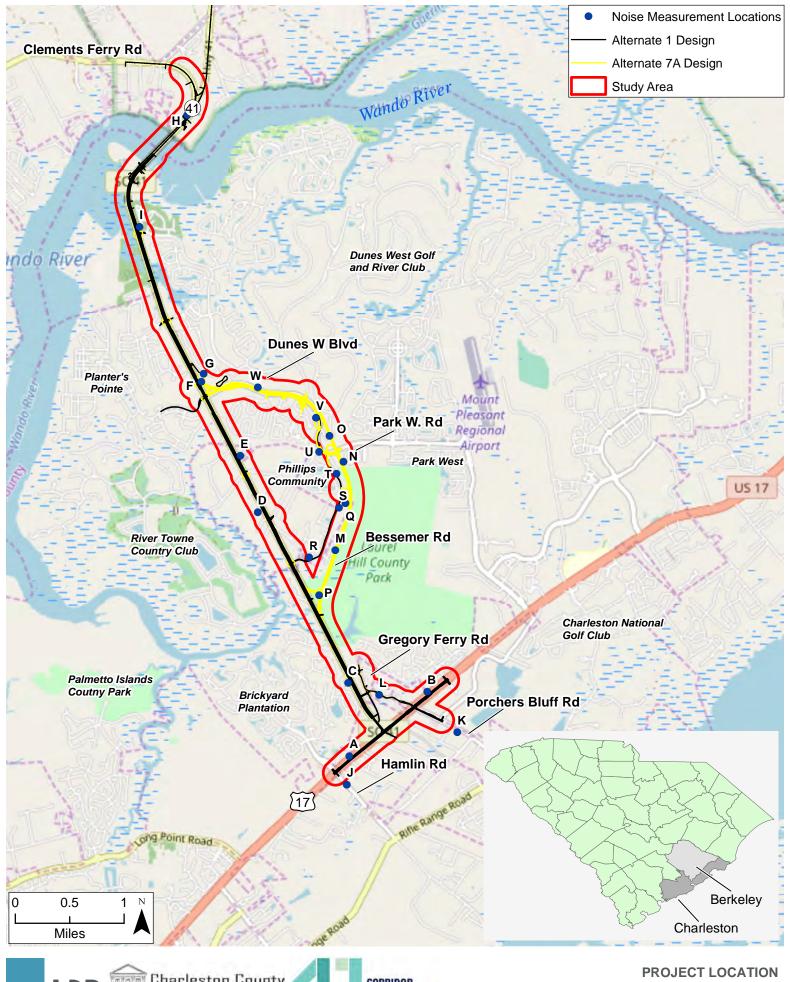


Appendix B - Receptor Maps



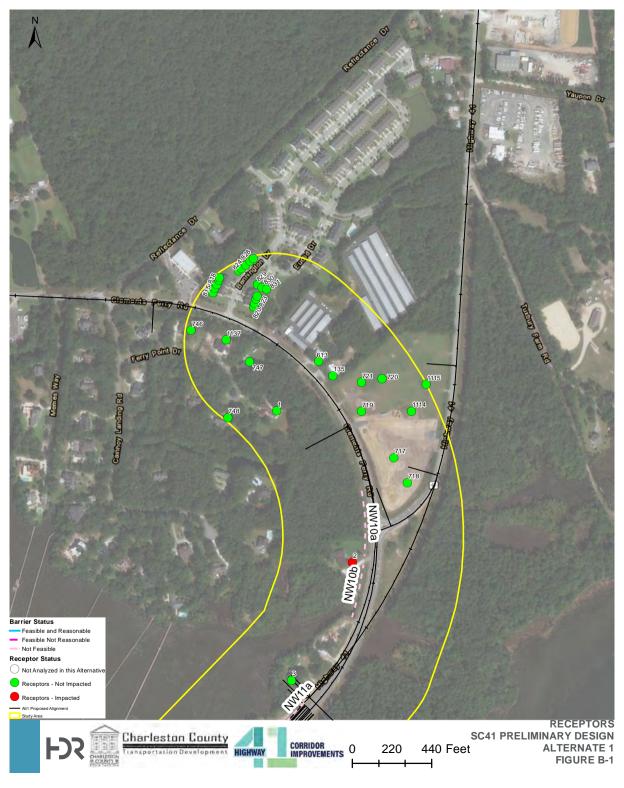
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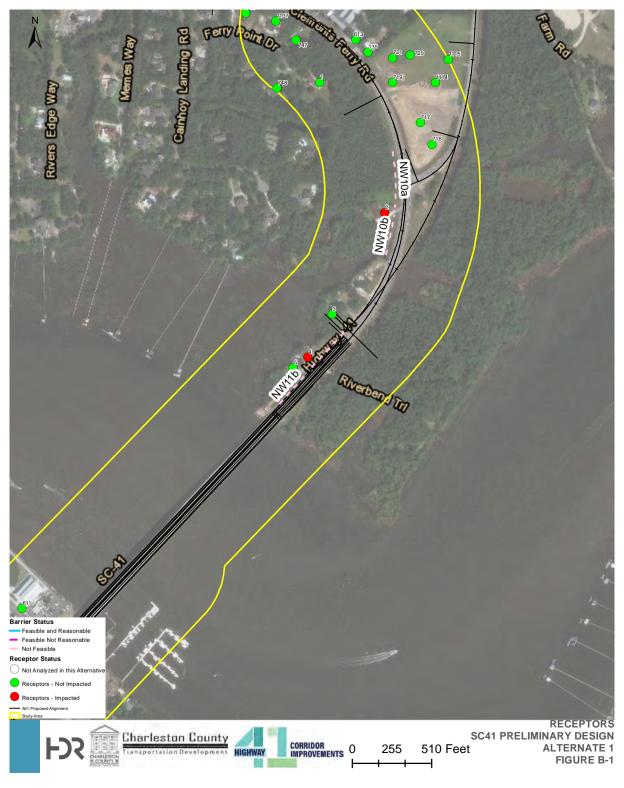




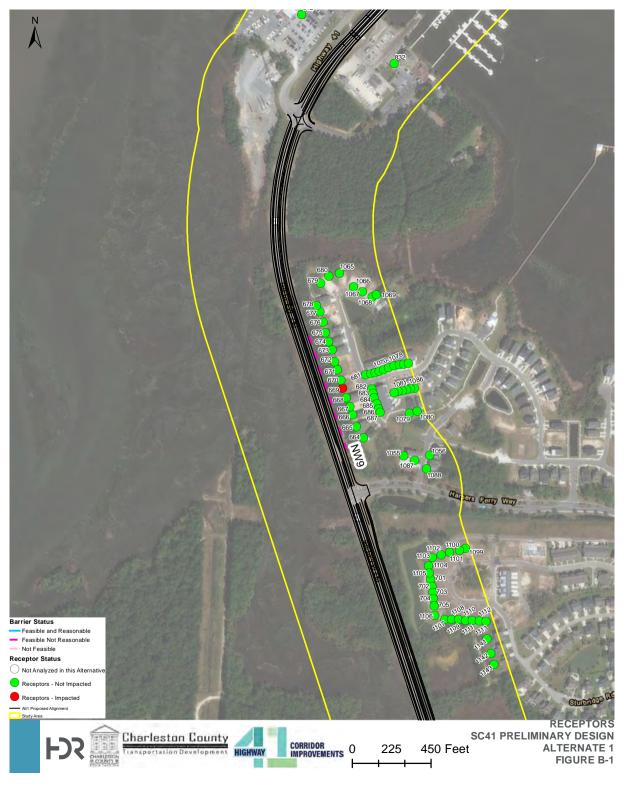


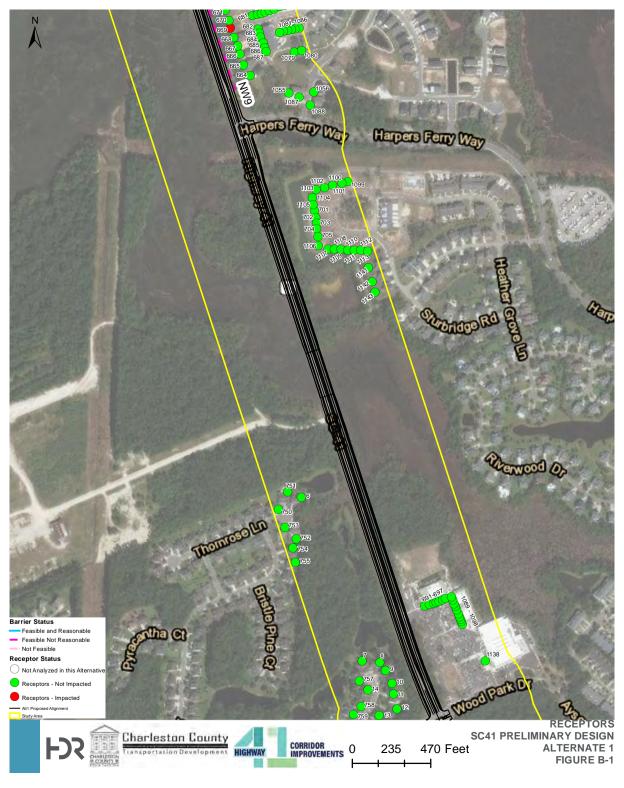
PROJECT LOCATION SC41 PRELIMINARY DESIGN FIGURE 4. NOISE MEASUREMENT LOCATIONS

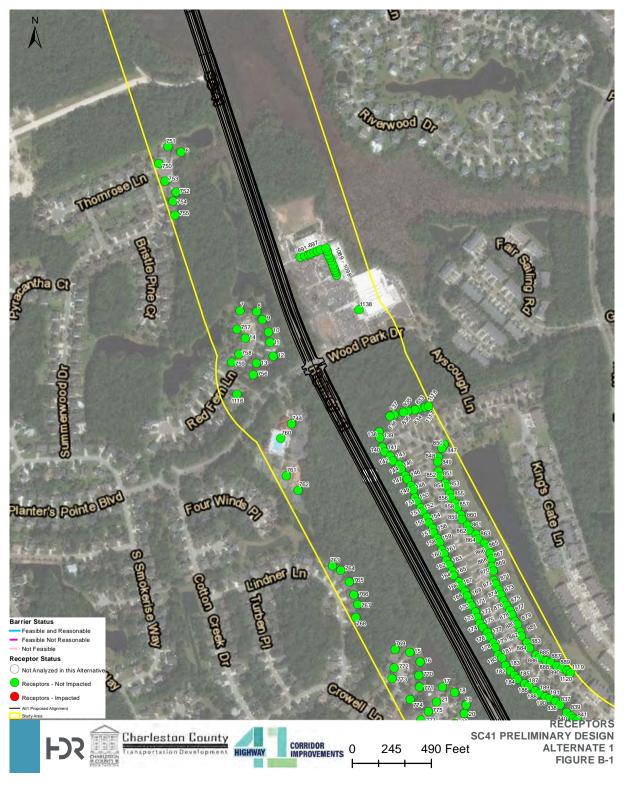


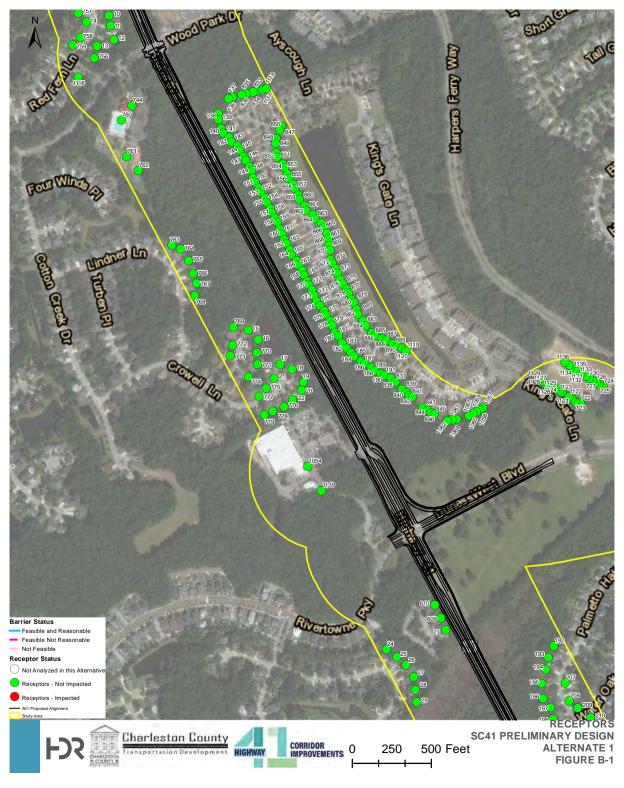


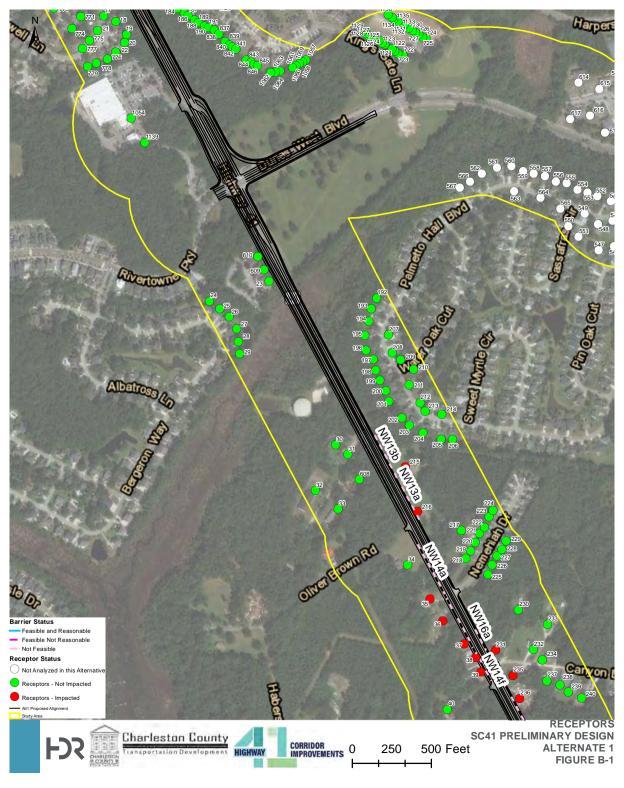


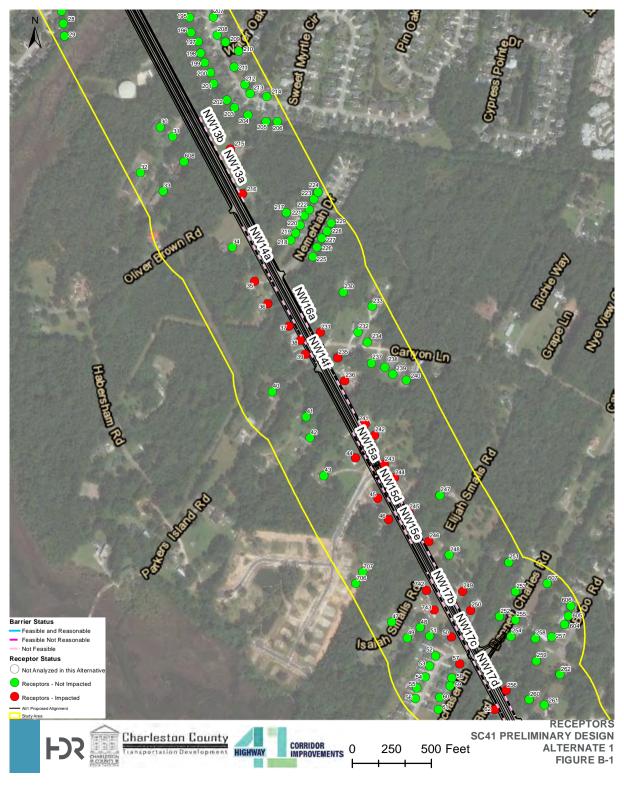


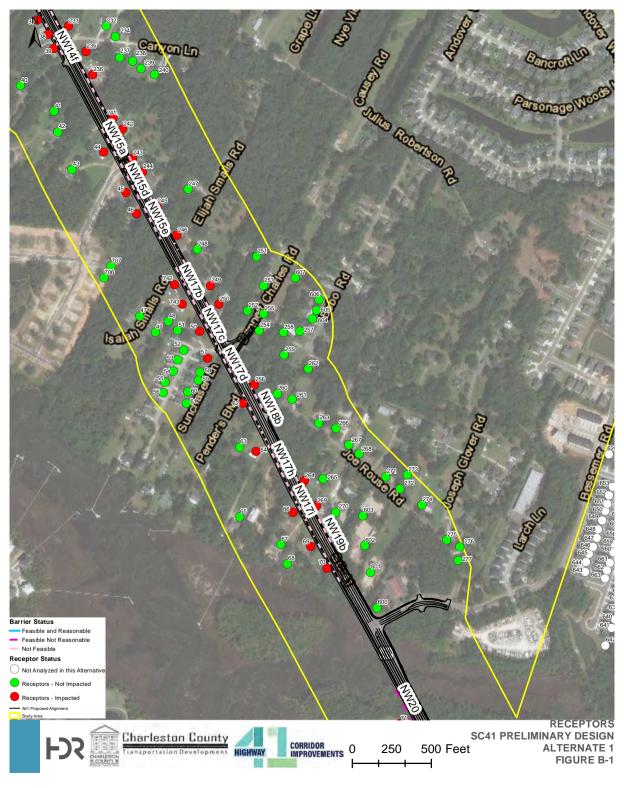


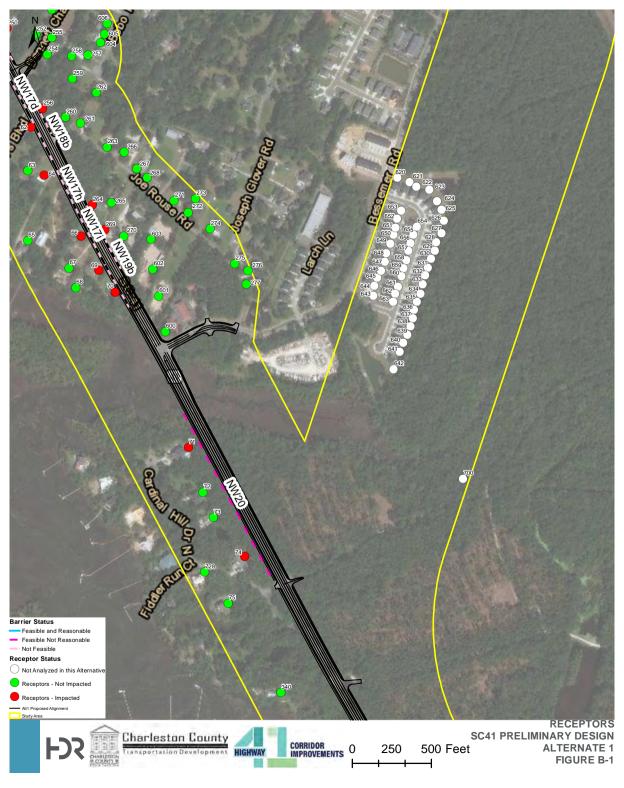


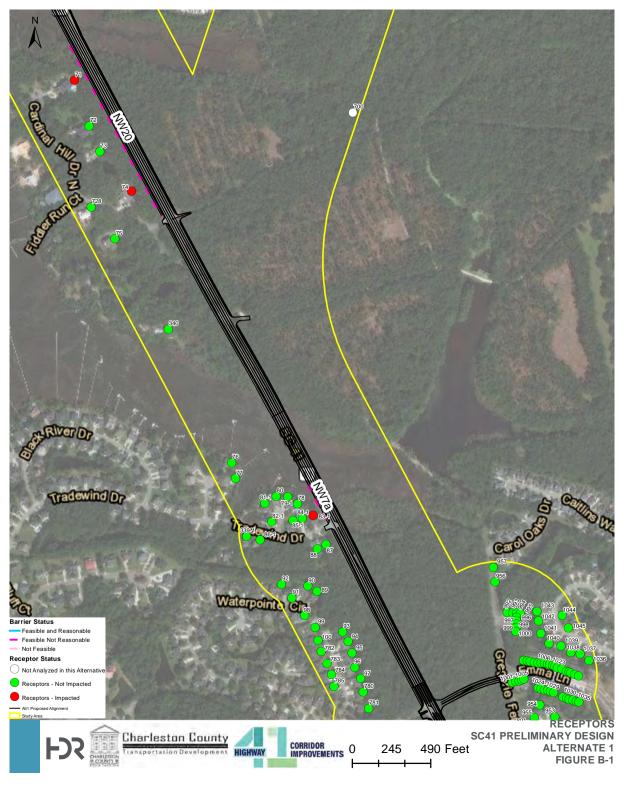


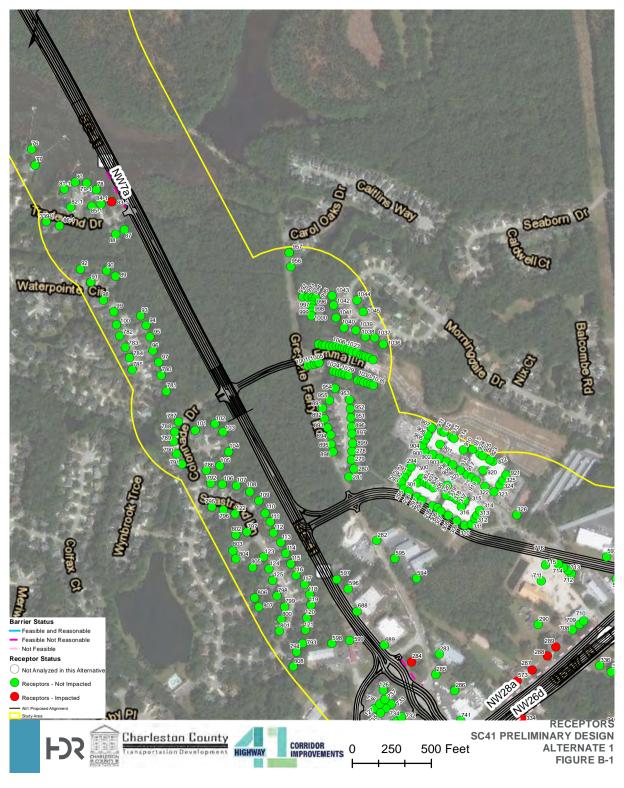


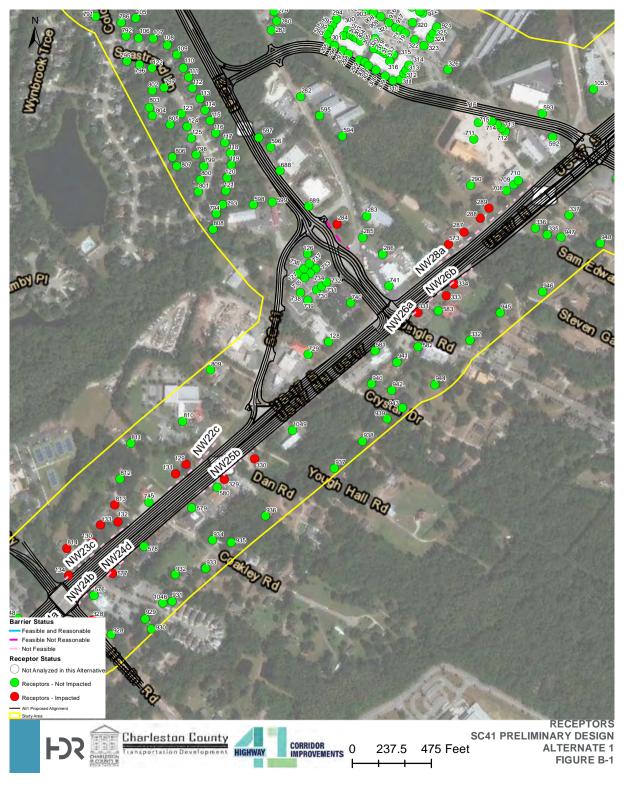


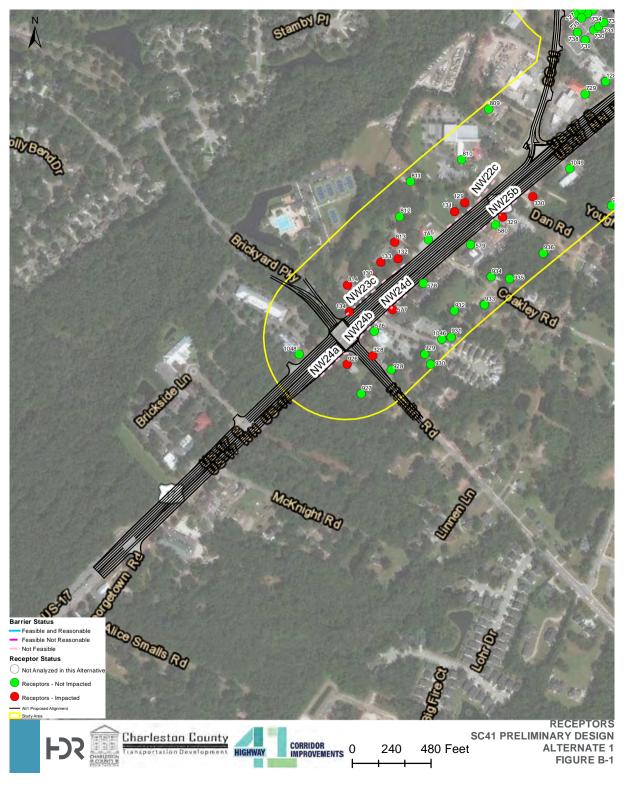


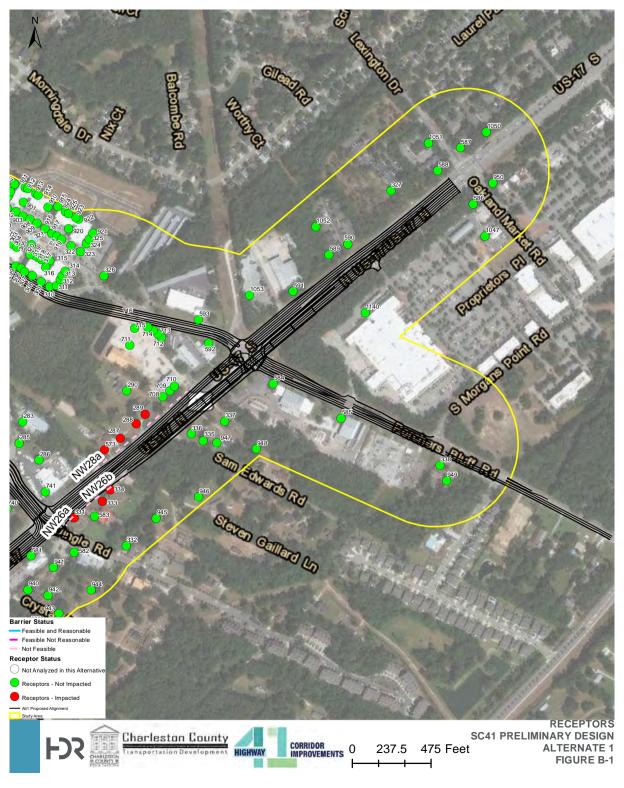


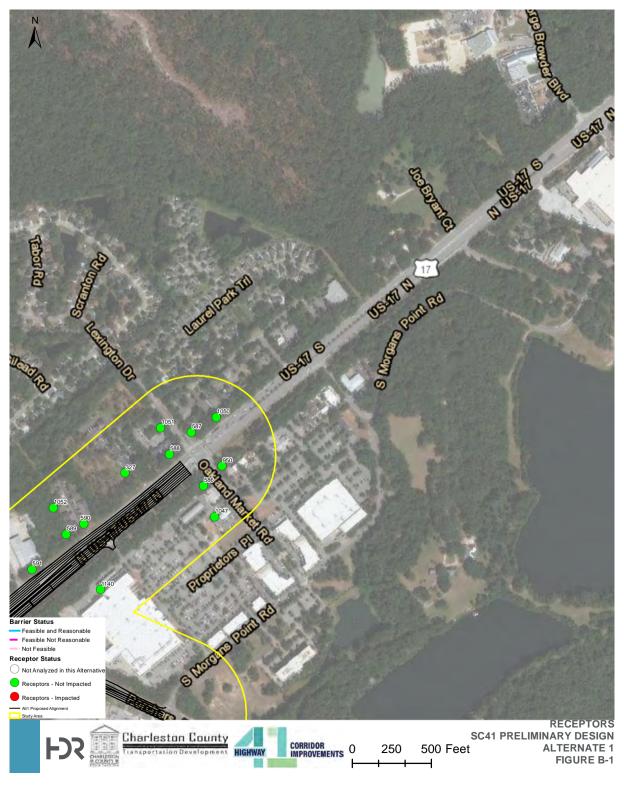


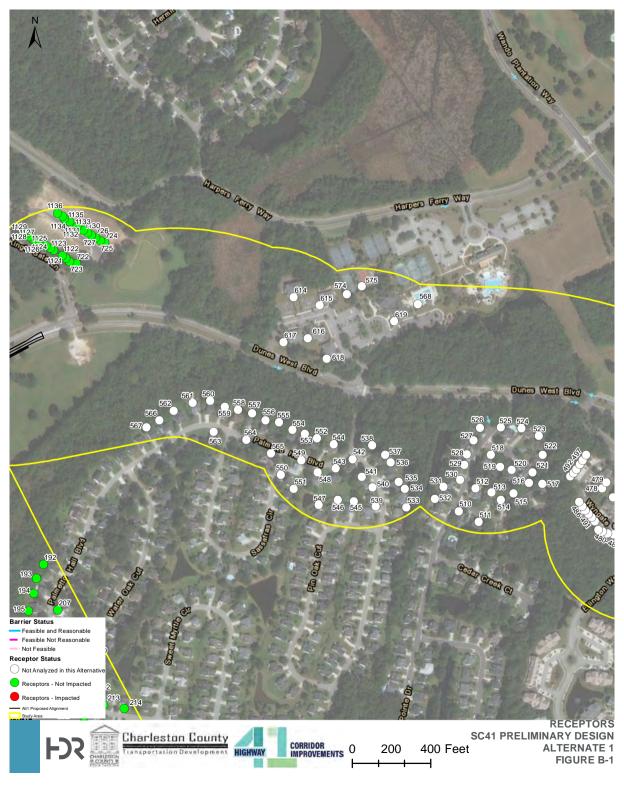


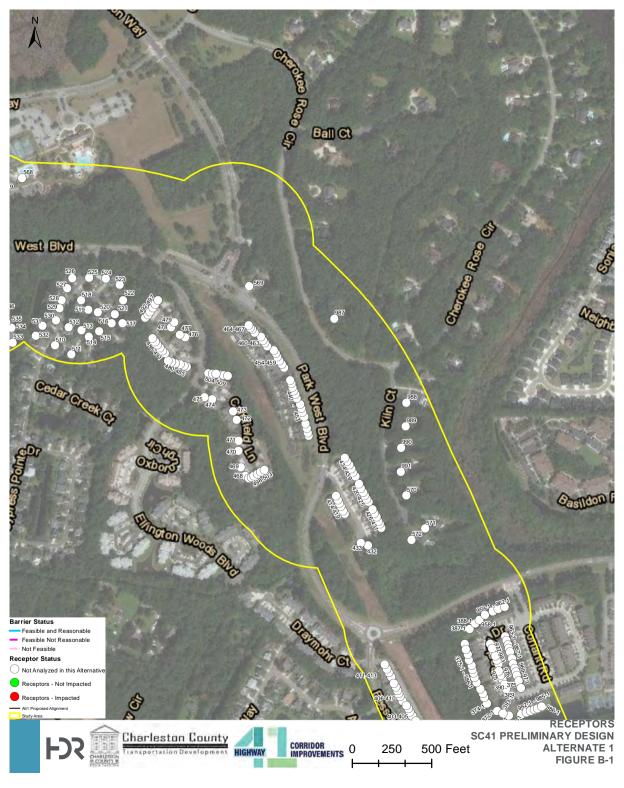


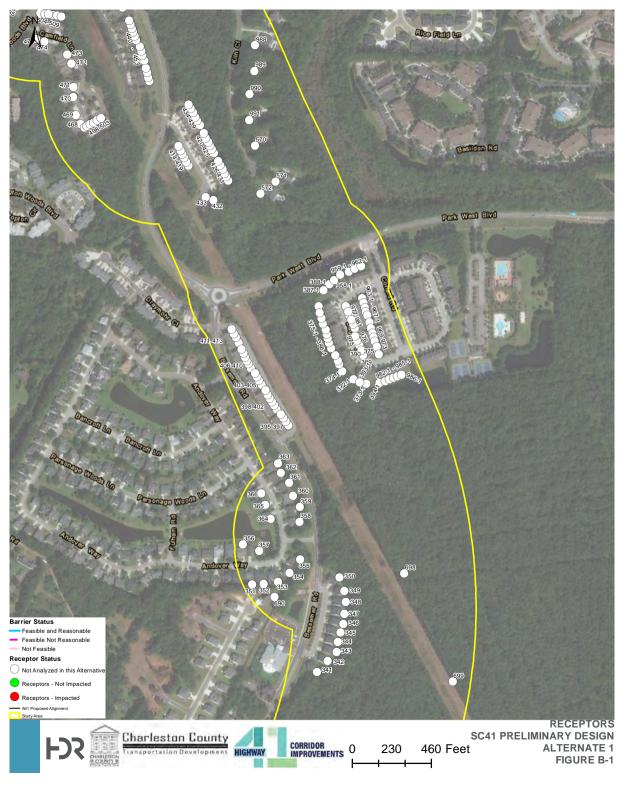




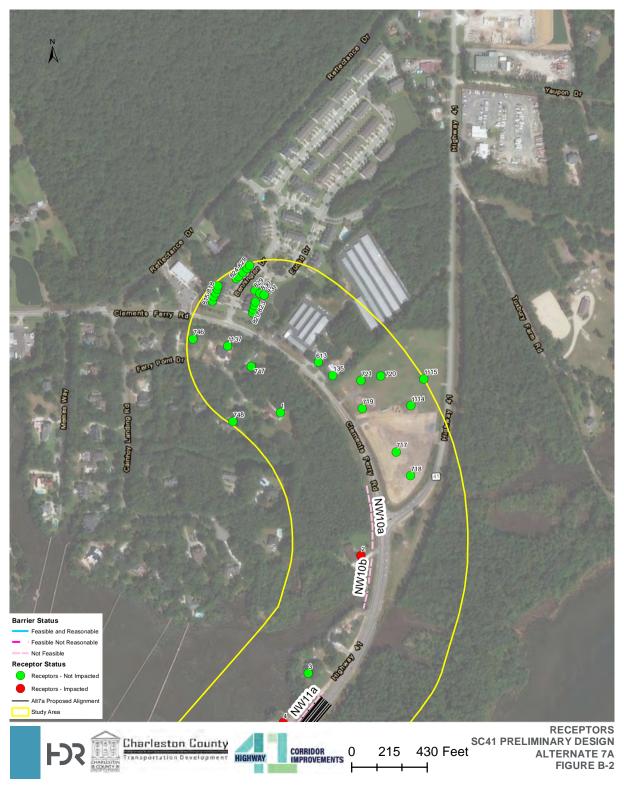


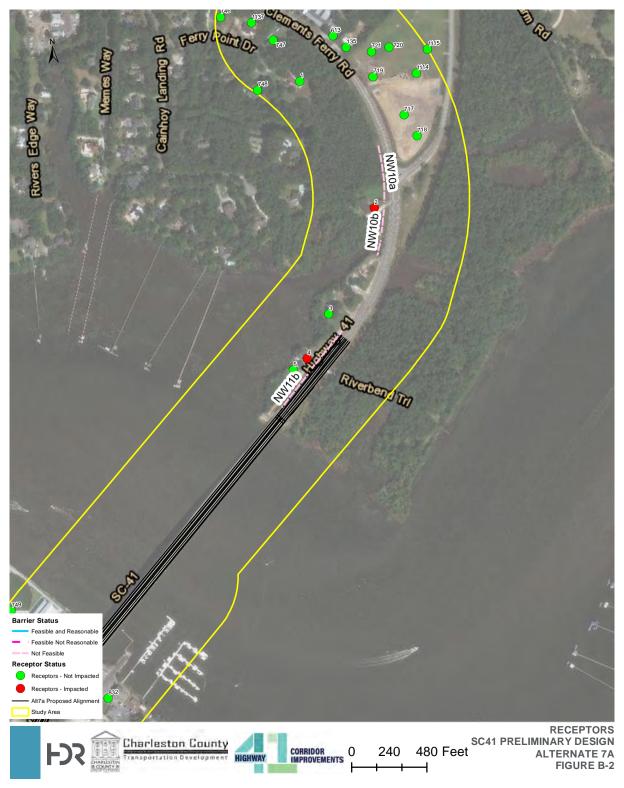




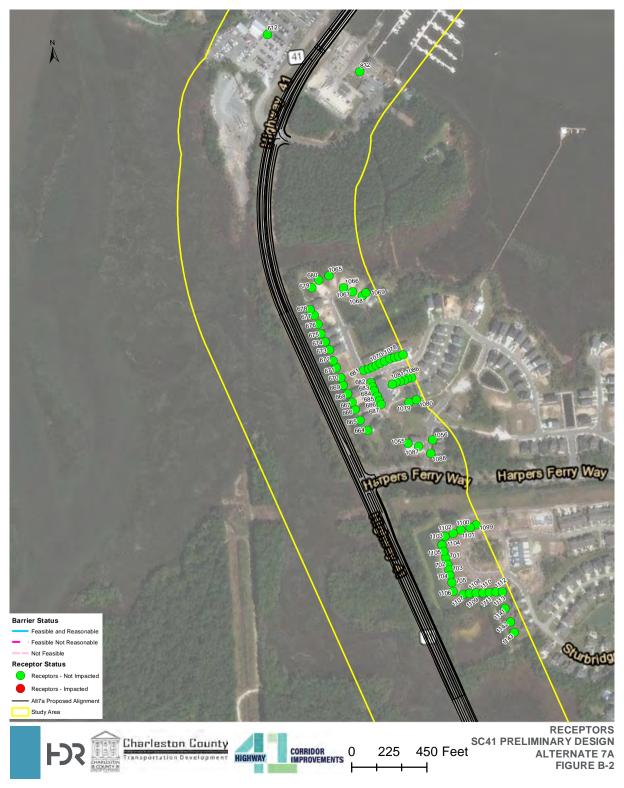


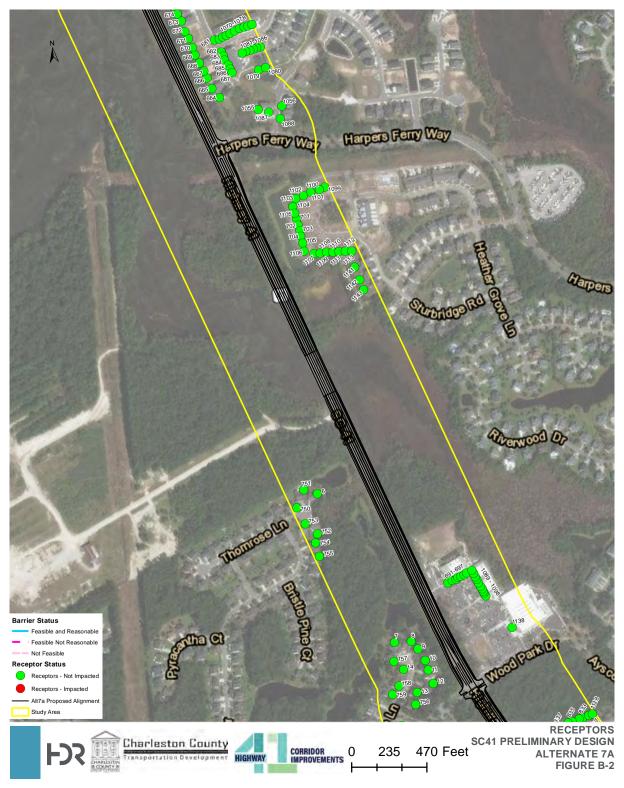


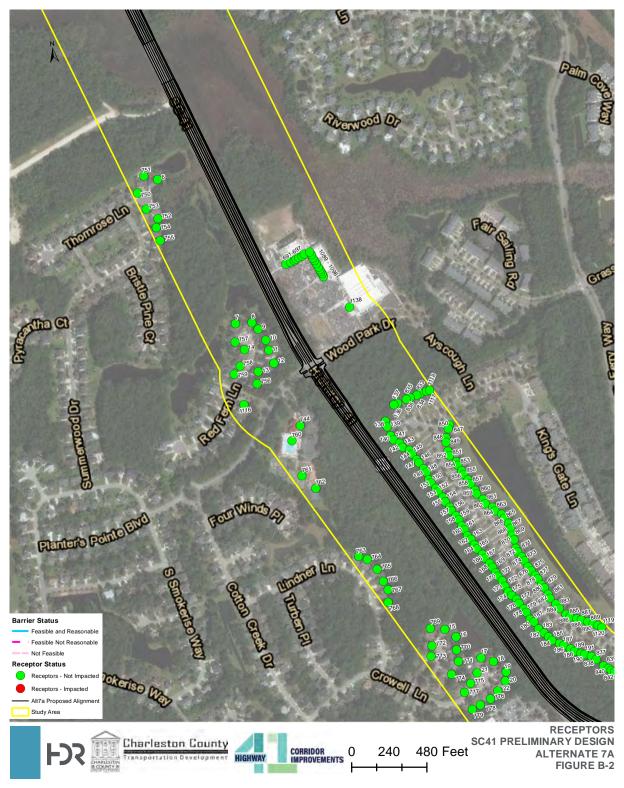


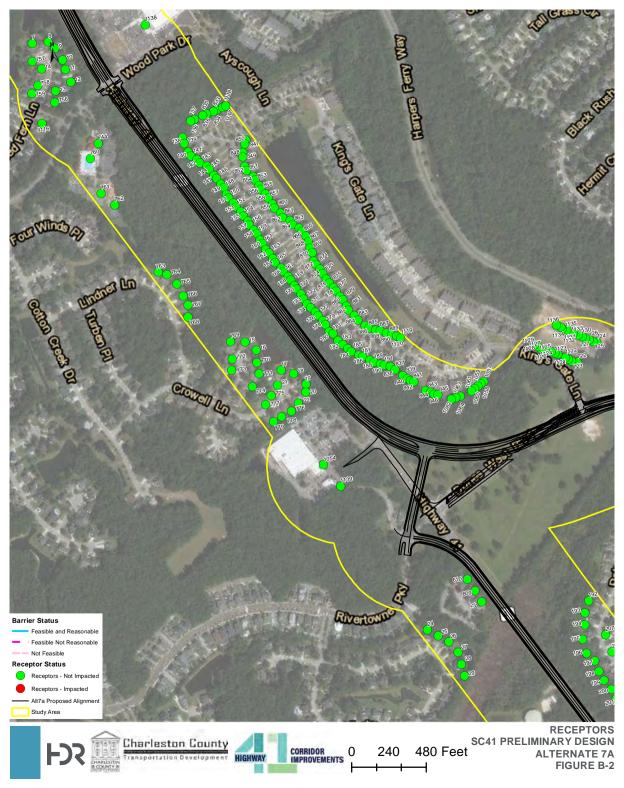


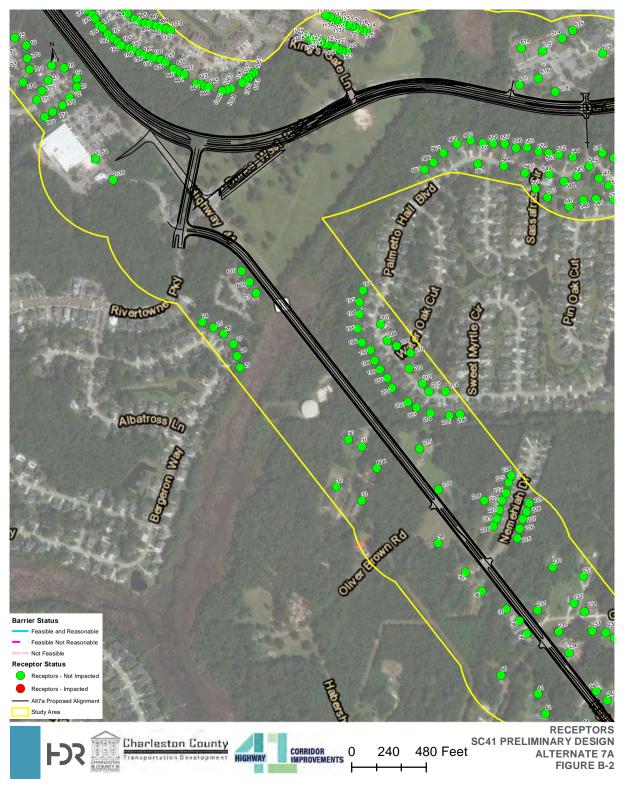


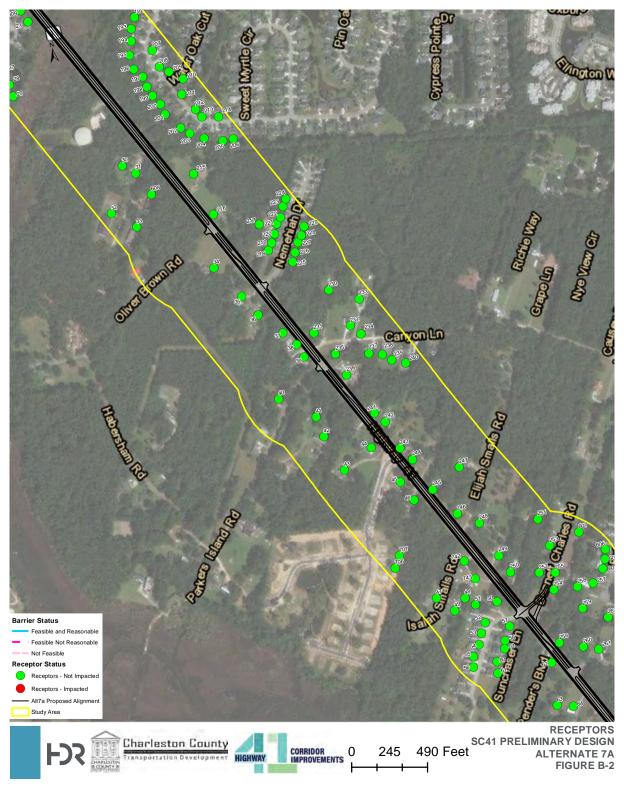


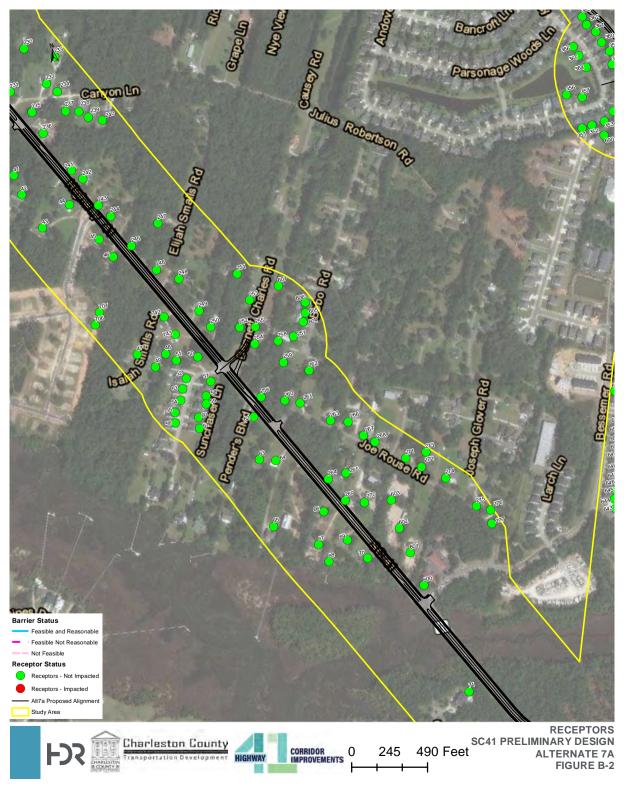


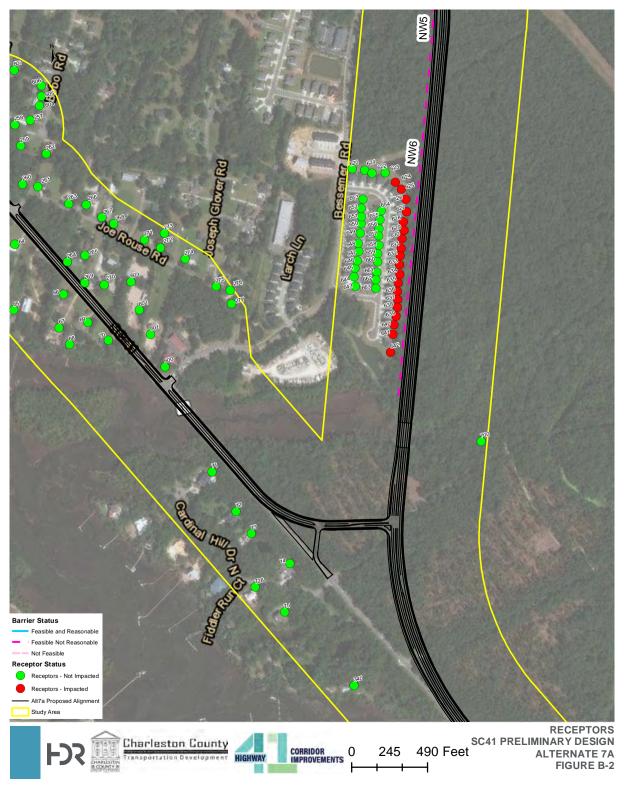


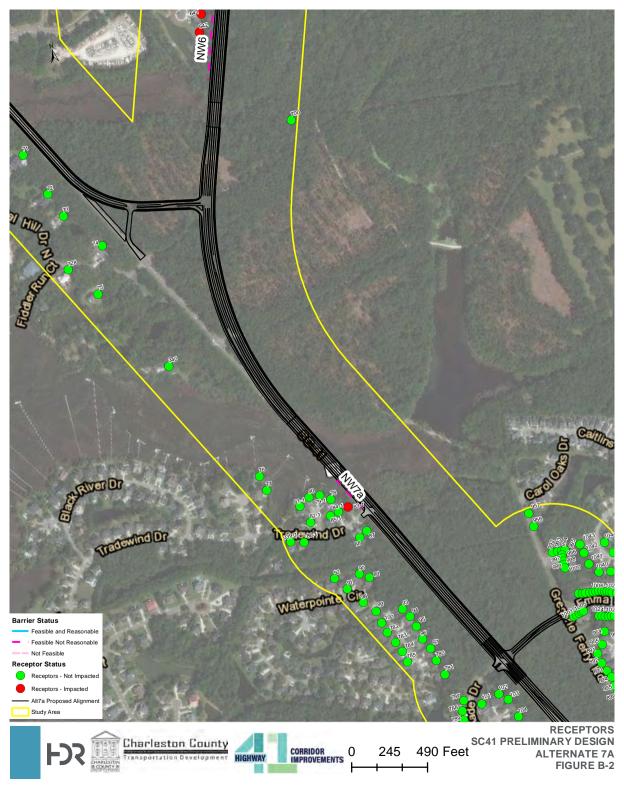


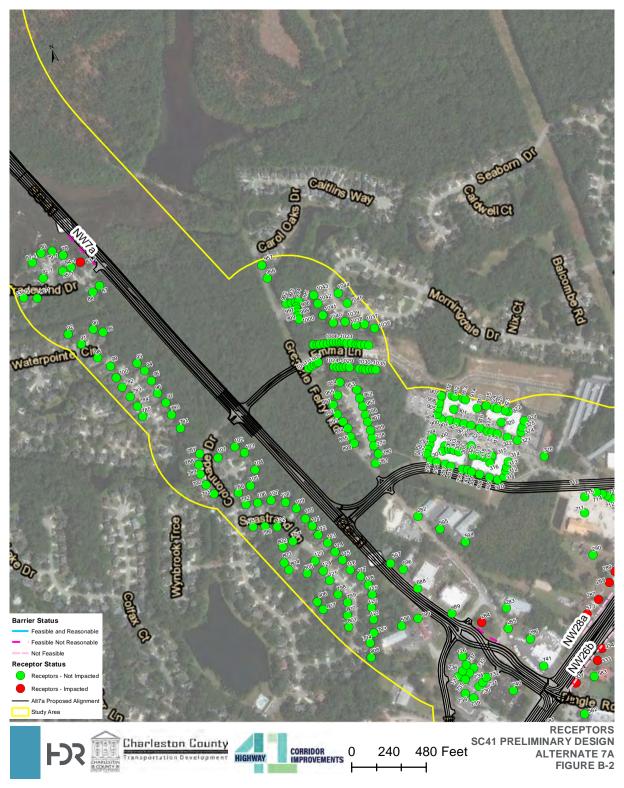


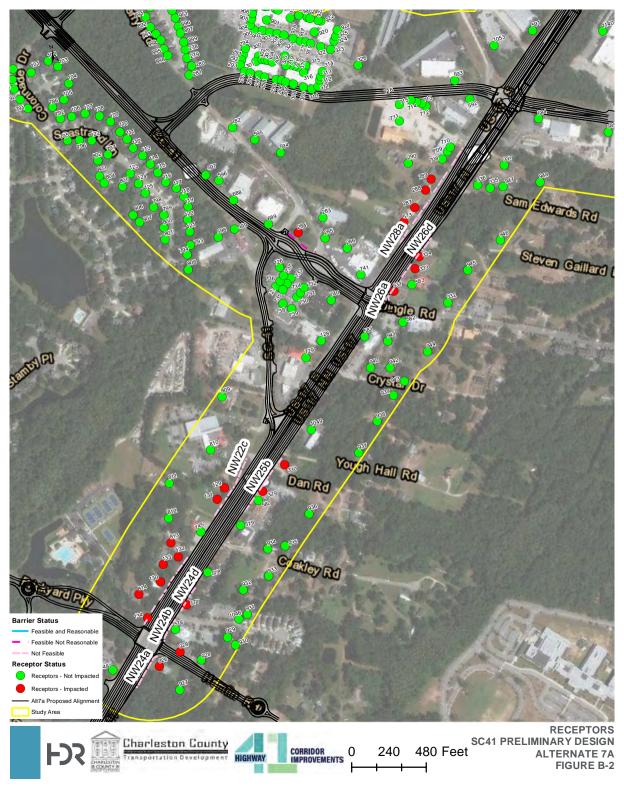


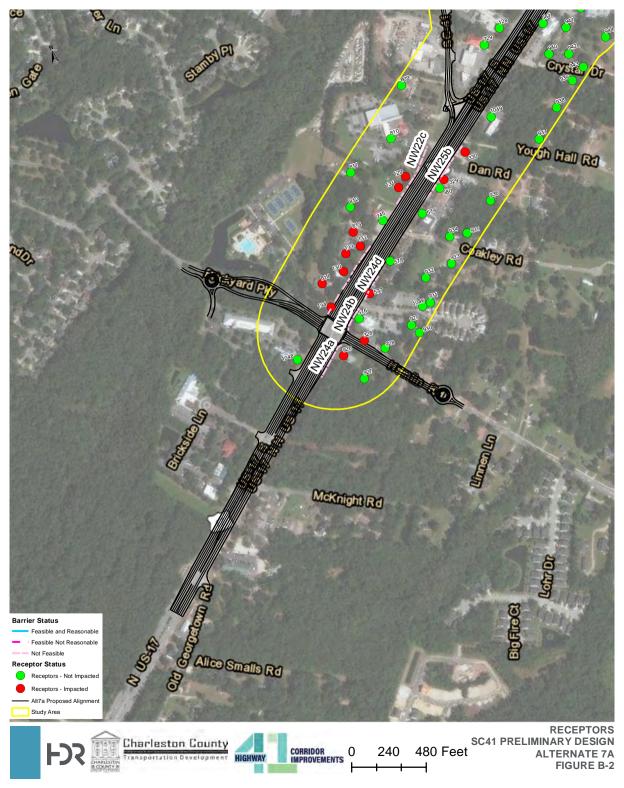


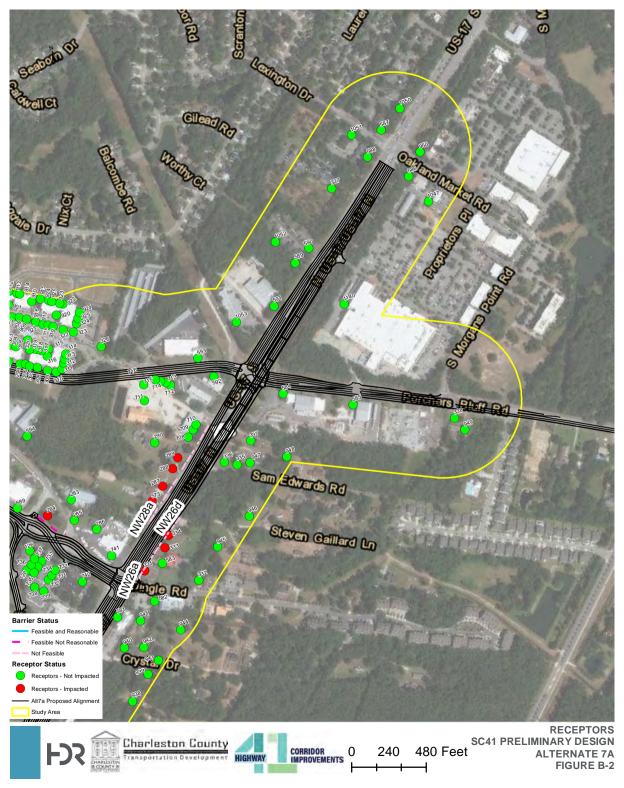


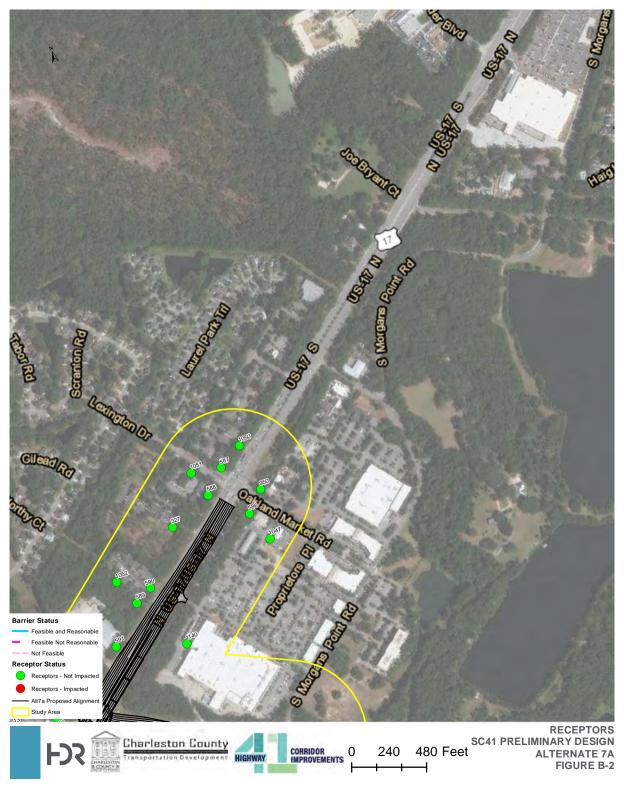


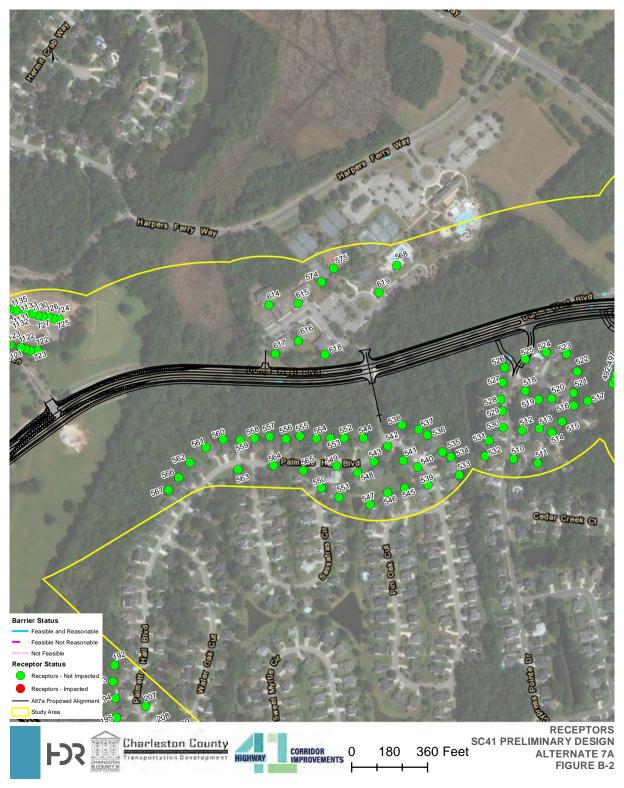


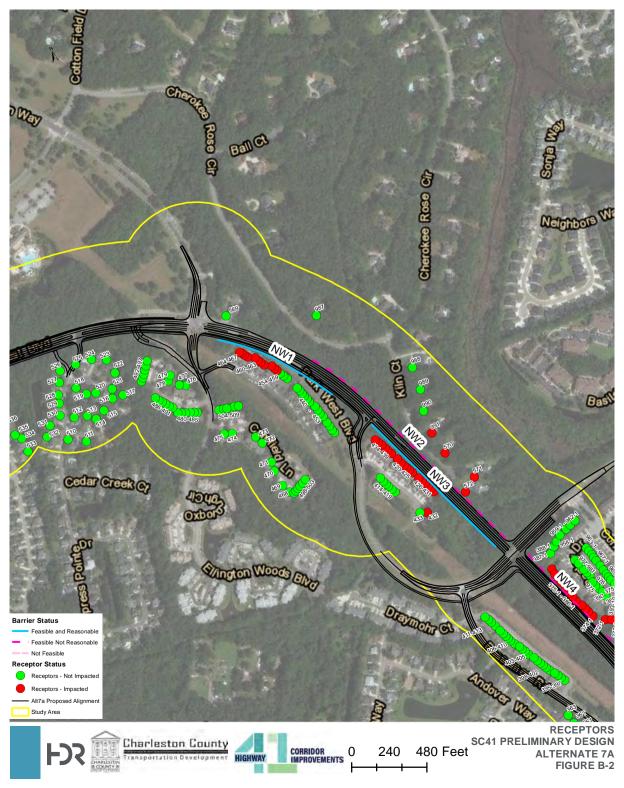


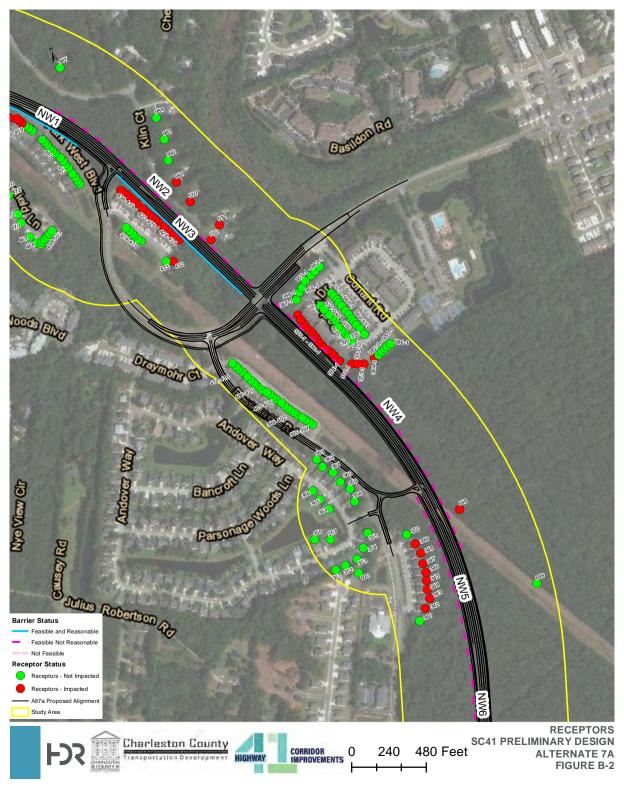


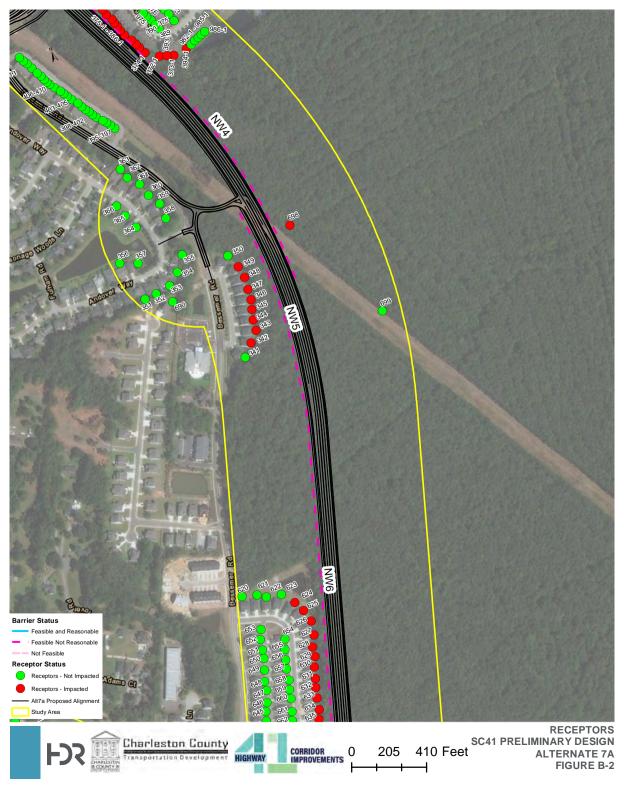












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Appendix C - Modeled Noise Level Results



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Modeled Noise Levels without Abatement

						Alt 1		Alt 7A			
Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Action (2040) Proposed	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	
R0001	Residential	B / 66	51.3	54.4	53.8	2.5	No	54.3	3.0	No	
R0002	Residential	B / 66	59.4	62.5	67.1	7.7	Yes	66.8	7.4	Yes	
R0003	Residential	B / 66	60.0	63.0	63.9	3.9	No	63.1	3.1	No	
R0004	Residential	B / 66	67.1	70.1	66.7	-0.4	Yes	66.1	-1.0	Yes	
R0005	Residential	B / 66	64.2	67.2	63.9	-0.3	No	63.2	-1.0	No	
R0006	Residential	B / 66	55.7	58.8	59.1	3.4	No	58.5	2.8	No	
R0007	Residential	B / 66	54.3	57.4	57.1	2.8	No	56.3	2.0	No	
R0008	Residential	B / 66	61.5	64.5	62.7	1.2	No	62.0	0.5	No	
R0009	Residential	B / 66	62.5	65.5	63.4	0.9	No	62.7	0.2	No	
R0010	Residential	B / 66	63.3	66.2	63.8	0.5	No	63.2	-0.1	No	
R0011	Residential	B / 66	62.6	65.6	63.4	0.8	No	62.7	0.1	No	
R0012	Residential	B / 66	62.1	65.1	63.6	1.5	No	63.0	0.9	No	
R0013	Residential	B / 66	48.7	51.8	52.8	4.1	No	52.0	3.3	No	
R0014	Residential	B / 66	50.9	53.9	52.9	2.0	No	52.1	1.2	No	
R0015	Residential	B / 66	56.3	59.4	60.8	4.5	No	60.1	3.8	No	
R0016	Residential	B / 66	57.7	60.8	61.9	4.2	No	61.1	3.4	No	
R0017	Residential	B / 66	57.1	60.3	61.3	4.2	No	60.6	3.5	No	
R0018	Residential	B / 66	62.8	66.0	65.6	2.8	No	64.7	1.9	No	
R0019	Residential	B / 66	63.1	66.3	65.5	2.4	No	64.8	1.7	No	
R0020	Residential	B / 66	60.6	63.8	63.5	2.9	No	62.7	2.1	No	
R0021	Residential	B / 66	50.2	53.3	53.4	3.2	No	52.0	1.8	No	
R0022	Residential	B / 66	55.2	58.4	58.7	3.5	No	57.0	1.8	No	
R0023	Restaurant	E / 71	66.2	69.5	70.0	3.8	No	62.1	-4.1	No	
R0024	Residential	B / 66	51.0	54.4	55.7	4.7	No	49.8	-1.2	No	
R0025	Residential	B / 66	51.3	54.6	56.2	4.9	No	49.8	-1.5	No	
R0026	Residential	B / 66	51.8	55.0	57.0	5.2	No	49.7	-2.1	No	
R0027	Residential	B / 66	52.1	55.2	57.3	5.2	No	49.7	-2.4	No	
R0028	Residential	B / 66	51.4	54.5	56.6	5.2	No	48.2	-3.2	No	
R0029	Residential	B / 66	50.8	53.9	55.6	4.8	No	47.6	-3.2	No	
R0030	Residential	B / 66	56.9	60.1	63.2	6.3	No	54.6	-2.3	No	
R0031	Residential	B / 66	59.7	62.9	65.1	5.4	No	57.7	-2.0	No	
R0032	Church	D / 66	49.3	52.5	55.4	6.1	No	45.8	-3.5	No	
R0033	Residential	B / 66	51.1	54.2	57.5	6.4	No	47.6	-3.5	No	
R0034	Residential	B / 66	60.1	63.3	65.2	5.1	No	55.4	-4.7	No	
R0035	Residential	B / 66	61.9	65.1	66.2	4.3	Yes	56.9	-5.0	No	

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		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	
R0036	Residential	B / 66	62.5	65.7	66.5	4.0	Yes	58.0	-4.5	No	
R0037	Residential	B / 66	68.9	72.2	71.5	2.6	Yes	63.7	-5.2	No	
R0038	Residential	B / 66	71.9	75.2	73.2	1.3	Yes	65.0	-6.9	No	
R0039	Residential	B / 66	69.9	73.2	72.5	2.6	Yes	64.4	-5.5	No	
R0040	Residential	B / 66	50.9	54.2	56.8	5.9	No	47.4	-3.5	No	
R0041	Residential	B / 66	55.1	58.4	61.0	5.9	No	51.8	-3.3	No	
R0042	Residential	B / 66	53.6	56.9	59.1	5.5	No	50.3	-3.3	No	
R0043	Residential	B / 66	52.3	55.6	58.0	5.7	No	48.9	-3.4	No	
R0044	Residential	B / 66	65.6	68.9	68.3	2.7	Yes	59.9	-5.7	No	
R0045	Residential	B / 66	66.0	69.3	68.1	2.1	Yes	60.5	-5.5	No	
R0046	Residential	B / 66	65.7	68.9	68.9	3.2	Yes	60.1	-5.6	No	
R0047	Residential	B / 66	49.6	52.8	55.4	5.8	No	46.2	-3.4	No	
R0048	Residential	B / 66	54.1	57.4	60.3	6.2	No	50.6	-3.5	No	
R0049	Residential	B / 66	48.8	52.1	55.0	6.2	No	45.5	-3.3	No	
R0050	Residential	B / 66	66.3	69.6	69.7	3.4	Yes	60.7	-5.6	No	
R0051	Residential	B / 66	55.6	58.9	61.5	5.9	No	51.5	-4.1	No	
R0052	Residential	B / 66	53.8	57.1	60.0	6.2	No	50.3	-3.5	No	
R0053	Residential	B / 66	50.5	53.7	56.6	6.1	No	47.3	-3.2	No	
R0054	Residential	B / 66	47.9	51.1	53.8	5.9	No	44.6	-3.3	No	
R0055	Residential	B / 66	44.8	48.0	49.8	5.0	No	44.6	-0.2	No	
R0056	Residential	B / 66	44.6	47.7	48.5	3.9	No	44.6	0.0	No	
R0057	Residential	B / 66	62.3	65.6	67.0	4.7	Yes	56.9	-5.4	No	
R0058	Residential	B / 66	54.6	57.9	60.5	5.9	No	50.7	-3.9	No	
R0059	Residential	B / 66	54.1	57.3	60.2	6.1	No	50.7	-3.4	No	
R0060	Residential	B / 66	50.9	54.1	57.1	6.2	No	47.7	-3.2	No	
R0061	Residential	B / 66	49.8	53.1	55.8	6.0	No	46.6	-3.2	No	
R0062	Residential	B / 66	70.0	73.2	72.6	2.6	Yes	64.0	-6.0	No	
R0063	Residential	B / 66	56.3	59.5	61.9	5.6	No	52.6	-3.7	No	
R0064	Residential	B / 66	61.9	65.2	66.0	4.1	Yes	57.8	-4.1	No	
R0065	Residential	B / 66	50.1	53.3	55.7	5.6	No	46.9	-3.2	No	
R0066	Residential	B / 66	64.2	67.5	69.9	5.7	Yes	60.7	-3.2		
R0066	Residential	B / 66	54.7	57.9	60.3	5.7	No	51.3	-3.5	No No	
R0068	Residential	B / 66	55.1	58.2	59.3	4.2	No	50.9	-4.2	No	
R0069	Residential	B / 66	65.6	68.9	70.9	5.3	Yes	61.4	-4.2	No	
R0070	Residential	B / 66	68.3	71.5	71.8	3.5	Yes	62.9	-5.4	No	
R0071	Residential	B / 66	64.4	67.2	66.9	2.5	Yes	57.6	-6.8	No	
R0072	Residential	B / 66	60.6	63.4	64.6	4.0	No	54.5	-6.1	No	

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		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	
R0073	Residential	B / 66	60.0	62.9	64.4	4.4	No	53.4	-6.6	No	
R0074	Residential	B / 66	63.7	66.5	66.2	2.5	Yes	52.9	-10.8	No	
R0075	Residential	B / 66	53.6	56.5	58.3	4.7	No	50.5	-3.1	No	
R0076	Residential	B / 66	57.7	60.5	58.4	0.7	No	60.9	3.2	No	
R0077	Residential	B / 66	56.9	59.7	57.6	0.7	No	60.3	3.4	No	
R0078	Residential	B / 66	65.4	68.2	64.5	-0.9	No	64.7	-0.7	No	
R0079-1	Residential	B / 66	66.0	68.8	65.9	-0.1	No	65.7	-0.3	No	
R0080	Residential	B / 66	59.3	62.1	60.0	0.7	No	62.4	3.1	No	
R0081-1	Residential	B / 66	54.4	57.2	55.3	0.9	No	56.9	2.5	No	
R0082-1	Residential	B / 66	55.1	58.0	55.8	0.7	No	57.0	1.9	No	
R0083-1	Residential	B / 66	69.7	72.6	69.6	-0.1	Yes	69.8	0.1	Yes	
R0084-1	Residential	B / 66	65.4	68.2	65.3	-0.1	No	65.3	-0.1	No	
R0085-1	Residential	B / 66	61.0	63.8	60.7	-0.3	No	61.0	0.0	No	
R0086-1	Residential	B / 66	53.9	56.7	55.3	1.4	No	55.8	1.9	No	
R0087	Residential	B / 66	66.2	69.0	65.4	-0.8	No	65.2	-1.0	No	
R0088	Residential	B / 66	60.2	63.0	61.3	1.1	No	61.3	1.1	No	
R0089	Residential	B / 66	56.7	59.5	60.2	3.5	No	60.3	3.6	No	
R0090	Residential	B / 66	54.8	57.6	58.1	3.3	No	58.2	3.4	No	
R0091	Residential	B / 66	46.1	48.9	49.8	3.7	No	49.9	3.8	No	
R0092	Residential	B / 66	49.9	52.7	52.2	2.3	No	52.8	2.9	No	
R0093	Residential	B / 66	57.7	60.5	61.9	4.2	No	62.0	4.3	No	
R0094	Residential	B / 66	57.7	60.6	62.2	4.5	No	62.3	4.6	No	
R0095	Residential	B / 66	57.4	60.3	61.9	4.5	No	62.0	4.6	No	
R0096	Residential	B / 66	56.8	59.6	61.2	4.4	No	61.3	4.5	No	
R0097	Residential	B / 66	57.0	59.8	61.3	4.3	No	61.4	4.4	No	
R0098	Residential	B / 66	50.7	53.5	54.3	3.6	No	54.3	3.6	No	
R0099	Residential	B / 66	51.9	54.7	55.4	3.5	No	55.4	3.5	No	
R0100	Residential	B / 66	49.6	52.4	52.5	2.9	No	52.5	2.9	No	
R0101	Residential	B / 66	57.3	60.1	60.3	3.0	No	60.3	3.0	No	
R0101	Residential		63.6	66.4		2.0		65.6	2.0	No	
R0102	Residential	B / 66 B / 66	64.4	67.2	65.6 65.9	1.5	No	65.9	1.5		
R0103	Residential	B / 66	62.4	65.3	64.3	1.9	No No	64.3	1.9	No No	
R0105	Residential	B / 66	56.0	58.9	59.7	3.7	No	59.7	3.7	No	
R0106	Residential	B / 66	54.5	57.3	58.4	3.9	No	58.4	3.9	No	
R0107	Residential	B / 66	58.6	61.4	61.9	3.3	No	61.9	3.3	No	
R0108	Residential	B / 66	61.3	64.1	64.3	3.0	No	64.3	3.0	No	
R0109	Residential	B / 66	62.6	65.5	64.9	2.3	No	64.9	2.3	No	



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		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	
R0110	Residential	B / 66	62.3	65.2	64.9	2.6	No	64.9	2.6	No	
R0111	Residential	B / 66	62.4	65.3	65.3	2.9	No	65.3	2.9	No	
R0112	Residential	B / 66	61.7	64.5	65.1	3.4	No	65.0	3.3	No	
R0113	Residential	B / 66	62.4	65.2	65.6	3.2	No	65.6	3.2	No	
R0114	Residential	B / 66	62.2	65.0	65.1	2.9	No	65.0	2.8	No	
R0115	Residential	B / 66	62.2	65.0	64.8	2.6	No	64.7	2.5	No	
R0116	Residential	B / 66	61.9	64.7	64.5	2.6	No	64.4	2.5	No	
R0117	Residential	B / 66	63.5	66.4	65.2	1.7	No	65.0	1.5	No	
R0118	Residential	B / 66	63.6	66.5	65.1	1.5	No	65.0	1.4	No	
R0119	Residential	B / 66	62.0	64.8	63.8	1.8	No	63.7	1.7	No	
R0120	Residential	B / 66	58.3	61.2	60.4	2.1	No	60.3	2.0	No	
R0121	Residential	B / 66	56.6	59.5	58.6	2.0	No	58.6	2.0	No	
R0122	Residential	B / 66	50.4	53.3	54.9	4.5	No	53.5	3.1	No	
R0123	Residential	B / 66	50.4	53.2	54.6	4.2	No	54.2	3.8	No	
R0124	Residential	B / 66	50.0	52.8	53.6	3.6	No	53.4	3.4	No	
R0125	Residential	B / 66	49.4	52.3	52.5	3.1	No	52.3	2.9	No	
R0126	Restaurant/Patio	E / 71	65.1	68.1	65.9	0.8	No	65.9	0.8	No	
R0127	Restaurant/Patio	E / 71	56.0	59.1	60.5	4.5	No	62.8	6.8	No	
R0128	Restaurant	E / 71	66.4	69.4	70.2	3.8	No	70.1	3.7	No	
R0129	Residential	B / 66	70.1	73.3	73.2	3.1	Yes	73.2	3.1	Yes	
R0130	Residential	B / 66	66.5	69.6	70.9	4.4	Yes	70.9	4.4	Yes	
R0131	Residential	B / 66	70.2	73.4	73.4	3.2	Yes	73.4	3.2	Yes	
R0132	Residential	B / 66	68.9	72.1	72.7	3.8	Yes	72.7	3.8	Yes	
R0133	Residential	B / 66	63.9	67.0	68.8	4.9	Yes	68.7	4.8	Yes	
R0134	Residential	B / 66	72.3	75.2	76.7	4.4	Yes	76.7	4.4	Yes	
R0135	Residential	B / 66	59.2	62.3	61.0	1.8	No	61.7	2.5	No	
R0136	Residential	B / 66	55.3	58.5	57.9	2.6	No	57.5	2.2	No	
R0137	Residential	B / 66	56.5	59.6	59.0	2.5	No	58.5	2.0	No	
R0138	Residential	B / 66	61.2	64.4	63.6	2.4	No	63.0	1.8	No	
R0139	Residential	B / 66	61.9	65.0	64.4	2.5	No	63.8	1.9	No	
R0140	Residential	B / 66	62.4	65.6	65.3	2.9	No	64.7	2.3	No	
R0141	Residential	B / 66	62.3	65.5	65.3	3.0	No	64.7	2.4	No	
R0142	Residential	B / 66	60.8	63.9	64.1	3.3	No	63.5	2.7	No	
R0143	Residential	B / 66	61.0	64.2	64.3	3.3	No	63.7	2.7	No	
R0144	Residential	B / 66	59.0	62.1	62.6	3.6	No	62.0	3.0	No	
R0145	Residential	B / 66	59.5	62.6	62.9	3.4	No	62.3	2.8	No	
R0146	Residential	B / 66	59.4	62.5	62.9	3.5	No	62.3	2.9	No	

		Activity Category / CDOT NAC		No Action (2040)		Alt 1		Alt 7A		
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		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0147	Residential	B / 66	59.3	62.5	62.8	3.5	No	62.2	2.9	No
R0148	Residential	B / 66	59.1	62.3	62.7	3.6	No	62.0	2.9	No
R0149	Residential	B / 66	59.0	62.2	62.6	3.6	No	61.9	2.9	No
R0150	Residential	B / 66	59.8	62.9	63.2	3.4	No	62.6	2.8	No
R0151	Residential	B / 66	59.8	62.9	63.1	3.3	No	62.5	2.7	No
R0152	Residential	B / 66	59.6	62.7	62.8	3.2	No	62.3	2.7	No
R0153	Residential	B / 66	59.6	62.8	62.7	3.1	No	62.1	2.5	No
R0154	Residential	B / 66	59.3	62.4	62.5	3.2	No	61.8	2.5	No
R0155	Residential	B / 66	59.5	62.6	62.7	3.2	No	62.0	2.5	No
R0156	Residential	B / 66	59.3	62.5	62.6	3.3	No	61.8	2.5	No
R0157	Residential	B / 66	59.6	62.7	62.7	3.1	No	62.0	2.4	No
R0158	Residential	B / 66	59.4	62.5	62.5	3.1	No	61.8	2.4	No
R0159	Residential	B / 66	59.3	62.5	62.5	3.2	No	61.8	2.5	No
R0160	Residential	B / 66	59.8	62.9	62.9	3.1	No	62.1	2.3	No
R0161	Residential	B / 66	59.8	62.9	63.1	3.3	No	62.1	2.3	No
R0162	Residential	B / 66	60.1	63.2	63.5	3.4	No	62.4	2.3	No
R0163	Residential	B / 66	59.9	63.0	63.4	3.5	No	62.3	2.4	No
R0164	Residential	B / 66	59.9	63.0	63.4	3.5	No	62.3	2.4	No
R0165	Residential	B / 66	60.1	63.3	63.5	3.4	No	62.6	2.5	No
R0166	Residential	B / 66	59.6	62.7	63.0	3.4	No	62.1	2.5	No
R0167	Residential	B / 66	59.7	62.9	63.2	3.5	No	62.1	2.4	No
R0168	Residential	B / 66	59.4	62.6	63.0	3.6	No	61.8	2.4	No
R0169	Residential	B / 66	59.5	62.7	62.9	3.4	No	62.0	2.5	No
R0170	Residential	B / 66	59.9	63.0	63.0	3.1	No	62.2	2.3	No
R0171	Residential	B / 66	60.0	63.1	63.1	3.1	No	62.2	2.2	No
R0172	Residential	B / 66	59.8	63.0	63.0	3.2	No	62.0	2.2	No
R0173	Residential	B / 66	60.1	63.3	63.2	3.1	No	62.2	2.1	No
R0174	Residential	B / 66	60.4	63.5	63.4	3.0	No	62.4	2.0	No
R0175	Residential	B / 66	60.1	63.3	63.2	3.1	No	62.1	2.0	No
R0176	Residential	B / 66	59.6	62.8	62.8	3.2	No	61.6	2.0	No
R0177	Residential	B / 66	59.7	62.9	62.9	3.2	No	61.7	2.0	No
R0178	Residential	B / 66	59.5	62.7	62.8	3.3	No	61.3	1.8	No
R0179	Residential	B / 66	59.7	62.8	63.0	3.3	No	61.3	1.6	No
R0180	Residential	B / 66	60.0	63.2	63.3	3.3	No	61.6	1.6	No
R0181	Residential	B / 66	59.5	62.7	63.0	3.5	No	61.1	1.6	No
R0182	Residential	B / 66	59.7	62.9	63.2	3.5	No	61.2	1.5	No
R0183	Residential	B / 66	59.2	62.4	62.9	3.7	No	60.9	1.7	No



Receiver Description						Alt 1			Alt 7A			
RO184 Residential B / 66 58.8 62.0 62.6 3.8 NO 60.7 1.9	Receiver ID	Receiver Description	Category /	_	Action	Action	Action	Action Causes	Action	Action	Proposed Action Causes Impact?	
R0185 Residential B / 66 S8.6 61.8 62.4 3.8 No 60.6 2.0 1			(dBA)	L _{eq} (dBA)		L _{eq} (dBA)	From Existing		L _{eq} (dBA)	From Existing	(Yes or No)	
R0186 Residential B / 66 57.6 60.8 61.6 4.0 No 60.0 2.4 No R0187 Residential B / 66 57.0 60.2 61.1 4.1 No 59.6 2.6 No R0188 Residential B / 66 56.3 59.5 60.7 4.4 No 59.2 2.9 No R0189 Residential B / 66 56.0 59.2 60.4 4.4 No 59.1 3.1 No R0190 Residential B / 66 55.3 58.5 59.9 4.6 No 58.7 3.4 No 58.7 3.4 No 79.2 79.2 79.2 No 79.2	R0184	Residential	B / 66	58.8	62.0	62.6	3.8	No	60.7	1.9	No	
R0187 Residential B / 66 57.0 60.2 61.1 4.1 No 59.6 2.6 1 R0188 Residential B / 66 56.3 59.5 60.7 4.4 No 59.2 2.9 1 R0189 Residential B / 66 56.0 59.2 60.4 4.4 No 59.1 3.1 1 R0190 Residential B / 66 55.3 58.5 59.9 4.6 No 58.7 3.4 1 R0191 Residential B / 66 55.3 58.5 59.9 4.6 No 58.7 3.4 1 R0191 Residential B / 66 55.3 58.5 59.9 4.6 No 58.7 3.4 1 R0192 Residential B / 66 50.5 53.8 55.2 4.7 No 49.3 1.2 1 R0193 Residential B / 66 51.3 54.5 56.8 5.5 No 49.6 -1.7 1 R0194 Residential B / 66 51.3 54.5 56.8 5.5 No 49.6 -1.7 1 R0195 Residential B / 66 53.9 57.1 60.3 6.4 No 51.5 -2.4 1 R0195 Residential B / 66 55.0 58.2 61.5 6.5 No 52.4 -2.6 1 R0196 Residential B / 66 55.0 58.2 61.5 6.5 No 52.4 -2.6 1 R0198 Residential B / 66 55.0 58.2 61.7 6.7 No 52.5 -2.5 1 R0199 Residential B / 66 55.2 58.4 61.8 6.6 No 52.7 -2.5 1 R0200 Residential B / 66 55.5 58.2 61.7 6.6 No 52.5 -2.5 1 R0201 Residential B / 66 55.6 58.7 62.1 6.5 No 53.1 -2.2 1 R0202 Residential B / 66 55.6 58.7 62.1 6.5 No 53.1 -2.5 1 R0204 Residential B / 66 54.5 57.7 61.3 6.8 No 51.7 -2.8 1 R0204 Residential B / 66 54.5 57.7 61.3 6.8 No 51.7 -2.8 1 R0205 Residential B / 66 54.5 57.7 61.3 6.8 No 50.7 -2.8 1 R0206 Residential B / 66 54.5 57.7 61.3 6.8 No 54.8 -3.5 1 R0206 Residential B / 66 45.8 48.9 50.3 4.5 No 44.6 -2.0 1 R0207 Residential B / 66 45.8 48.9 50.3 4.5 No 44.6 -2.0 1 R0207 Residential B / 66 45.8 48.8 49.8 4.0 No 44.6 -2.2 1 R0212 Residential B / 66 45.6 45.8 48.8 49.8 4.0 No 44.6 -1.2 1 R0212 Residential	R0185	Residential	B / 66	58.6	61.8	62.4	3.8	No	60.6	2.0	No	
R0188 Residential B / 66 56.3 59.5 60.7 4.4 No 59.2 2.9 PR R0189 Residential B / 66 56.0 59.2 60.4 4.4 No 59.1 3.1 1 R0190 Residential B / 66 55.3 58.5 59.9 4.6 No 58.7 3.4 1 R0191 Residential B / 66 54.8 58.0 59.4 4.6 No 58.5 3.7 1 R0192 Residential B / 66 50.5 53.8 55.2 4.7 No 49.3 -1.2 1 R0193 Residential B / 66 51.9 55.2 57.8 5.9 No 49.6 -1.7 1 R0193 Residential B / 66 51.9 55.2 57.8 5.9 No 49.8 -2.1 1 R0195 Residential B / 66 55.0 58.2 61.5 6.5 No	R0186	Residential	B / 66	57.6	60.8	61.6	4.0	No	60.0	2.4	No	
R0189 Residential B / 66 56.0 59.2 60.4 4.4 No 59.1 3.1 No R0190 Residential B / 66 55.3 58.5 59.9 4.6 No 58.7 3.4 No R0191 Residential B / 66 54.8 58.0 59.4 4.6 No 58.5 3.7 M R0192 Residential B / 66 50.5 53.8 55.2 4.7 No 49.3 -1.2 M R0193 Residential B / 66 51.9 55.2 57.8 5.9 No 49.8 -2.1 M R0194 Residential B / 66 51.9 55.2 57.8 5.9 No 49.8 -2.1 M R0195 Residential B / 66 51.9 55.2 57.8 5.9 No 49.8 -2.1 M R0197 Residential B / 66 54.3 57.5 61.0 6.7 No <td>R0187</td> <td>Residential</td> <td>B / 66</td> <td>57.0</td> <td>60.2</td> <td>61.1</td> <td>4.1</td> <td>No</td> <td>59.6</td> <td>2.6</td> <td>No</td>	R0187	Residential	B / 66	57.0	60.2	61.1	4.1	No	59.6	2.6	No	
R0190 Residential B / 66 55.3 58.5 59.9 4.6 No 58.7 3.4 PR R0191 Residential B / 66 54.8 58.0 59.4 4.6 No 58.5 3.7 PR R0192 Residential B / 66 50.5 53.8 55.2 4.7 No 49.3 -1.2 PR R0193 Residential B / 66 51.3 54.5 56.8 5.5 No 49.6 -1.7 PR R0194 Residential B / 66 51.9 55.2 57.8 5.9 No 49.8 -2.1 PR R0195 Residential B / 66 53.9 57.1 60.3 6.4 No 51.5 -2.4 PR R0196 Residential B / 66 55.0 58.2 61.5 6.5 No 52.4 -2.6 PR R0198 Residential B / 66 55.0 58.2 61.7 6.7	R0188	Residential	B / 66	56.3	59.5	60.7	4.4	No	59.2	2.9	No	
R0191 Residential B / 66 54.8 58.0 59.4 4.6 No 58.5 3.7 PR R0192 Residential B / 66 50.5 53.8 55.2 4.7 No 49.3 -1.2 PR R0193 Residential B / 66 51.3 54.5 56.8 5.5 No 49.6 -1.7 PR R0194 Residential B / 66 51.9 55.2 57.8 5.9 No 49.8 -2.1 PR R0195 Residential B / 66 53.9 57.1 60.3 6.4 No 51.5 -2.4 PR R0196 Residential B / 66 55.0 58.2 61.5 6.5 No 52.4 -2.6 PR R0197 Residential B / 66 55.0 58.2 61.5 6.5 No 52.4 -2.6 PR R0197 Residential B / 66 55.0 58.2 61.7 6.7 <td< td=""><td>R0189</td><td>Residential</td><td>B / 66</td><td>56.0</td><td>59.2</td><td>60.4</td><td>4.4</td><td>No</td><td>59.1</td><td>3.1</td><td>No</td></td<>	R0189	Residential	B / 66	56.0	59.2	60.4	4.4	No	59.1	3.1	No	
R0192 Residential B / 66 50.5 53.8 55.2 4.7 No 49.3 -1.2 No R0193 Residential B / 66 51.3 54.5 56.8 5.5 No 49.6 -1.7 No R0194 Residential B / 66 51.9 55.2 57.8 5.9 No 49.8 -2.1 No R0195 Residential B / 66 53.9 57.1 60.3 6.4 No 51.5 -2.4 M R0196 Residential B / 66 55.0 58.2 61.5 6.5 No 52.4 -2.6 M R0197 Residential B / 66 55.0 58.2 61.7 6.7 No 51.5 -2.8 M R0198 Residential B / 66 55.0 58.2 61.7 6.7 No 52.5 -2.5 M R0199 Residential B / 66 55.1 58.1 61.7 6.6 No	R0190	Residential	B / 66	55.3	58.5	59.9	4.6	No	58.7	3.4	No	
R0193 Residential B / 66 51.3 54.5 56.8 5.5 No 49.6 -1.7 PR R0194 Residential B / 66 51.9 55.2 57.8 5.9 No 49.8 -2.1 PR R0195 Residential B / 66 53.9 57.1 60.3 6.4 No 51.5 -2.4 PR R0196 Residential B / 66 55.0 58.2 61.5 6.5 No 52.4 -2.6 PR R0197 Residential B / 66 55.0 58.2 61.7 6.7 No 51.5 -2.8 PR R0198 Residential B / 66 55.0 58.2 61.7 6.7 No 52.5 -2.5 PR R0199 Residential B / 66 55.2 58.4 61.8 6.6 No 52.7 -2.5 PR R0200 Residential B / 66 55.6 58.7 62.1 6.5 <t< td=""><td>R0191</td><td>Residential</td><td>B / 66</td><td>54.8</td><td>58.0</td><td>59.4</td><td>4.6</td><td>No</td><td>58.5</td><td>3.7</td><td>No</td></t<>	R0191	Residential	B / 66	54.8	58.0	59.4	4.6	No	58.5	3.7	No	
R0194 Residential B / 66 51.9 55.2 57.8 5.9 No 49.8 -2.1 R R0195 Residential B / 66 53.9 57.1 60.3 6.4 No 51.5 -2.4 1 R0196 Residential B / 66 55.0 58.2 61.5 6.5 No 52.4 -2.6 1 R0197 Residential B / 66 55.0 58.2 61.7 6.7 No 51.5 -2.8 1 R0198 Residential B / 66 55.0 58.2 61.7 6.7 No 52.5 -2.5 1 R0199 Residential B / 66 55.2 58.4 61.8 6.6 No 52.7 -2.5 1 R0200 Residential B / 66 55.1 58.3 61.7 6.6 No 52.7 -2.5 1 R0201 Residential B / 66 54.5 57.7 61.3 6.8 No <td>R0192</td> <td>Residential</td> <td>B / 66</td> <td>50.5</td> <td>53.8</td> <td>55.2</td> <td>4.7</td> <td>No</td> <td>49.3</td> <td>-1.2</td> <td>No</td>	R0192	Residential	B / 66	50.5	53.8	55.2	4.7	No	49.3	-1.2	No	
R0195 Residential B / 66 53.9 57.1 60.3 6.4 No 51.5 -2.4 M R0196 Residential B / 66 55.0 58.2 61.5 6.5 No 52.4 -2.6 M R0197 Residential B / 66 54.3 57.5 61.0 6.7 No 51.5 -2.8 M R0198 Residential B / 66 55.0 58.2 61.7 6.7 No 52.5 -2.5 M R0199 Residential B / 66 55.2 58.4 61.8 6.6 No 52.7 -2.5 M R0200 Residential B / 66 55.1 58.3 61.7 6.6 No 52.5 -2.6 M R0201 Residential B / 66 55.6 58.7 62.1 6.5 No 53.1 -2.5 M R0202 Residential B / 66 53.5 56.6 60.4 6.9 No <td>R0193</td> <td>Residential</td> <td>B / 66</td> <td>51.3</td> <td>54.5</td> <td>56.8</td> <td>5.5</td> <td>No</td> <td>49.6</td> <td>-1.7</td> <td>No</td>	R0193	Residential	B / 66	51.3	54.5	56.8	5.5	No	49.6	-1.7	No	
R0196 Residential B / 66 55.0 58.2 61.5 6.5 No 52.4 -2.6 No R0197 Residential B / 66 54.3 57.5 61.0 6.7 No 51.5 -2.8 No R0198 Residential B / 66 55.0 58.2 61.7 6.7 No 52.5 -2.5 No R0199 Residential B / 66 55.2 58.4 61.8 6.6 No 52.7 -2.5 No R0200 Residential B / 66 55.1 58.3 61.7 6.6 No 52.5 -2.6 No R0201 Residential B / 66 55.6 58.7 62.1 6.5 No 53.1 -2.5 No R0202 Residential B / 66 54.5 57.7 61.3 6.8 No 51.7 -2.8 No R0203 Residential B / 66 51.6 54.7 58.3 6.7 <t< td=""><td>R0194</td><td>Residential</td><td>B / 66</td><td>51.9</td><td>55.2</td><td>57.8</td><td>5.9</td><td>No</td><td>49.8</td><td>-2.1</td><td>No</td></t<>	R0194	Residential	B / 66	51.9	55.2	57.8	5.9	No	49.8	-2.1	No	
R0197 Residential B / 66 54.3 57.5 61.0 6.7 No 51.5 -2.8 ft R0198 Residential B / 66 55.0 58.2 61.7 6.7 No 52.5 -2.5 ft R0199 Residential B / 66 55.2 58.4 61.8 6.6 No 52.7 -2.5 ft R0200 Residential B / 66 55.1 58.3 61.7 6.6 No 52.5 -2.6 ft R0201 Residential B / 66 55.6 58.7 62.1 6.5 No 53.1 -2.5 ft R0202 Residential B / 66 54.5 57.7 61.3 6.8 No 51.7 -2.8 ft R0203 Residential B / 66 51.6 54.7 58.3 6.7 No 48.4 -3.2 ft R0204 Residential B / 66 51.6 54.7 58.3 6.7 <t< td=""><td>R0195</td><td>Residential</td><td>B / 66</td><td>53.9</td><td>57.1</td><td>60.3</td><td>6.4</td><td>No</td><td>51.5</td><td>-2.4</td><td>No</td></t<>	R0195	Residential	B / 66	53.9	57.1	60.3	6.4	No	51.5	-2.4	No	
R0197 Residential B / 66 54.3 57.5 61.0 6.7 No 51.5 -2.8 ft R0198 Residential B / 66 55.0 58.2 61.7 6.7 No 52.5 -2.5 ft R0199 Residential B / 66 55.2 58.4 61.8 6.6 No 52.7 -2.5 ft R0200 Residential B / 66 55.1 58.3 61.7 6.6 No 52.5 -2.6 ft R0201 Residential B / 66 55.6 58.7 62.1 6.5 No 53.1 -2.5 ft R0202 Residential B / 66 54.5 57.7 61.3 6.8 No 51.7 -2.8 ft R0203 Residential B / 66 51.6 54.7 58.3 6.7 No 48.4 -3.2 ft R0204 Residential B / 66 51.6 54.7 58.3 6.7 <t< td=""><td>R0196</td><td>Residential</td><td>B / 66</td><td>55.0</td><td>58.2</td><td>61.5</td><td>6.5</td><td>No</td><td>52.4</td><td>-2.6</td><td>No</td></t<>	R0196	Residential	B / 66	55.0	58.2	61.5	6.5	No	52.4	-2.6	No	
R0198 Residential B / 66 55.0 58.2 61.7 6.7 No 52.5 -2.5 No R0199 Residential B / 66 55.2 58.4 61.8 6.6 No 52.7 -2.5 No R0200 Residential B / 66 55.1 58.3 61.7 6.6 No 52.5 -2.6 No R0201 Residential B / 66 55.6 58.7 62.1 6.5 No 53.1 -2.5 M R0202 Residential B / 66 54.5 57.7 61.3 6.8 No 51.7 -2.8 M R0203 Residential B / 66 53.5 56.6 60.4 6.9 No 50.7 -2.8 M R0204 Residential B / 66 51.6 54.7 58.3 6.7 No 48.4 -3.2 M R0205 Residential B / 66 47.8 50.7 52.9 5.1 No	R0197	Residential			57.5			No		-2.8	No	
R0199 Residential B / 66 55.2 58.4 61.8 6.6 No 52.7 -2.5 No R0200 Residential B / 66 55.1 58.3 61.7 6.6 No 52.5 -2.6 M R0201 Residential B / 66 55.6 58.7 62.1 6.5 No 53.1 -2.5 M R0202 Residential B / 66 54.5 57.7 61.3 6.8 No 51.7 -2.8 M R0203 Residential B / 66 53.5 56.6 60.4 6.9 No 50.7 -2.8 M R0204 Residential B / 66 51.6 54.7 58.3 6.7 No 48.4 -3.2 M R0205 Residential B / 66 49.3 52.3 55.1 5.8 No 45.8 -3.5 M R0206 Residential B / 66 46.6 49.7 51.3 4.7 No </td <td>R0198</td> <td></td> <td>· ·</td> <td></td> <td></td> <td>61.7</td> <td>6.7</td> <td>No</td> <td>52.5</td> <td></td> <td>No</td>	R0198		· ·			61.7	6.7	No	52.5		No	
R0200 Residential B / 66 55.1 58.3 61.7 6.6 No 52.5 -2.6 No R0201 Residential B / 66 55.6 58.7 62.1 6.5 No 53.1 -2.5 No R0202 Residential B / 66 54.5 57.7 61.3 6.8 No 51.7 -2.8 No R0203 Residential B / 66 53.5 56.6 60.4 6.9 No 50.7 -2.8 No R0204 Residential B / 66 51.6 54.7 58.3 6.7 No 48.4 -3.2 No R0205 Residential B / 66 49.3 52.3 55.1 5.8 No 45.8 -3.5 No R0206 Residential B / 66 47.8 50.7 52.9 5.1 No 44.6 -3.2 No R0207 Residential B / 66 45.8 48.9 50.3 4.5 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>No</td></t<>											No	
R0201 Residential B / 66 55.6 58.7 62.1 6.5 No 53.1 -2.5 M R0202 Residential B / 66 54.5 57.7 61.3 6.8 No 51.7 -2.8 M R0203 Residential B / 66 53.5 56.6 60.4 6.9 No 50.7 -2.8 M R0204 Residential B / 66 51.6 54.7 58.3 6.7 No 48.4 -3.2 M R0205 Residential B / 66 49.3 52.3 55.1 5.8 No 45.8 -3.5 M R0206 Residential B / 66 47.8 50.7 52.9 5.1 No 44.6 -3.2 M R0207 Residential B / 66 46.6 49.7 51.3 4.7 No 44.6 -2.0 M R0208 Residential B / 66 45.8 48.9 50.3 4.5 No <td></td> <td></td> <td>· ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>No</td>			· ·								No	
R0202 Residential B / 66 54.5 57.7 61.3 6.8 No 51.7 -2.8 N R0203 Residential B / 66 53.5 56.6 60.4 6.9 No 50.7 -2.8 N R0204 Residential B / 66 51.6 54.7 58.3 6.7 No 48.4 -3.2 N R0205 Residential B / 66 49.3 52.3 55.1 5.8 No 45.8 -3.5 N R0206 Residential B / 66 47.8 50.7 52.9 5.1 No 44.6 -3.2 N R0207 Residential B / 66 46.6 49.7 51.3 4.7 No 44.6 -2.0 N R0208 Residential B / 66 45.8 48.9 50.3 4.5 No 44.6 -1.2 N R0209 Residential B / 66 45.0 48.0 48.7 3.7 No <td></td> <td>Residential</td> <td></td> <td></td> <td></td> <td>62.1</td> <td>6.5</td> <td>No</td> <td></td> <td></td> <td>No</td>		Residential				62.1	6.5	No			No	
R0203 Residential B / 66 53.5 56.6 60.4 6.9 No 50.7 -2.8 N R0204 Residential B / 66 51.6 54.7 58.3 6.7 No 48.4 -3.2 N R0205 Residential B / 66 49.3 52.3 55.1 5.8 No 45.8 -3.5 N R0206 Residential B / 66 47.8 50.7 52.9 5.1 No 44.6 -3.2 N R0207 Residential B / 66 46.6 49.7 51.3 4.7 No 44.6 -2.0 N R0208 Residential B / 66 45.8 48.9 50.3 4.5 No 44.6 -1.2 N R0209 Residential B / 66 45.0 48.0 48.7 3.7 No 44.6 -0.4 N R0210 Residential B / 66 45.8 48.8 49.8 4.0 No <td></td> <td>No</td>											No	
R0204 Residential B / 66 51.6 54.7 58.3 6.7 No 48.4 -3.2 No R0205 Residential B / 66 49.3 52.3 55.1 5.8 No 45.8 -3.5 No R0206 Residential B / 66 47.8 50.7 52.9 5.1 No 44.6 -3.2 No R0207 Residential B / 66 46.6 49.7 51.3 4.7 No 44.6 -2.0 No R0208 Residential B / 66 45.8 48.9 50.3 4.5 No 44.6 -1.2 No R0209 Residential B / 66 45.0 48.0 48.7 3.7 No 44.6 -0.4 No R0210 Residential B / 66 45.8 48.8 49.8 4.0 No 44.6 0.0 No R0211 Residential B / 66 45.8 48.8 49.8 4.0 <td< td=""><td></td><td></td><td>· ·</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>No</td></td<>			· ·								No	
R0205 Residential B / 66 49.3 52.3 55.1 5.8 No 45.8 -3.5 No R0206 Residential B / 66 47.8 50.7 52.9 5.1 No 44.6 -3.2 No R0207 Residential B / 66 46.6 49.7 51.3 4.7 No 44.6 -2.0 No R0208 Residential B / 66 45.8 48.9 50.3 4.5 No 44.6 -1.2 No R0209 Residential B / 66 45.0 48.0 48.7 3.7 No 44.6 -0.4 No R0210 Residential B / 66 44.6 46.0 46.4 1.8 No 44.6 0.0 No R0211 Residential B / 66 45.8 48.8 49.8 4.0 No 44.6 -1.2 No R0212 Residential B / 66 46.8 49.9 51.7 4.9 <td< td=""><td></td><td></td><td>·</td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td>No</td></td<>			·					_			No	
R0206 Residential B / 66 47.8 50.7 52.9 5.1 No 44.6 -3.2 No R0207 Residential B / 66 46.6 49.7 51.3 4.7 No 44.6 -2.0 No R0208 Residential B / 66 45.8 48.9 50.3 4.5 No 44.6 -1.2 No R0209 Residential B / 66 45.0 48.0 48.7 3.7 No 44.6 -0.4 No R0210 Residential B / 66 44.6 46.0 46.4 1.8 No 44.6 0.0 No R0211 Residential B / 66 45.8 48.8 49.8 4.0 No 44.6 -1.2 No R0212 Residential B / 66 46.8 49.9 51.7 4.9 No 44.6 -2.2 No R0213 Residential B / 66 46.1 49.1 50.8 4.7 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>No</td></td<>											No	
R0207 Residential B / 66 46.6 49.7 51.3 4.7 No 44.6 -2.0 No R0208 Residential B / 66 45.8 48.9 50.3 4.5 No 44.6 -1.2 No R0209 Residential B / 66 45.0 48.0 48.7 3.7 No 44.6 -0.4 No R0210 Residential B / 66 44.6 46.0 46.4 1.8 No 44.6 0.0 No R0211 Residential B / 66 45.8 48.8 49.8 4.0 No 44.6 -1.2 No R0212 Residential B / 66 46.8 49.9 51.7 4.9 No 44.6 -2.2 No R0213 Residential B / 66 46.1 49.1 50.8 4.7 No 44.6 -1.5 No R0214 Residential B / 66 60.5 63.7 66.1 5.6 <td< td=""><td></td><td></td><td>·</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>No</td></td<>			·								No	
R0208 Residential B / 66 45.8 48.9 50.3 4.5 No 44.6 -1.2 No R0209 Residential B / 66 45.0 48.0 48.7 3.7 No 44.6 -0.4 No R0210 Residential B / 66 44.6 46.0 46.4 1.8 No 44.6 0.0 No R0211 Residential B / 66 45.8 48.8 49.8 4.0 No 44.6 -1.2 No R0212 Residential B / 66 46.8 49.9 51.7 4.9 No 44.6 -2.2 No R0213 Residential B / 66 46.1 49.1 50.8 4.7 No 44.6 -1.5 No R0214 Residential B / 66 44.6 46.4 47.0 2.4 No 44.6 0.0 No R0215 Residential B / 66 60.5 63.7 66.1 5.6											No	
R0209 Residential B / 66 45.0 48.0 48.7 3.7 No 44.6 -0.4 No R0210 Residential B / 66 44.6 46.0 46.4 1.8 No 44.6 0.0 No R0211 Residential B / 66 45.8 48.8 49.8 4.0 No 44.6 -1.2 No R0212 Residential B / 66 46.8 49.9 51.7 4.9 No 44.6 -2.2 No R0213 Residential B / 66 46.1 49.1 50.8 4.7 No 44.6 -1.5 No R0214 Residential B / 66 44.6 46.4 47.0 2.4 No 44.6 0.0 No R0215 Residential B / 66 60.5 63.7 66.1 5.6 Yes 58.2 -2.3 No R0216 Residential B / 66 66.7 69.9 71.6 4.9 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>No</td></td<>											No	
R0210 Residential B / 66 44.6 46.0 46.4 1.8 No 44.6 0.0 No R0211 Residential B / 66 45.8 48.8 49.8 4.0 No 44.6 -1.2 No R0212 Residential B / 66 46.8 49.9 51.7 4.9 No 44.6 -2.2 No R0213 Residential B / 66 46.1 49.1 50.8 4.7 No 44.6 -1.5 No R0214 Residential B / 66 44.6 46.4 47.0 2.4 No 44.6 0.0 No R0215 Residential B / 66 60.5 63.7 66.1 5.6 Yes 58.2 -2.3 No R0216 Residential B / 66 66.7 69.9 71.6 4.9 Yes 63.6 -3.1 No R0217 Residential B / 66 54.2 57.4 61.0 6.8 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>No</td></t<>											No	
R0211 Residential B / 66 45.8 48.8 49.8 4.0 No 44.6 -1.2 No R0212 Residential B / 66 46.8 49.9 51.7 4.9 No 44.6 -2.2 No R0213 Residential B / 66 46.1 49.1 50.8 4.7 No 44.6 -1.5 No R0214 Residential B / 66 44.6 46.4 47.0 2.4 No 44.6 0.0 No R0215 Residential B / 66 60.5 63.7 66.1 5.6 Yes 58.2 -2.3 No R0216 Residential B / 66 66.7 69.9 71.6 4.9 Yes 63.6 -3.1 No R0217 Residential B / 66 54.2 57.4 61.0 6.8 No 51.2 -3.0 No			·								No	
R0212 Residential B / 66 46.8 49.9 51.7 4.9 No 44.6 -2.2 No R0213 Residential B / 66 46.1 49.1 50.8 4.7 No 44.6 -1.5 No R0214 Residential B / 66 44.6 46.4 47.0 2.4 No 44.6 0.0 No R0215 Residential B / 66 60.5 63.7 66.1 5.6 Yes 58.2 -2.3 No R0216 Residential B / 66 66.7 69.9 71.6 4.9 Yes 63.6 -3.1 No R0217 Residential B / 66 54.2 57.4 61.0 6.8 No 51.2 -3.0 No											No	
R0213 Residential B / 66 46.1 49.1 50.8 4.7 No 44.6 -1.5 No R0214 Residential B / 66 44.6 46.4 47.0 2.4 No 44.6 0.0 No R0215 Residential B / 66 60.5 63.7 66.1 5.6 Yes 58.2 -2.3 No R0216 Residential B / 66 66.7 69.9 71.6 4.9 Yes 63.6 -3.1 No R0217 Residential B / 66 54.2 57.4 61.0 6.8 No 51.2 -3.0 No			·								No	
R0214 Residential B / 66 44.6 46.4 47.0 2.4 No 44.6 0.0 No R0215 Residential B / 66 60.5 63.7 66.1 5.6 Yes 58.2 -2.3 No R0216 Residential B / 66 66.7 69.9 71.6 4.9 Yes 63.6 -3.1 No R0217 Residential B / 66 54.2 57.4 61.0 6.8 No 51.2 -3.0 No											No	
R0215 Residential B / 66 60.5 63.7 66.1 5.6 Yes 58.2 -2.3 N R0216 Residential B / 66 66.7 69.9 71.6 4.9 Yes 63.6 -3.1 N R0217 Residential B / 66 54.2 57.4 61.0 6.8 No 51.2 -3.0 N											No	
R0216 Residential B / 66 66.7 69.9 71.6 4.9 Yes 63.6 -3.1 N R0217 Residential B / 66 54.2 57.4 61.0 6.8 No 51.2 -3.0 N			·								No	
R0217 Residential B / 66 54.2 57.4 61.0 6.8 No 51.2 -3.0 N											No	
											No	
NO210 RESIDENTIAL D / 00 30.9 00.1 03.0 0.1 NO 33.4 -3.5 I											No	
R0219 Residential B / 66 53.7 56.8 60.4 6.7 No 50.6 -3.1 N			·									
											No No	

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Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0221	Residential	B / 66	48.4	51.5	54.8	6.4	No	44.9	-3.5	No
R0222	Residential	B / 66	47.7	50.8	53.3	5.6	No	44.6	-3.1	No
R0223	Residential	B / 66	47.5	50.6	52.7	5.2	No	44.6	-2.9	No
R0224	Residential	B / 66	46.7	49.8	51.6	4.9	No	44.6	-2.1	No
R0225	Residential	B / 66	54.1	57.3	60.4	6.3	No	50.7	-3.4	No
R0226	Residential	B / 66	48.2	51.4	54.4	6.2	No	45.3	-2.9	No
R0227	Residential	B / 66	46.2	49.4	51.5	5.3	No	44.6	-1.6	No
R0228	Residential	B / 66	44.6	47.8	49.1	4.5	No	44.6	0.0	No
R0229	Residential	B / 66	44.6	46.2	47.5	2.9	No	44.6	0.0	No
R0230	Residential	B / 66	51.8	55.0	58.1	6.3	No	48.4	-3.4	No
R0231	Residential	B / 66	63.7	66.9	69.1	5.4	Yes	61.2	-2.5	No
R0232	Residential	B / 66	51.3	54.5	57.3	6.0	No	48.1	-3.2	No
R0233	Residential	B / 66	48.3	51.6	53.0	4.7	No	44.7	-3.6	No
R0234	Residential	B / 66	50.7	54.0	56.3	5.6	No	47.4	-3.3	No
R0235	Residential	B / 66	61.6	64.9	67.0	5.4	Yes	58.4	-3.2	No
R0236	Residential	B / 66	64.6	67.9	69.8	5.2	Yes	61.2	-3.4	No
R0237	Residential	B / 66	51.8	55.0	57.5	5.7	No	48.7	-3.1	No
R0238	Residential	B / 66	50.7	53.9	55.7	5.0	No	47.2	-3.5	No
R0239	Residential	B / 66	50.3	53.6	55.2	4.9	No	46.8	-3.5	No
R0240	Residential	B / 66	49.1	52.4	53.6	4.5	No	45.6	-3.5	No
R0241	Residential	B / 66	66.2	69.5	70.9	4.7	Yes	63.1	-3.1	No
R0242	Residential	B / 66	63.8	67.1	68.7	4.9	Yes	60.2	-3.6	No
R0243	Residential	B / 66	68.3	71.6	72.8	4.5	Yes	64.7	-3.6	No
R0244	Residential	B / 66	65.9	69.2	71.0	5.1	Yes	62.6	-3.3	No
R0245	Residential	B / 66	68.9	72.2	73.3	4.4	Yes	65.2	-3.7	No
R0246	Residential	B / 66	65.2	68.5	70.7	5.5	Yes	62.0	-3.2	No
R0247	Residential	B / 66	52.4	55.7	58.7	6.3	No	49.4	-3.0	No
R0248	Residential	B / 66	58.8	62.0	64.5	5.7	No	54.7	-4.1	No
R0249	Residential	B / 66	61.2	64.5	66.3	5.1	Yes	57.5	-3.7	No
R0250	Residential	B / 66	62.2	65.5	67.5	5.3	Yes	58.6	-3.6	No
R0251	Residential	B / 66	48.4	51.6	53.0	4.6	No	45.3	-3.1	No
R0252	Residential	B / 66	54.0	57.3	60.3	6.3	No	51.2	-2.8	No
R0253	Residential	B / 66	48.9	52.2	54.2	5.3	No	45.9	-3.0	No
R0254	Residential	B / 66	54.1	57.3	60.6	6.5	No	51.4	-2.7	No
R0255	Residential	B / 66	51.1	54.3	57.2	6.1	No	48.1	-3.0	No
R0256	Residential	B / 66	66.5	69.8	71.6	5.1	Yes	63.7	-2.8	No
R0257	Residential	B / 66	45.8	49.0	49.1	3.3	No	44.6	-1.2	No



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Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0258	Residential	B / 66	49.8	53.1	55.4	5.6	No	46.9	-2.9	No
R0259	Residential	B / 66	51.6	54.9	57.3	5.7	No	48.8	-2.8	No
R0260	Residential	B / 66	57.6	60.9	62.6	5.0	No	54.6	-3.0	No
R0261	Residential	B / 66	54.7	57.9	60.2	5.5	No	52.3	-2.4	No
R0262	Residential	B / 66	48.9	52.1	53.7	4.8	No	46.3	-2.6	No
R0263	Residential	B / 66	52.2	55.5	57.8	5.6	No	49.5	-2.7	No
R0264	Residential	B / 66	67.9	71.2	70.7	2.8	Yes	65.0	-2.9	No
R0265	Residential	B / 66	56.0	59.3	60.9	4.9	No	53.9	-2.1	No
R0266	Residential	B / 66	50.7	53.9	55.2	4.5	No	47.7	-3.0	No
R0267	Residential	B / 66	50.0	53.2	54.5	4.5	No	47.1	-2.9	No
R0268	Residential	B / 66	49.1	52.3	53.3	4.2	No	46.3	-2.8	No
R0269	Residential	B / 66	68.6	71.9	70.8	2.2	Yes	65.5	-3.1	No
R0270	Residential	B / 66	60.0	63.3	63.4	3.4	No	57.1	-2.9	No
R0271	Residential	B / 66	48.6	51.7	51.8	3.2	No	45.3	-3.3	No
R0272	Residential	B / 66	49.1	52.1	51.8	2.7	No	45.2	-3.9	No
R0273	Residential	B / 66	45.9	49.0	48.7	2.8	No	44.6	-1.3	No
R0274	Residential	B / 66	48.9	51.9	51.6	2.7	No	44.9	-4.0	No
R0275	Residential	B / 66	50.3	53.2	53.4	3.1	No	45.8	-4.5	No
R0276	Residential	B / 66	49.4	52.3	52.7	3.3	No	45.1	-4.3	No
R0277	Residential	B / 66	51.7	54.5	55.1	3.4	No	46.6	-5.1	No
R0278	Residential	B / 66	49.5	52.4	53.8	4.3	No	53.8	4.3	No
R0279	Residential	B / 66	50.7	53.6	54.4	3.7	No	54.3	3.6	No
R0280	Residential	B / 66	49.0	51.8	54.2	5.2	No	53.7	4.7	No
R0281	Residential	B / 66	55.2	58.1	60.2	5.0	No	60.0	4.8	No
R0281-1	Residential	B / 66	58.2	61.1	62.1	3.9	No	62.0	3.8	No
R0282	Church	D / 66	57.4	60.0	57.0	-0.4	No	56.9	-0.5	No
R0283	Commercial	F /	58.4	61.2	59.6	1.2	No	59.8	1.4	No
R0284	Residential	B / 66	64.7	67.6	66.7	2.0	Yes	66.4	1.7	Yes
R0285	Residential	B / 66	63.4	66.3	64.3	0.9	No	64.2	0.8	No
R0286	Residential	B / 66	62.7	65.5	64.1	1.4	No	63.8	1.1	No
R0287	Residential	B / 66	69.2	71.4	69.5	0.3	Yes	69.6	0.4	Yes
R0288	Residential	B / 66	69.2	71.3	69.2	0.0	Yes	69.2	0.0	Yes
R0289	Residential	B / 66	68.3	70.5	68.6	0.3	Yes	68.6	0.3	Yes
R0290	Residential	B / 66	57.7	60.2	58.9	1.2	No	59.0	1.3	No
R0291	Apartments	B / 66	48.1	51.0	54.4	6.3	No	54.1	6.0	No
R0291-1	Apartments	B / 66	50.2	53.1	55.4	5.2	No	55.1	4.9	No
R0291-2	Apartments	B / 66	52.1	55.0	56.3	4.2	No	56.1	4.0	No

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Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0291-3	Apartments	B / 66	53.9	56.8	57.4	3.5	No	57.1	3.2	No
R0292	Apartments	B / 66	49.2	52.1	55.6	6.4	No	55.3	6.1	No
R0292-1	Apartments	B / 66	51.4	54.3	56.5	5.1	No	56.3	4.9	No
R0292-2	Apartments	B / 66	53.0	56.0	57.3	4.3	No	57.1	4.1	No
R0292-3	Apartments	B / 66	54.8	57.6	58.3	3.5	No	58.1	3.3	No
R0293	Apartments	B / 66	51.0	53.9	57.2	6.2	No	56.9	5.9	No
R0293-1	Apartments	B / 66	53.0	56.0	58.0	5.0	No	57.8	4.8	No
R0293-2	Apartments	B / 66	54.2	57.2	58.6	4.4	No	58.4	4.2	No
R0293-3	Apartments	B / 66	55.8	58.7	59.4	3.6	No	59.2	3.4	No
R0294	Apartments	B / 66	47.0	49.9	53.2	6.2	No	53.0	6.0	No
R0294-1	Apartments	B / 66	48.8	51.7	54.3	5.5	No	54.0	5.2	No
R0294-2	Apartments	B / 66	51.0	53.9	55.3	4.3	No	55.1	4.1	No
R0294-3	Apartments	B / 66	53.0	55.9	56.4	3.4	No	56.2	3.2	No
R0295	Apartments	B / 66	57.2	60.0	61.7	4.5	No	61.5	4.3	No
R0295-1	Apartments	B / 66	57.8	60.7	61.9	4.1	No	61.8	4.0	No
R0295-2	Apartments	B / 66	58.4	61.3	62.0	3.6	No	61.9	3.5	No
R0295-3	Apartments	B / 66	59.1	62.0	62.5	3.4	No	62.4	3.3	No
R0296	Apartments	B / 66	58.0	60.8	62.3	4.3	No	62.2	4.2	No
R0296-1	Apartments	B / 66	58.3	61.2	62.3	4.0	No	62.3	4.0	No
R0296-2	Apartments	B / 66	58.7	61.6	62.5	3.8	No	62.4	3.7	No
R0296-3	Apartments	B / 66	59.4	62.3	62.8	3.4	No	62.7	3.3	No
R0297	Apartments	B / 66	58.3	61.1	62.5	4.2	No	62.5	4.2	No
R0297-1	Apartments	B / 66	58.6	61.5	62.5	3.9	No	62.5	3.9	No
R0297-2	Apartments	B / 66	59.0	61.9	62.6	3.6	No	62.6	3.6	No
R0297-3	Apartments	B / 66	59.5	62.4	62.9	3.4	No	62.8	3.3	No
R0298	Apartments	B / 66	58.6	61.5	62.7	4.1	No	62.7	4.1	No
R0298-1	Apartments	B / 66	58.9	61.8	62.6	3.7	No	62.6	3.7	No
R0298-2	Apartments	B / 66	59.2	62.1	62.7	3.5	No	62.7	3.5	No
R0298-3	Apartments	B / 66	59.7	62.6	63.0	3.3	No	63.0	3.3	No
R0299	Apartments	B / 66	58.2	61.1	62.4	4.2	No	62.4	4.2	No
R0299-1	Apartments	B / 66	58.7	61.7	62.4	3.7	No	62.3	3.6	No
R0299-2	Apartments	B / 66	59.1	62.1	62.5	3.4	No	62.5	3.4	No
R0299-3	Apartments	B / 66	59.5	62.4	62.7	3.2	No	62.7	3.2	No
R0300	Apartments	B / 66	45.1	47.6	47.4	2.3	No	47.0	1.9	No
R0300-1	Apartments	B / 66	44.7	47.0	45.5	0.8	No	45.5	0.8	No
R0300-2	Apartments	B / 66	46.3	48.8	47.5	1.2	No	47.6	1.3	No
R0300-3	Apartments	B / 66	48.4	51.0	50.0	1.6	No	49.9	1.5	No

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Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0301	Apartments	B / 66	44.6	45.8	45.8	1.2	No	45.4	0.8	No
R0301-1	Apartments	B / 66	44.6	44.8	44.6	0.0	No	44.6	0.0	No
R0301-2	Apartments	B / 66	45.3	47.9	47.2	1.9	No	47.1	1.8	No
R0301-3	Apartments	B / 66	47.0	49.6	48.9	1.9	No	48.8	1.8	No
R0302	Apartments	B / 66	44.6	46.7	46.9	2.3	No	46.4	1.8	No
R0302-1	Apartments	B / 66	44.6	45.9	44.8	0.2	No	44.8	0.2	No
R0302-2	Apartments	B / 66	45.7	48.2	47.2	1.5	No	47.2	1.5	No
R0302-3	Apartments	B / 66	48.1	50.7	49.9	1.8	No	49.8	1.7	No
R0303	Apartments	B / 66	44.6	46.7	46.8	2.2	No	46.4	1.8	No
R0303-1	Apartments	B / 66	44.6	46.0	44.9	0.3	No	44.9	0.3	No
R0303-2	Apartments	B / 66	45.7	48.1	47.2	1.5	No	47.2	1.5	No
R0303-3	Apartments	B / 66	48.1	50.7	49.8	1.7	No	49.8	1.7	No
R0304	Apartments	B / 66	44.6	46.6	46.7	2.1	No	46.3	1.7	No
R0304-1	Apartments	B / 66	44.6	45.9	44.8	0.2	No	44.8	0.2	No
R0304-2	Apartments	B / 66	45.5	48.0	47.1	1.6	No	47.1	1.6	No
R0304-3	Apartments	B / 66	48.0	50.5	49.7	1.7	No	49.6	1.6	No
R0305	Apartments	B / 66	44.6	45.8	45.5	0.9	No	45.2	0.6	No
R0305-1	Apartments	B / 66	44.6	44.9	44.6	0.0	No	44.6	0.0	No
R0305-2	Apartments	B / 66	44.6	47.2	46.3	1.7	No	46.2	1.6	No
R0305-3	Apartments	B / 66	47.0	49.7	48.9	1.9	No	48.8	1.8	No
R0306	Apartments	B / 66	55.4	58.3	61.5	6.1	No	61.5	6.1	No
R0306-1	Apartments	B / 66	56.1	59.2	61.5	5.4	No	61.5	5.4	No
R0306-2	Apartments	B / 66	56.5	59.5	61.7	5.2	No	61.7	5.2	No
R0306-3	Apartments	B / 66	56.7	59.7	62.0	5.3	No	61.9	5.2	No
R0307	Apartments	B / 66	60.1	62.9	62.8	2.7	No	62.8	2.7	No
R0307-1	Apartments	B / 66	60.0	62.9	62.5	2.5	No	62.5	2.5	No
R0307-2	Apartments	B / 66	60.3	63.1	62.7	2.4	No	62.6	2.3	No
R0307-3	Apartments	B / 66	60.6	63.4	62.9	2.3	No	62.9	2.3	No
R0308	Apartments	B / 66	60.3	63.0	62.7	2.4	No	62.7	2.4	No
R0308-1	Apartments	B / 66	60.1	62.9	62.4	2.4	No	62.4	2.4	No
R0308-2	Apartments	B / 66	60.4	63.2	62.6	2.3	No	62.5	2.3	No
R0308-2	i i	B / 66	60.8	63.5	62.7	1.9	No	62.7	1.9	No
	Apartments									
R0309	Apartments	B / 66	60.3	63.0	63.0	2.7	No	63.0	2.7	No
R0309-1	Apartments	B / 66	60.2	62.9	62.8	2.6	No	62.7	2.5	No
R0309-2	Apartments	B / 66	60.4	63.1	62.9	2.5	No	62.8	2.4	No
R0309-3	Apartments	B / 66	60.8	63.5	63.1	2.3	No	63.1	2.3	No
R0310	Apartments	B / 66	61.5	63.9	62.9	1.4	No	62.9	1.4	No

						Alt 1			Alt 7A	
Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0310-1	Apartments	B / 66	61.3	63.7	62.7	1.4	No	62.7	1.4	No
R0310-2	Apartments	B / 66	61.5	63.9	62.9	1.4	No	62.9	1.4	No
R0310-3	Apartments	B / 66	61.9	64.3	63.1	1.2	No	63.2	1.3	No
R0311	Apartments	B / 66	55.5	58.2	58.5	3.0	No	58.5	3.0	No
R0311-1	Apartments	B / 66	57.1	59.9	59.1	2.0	No	59.1	2.0	No
R0311-2	Apartments	B / 66	57.8	60.5	59.7	1.9	No	59.7	1.9	No
R0311-3	Apartments	B / 66	58.4	61.0	60.1	1.7	No	60.1	1.7	No
R0312	Apartments	B / 66	54.2	56.9	55.8	1.6	No	55.8	1.6	No
R0312-1	Apartments	B / 66	56.2	58.8	57.3	1.1	No	57.4	1.2	No
R0312-2	Apartments	B / 66	57.1	59.7	58.3	1.2	No	58.4	1.3	No
R0312-3	Apartments	B / 66	57.7	60.3	58.9	1.2	No	59.0	1.3	No
R0313	Apartments	B / 66	54.0	56.6	55.2	1.2	No	55.2	1.2	No
R0313-1	Apartments	B / 66	55.7	58.4	56.7	1.0	No	56.8	1.1	No
R0313-2	Apartments	B / 66	56.8	59.4	57.8	1.0	No	58.0	1.2	No
R0313-3	Apartments	B / 66	57.4	60.0	58.5	1.1	No	58.6	1.2	No
R0314	Apartments	B / 66	53.6	56.3	54.7	1.1	No	54.7	1.1	No
R0314-1	Apartments	B / 66	55.2	57.8	56.1	0.9	No	56.3	1.1	No
R0314-2	Apartments	B / 66	56.4	59.1	57.4	1.0	No	57.5	1.1	No
R0314-3	Apartments	B / 66	57.2	59.7	58.1	0.9	No	58.2	1.0	No
R0315	Apartments	B / 66	45.9	48.3	47.7	1.8	No	47.5	1.6	No
R0315-1	Apartments	B / 66	46.6	48.9	47.7	1.1	No	47.8	1.2	No
R0315-2	Apartments	B / 66	48.0	50.3	49.6	1.6	No	49.6	1.6	No
R0315-3	Apartments	B / 66	50.3	52.7	51.7	1.4	No	51.7	1.4	No
R0316	Apartments	B / 66	44.6	46.9	45.5	0.9	No	45.5	0.9	No
R0316-1	Apartments	B / 66	44.6	45.6	44.6	0.0	No	44.6	0.0	No
R0316-2	Apartments	B / 66	46.0	48.5	47.6	1.6	No	47.6	1.6	No
R0316-3	Apartments	B / 66	48.8	51.3	49.9	1.1	No	49.9	1.1	No
R0317	Apartments	B / 66	45.4	47.8	47.1	1.7	No	46.9	1.5	No
R0317-1	Apartments	B / 66	45.7	47.9	46.7	1.0	No	46.9	1.2	No
R0317-2	Apartments	B / 66	47.0	49.4	48.8	1.8	No	48.8	1.8	No
R0317-3	Apartments	B / 66	49.6	52.1	51.1	1.5	No	51.1	1.5	No
R0318	Apartments	B / 66	45.2	47.6	47.0	1.8	No	46.8	1.6	No
R0318-1	Apartments	B / 66	45.6	47.8	46.5	0.9	No	46.6	1.0	No
R0318-2	Apartments	B / 66	46.9	49.2	48.6	1.7	No	48.6	1.7	No
R0318-3	Apartments	B / 66	49.3	51.8	50.8	1.5	No	50.7	1.4	No
R0319	Apartments	B / 66	45.0	47.4	46.8	1.8	No	46.6	1.6	No
R0319-1	Apartments	B / 66	45.5	47.8	46.3	0.8	No	46.5	1.0	No



Receiver ID Receiver Description Receiv							Alt 1			Alt 7A	
R0319-2 Apartments	Receiver ID	Receiver Description	Category /	_	Action	Action	Action	Action Causes	Action	Action	Action Causes
R0319-3 Apartments			(dBA)	L _{eq} (dBA)		L _{eq} (dBA)	From Existing		L _{eq} (dBA)	From Existing	
R0320 Apartments B / 66 44.6 47.4 48.4 3.8 No 48.0 3.4 No R0320-1 Apartments B / 66 46.0 49.0 49.2 3.2 No 48.9 2.9 No R0320-2 Apartments B / 66 47.4 50.4 50.1 2.7 No 49.7 2.3 No R0320-3 Apartments B / 66 47.8 50.8 50.7 2.9 No 50.1 2.3 No R0321 Pool C / 66 47.8 50.8 50.7 2.9 No 50.4 2.5 No R0322 Apartments B / 66 51.0 53.4 51.9 0.9 No 51.7 0.7 No R0322-1 Apartments B / 66 52.0 54.4 52.3 0.3 No 52.3 0.3 No R0322-3 Apartments B / 66 52.7 55.3 53.9 1.2 No	R0319-2	Apartments	B / 66	46.7	49.0	48.2	1.5	No	48.2	1.5	No
R0320-1 Apartments	R0319-3	Apartments	B / 66	49.2	51.6	50.5	1.3	No	50.5	1.3	No
R0320-2 Apartments B / 66 47.4 50.4 50.1 2.7 No 49.7 2.3 No R0320-3 Apartments B / 66 47.8 50.8 50.7 2.9 No 50.1 2.3 No R0321 Pool C / 66 47.9 50.4 50.8 2.9 No 50.4 2.5 No R0322 Apartments B / 66 51.0 53.4 51.9 0.9 No 51.7 0.7 No R0322-2 Apartments B / 66 52.0 54.4 52.3 0.3 No 52.3 0.3 No R0322-3 Apartments B / 66 54.1 56.6 54.7 0.6 No 54.8 0.7 No R0323-1 Apartments B / 66 54.3 56.8 55.0 0.7 No 55.1 0.8 No R0323-2 Apartments B / 66 55.4 58.9 57.3 0.9 No	R0320	Apartments	B / 66	44.6	47.4	48.4	3.8	No	48.0	3.4	No
R0320-3 Apartments B / 66 47.8 50.8 50.7 2.9 No 50.1 2.3 No R0321 Pool C / 66 47.9 50.4 50.8 2.9 No 50.4 2.5 No R0322 Apartments B / 66 51.0 53.4 51.9 0.9 No 51.7 0.7 No R0322-1 Apartments B / 66 52.0 54.4 52.3 0.3 No 52.3 0.3 No R0322-2 Apartments B / 66 55.1 55.6 54.7 0.6 No 53.8 0.7 No R0322-3 Apartments B / 66 55.7 55.3 53.9 1.2 No 53.8 1.1 No R0323-1 Apartments B / 66 54.3 56.8 55.0 0.7 No 55.1 0.8 No R0323-3 Apartments B / 66 55.5 58.1 56.4 0.9 No	R0320-1	Apartments	B / 66	46.0	49.0	49.2	3.2	No	48.9	2.9	No
R0321 Pool C / 66 47.9 50.4 50.8 2.9 No 50.4 2.5 No R0322 Apartments B / 66 51.0 53.4 51.9 0.9 No 51.7 0.7 No R0322-1 Apartments B / 66 52.0 54.4 52.3 0.3 No 52.3 0.3 No R0322-2 Apartments B / 66 53.1 55.6 53.7 0.6 No 53.8 0.7 No R0323-3 Apartments B / 66 52.7 55.3 53.9 1.2 No 53.8 1.1 No R0323-1 Apartments B / 66 54.3 56.8 55.0 0.7 No 55.1 0.8 No R0323-3 Apartments B / 66 55.5 58.1 56.4 0.9 No 55.6 1.1 No R0324-4 Apartments B / 66 52.4 54.9 53.6 1.2 No	R0320-2	Apartments	B / 66	47.4	50.4	50.1	2.7	No	49.7	2.3	No
R0322 Apartments B / 66 51.0 53.4 51.9 0.9 No 51.7 0.7 No R0322-1 Apartments B / 66 52.0 54.4 52.3 0.3 No 52.3 0.3 No R0322-2 Apartments B / 66 53.1 55.6 53.7 0.6 No 53.8 0.7 No R0322-3 Apartments B / 66 54.1 56.6 54.7 0.6 No 53.8 0.7 No R0323-3 Apartments B / 66 52.7 55.3 53.9 1.2 No 53.8 1.1 No R0323-2-1 Apartments B / 66 55.5 58.1 56.4 0.9 No 56.6 1.1 No R0323-3-3 Apartments B / 66 55.5 58.1 56.4 0.9 No 57.4 1.0 No R0324-1 Apartments B / 66 52.4 54.9 53.6 1.2	R0320-3	Apartments	B / 66	47.8	50.8	50.7	2.9	No	50.1	2.3	No
R0322-1 Apartments B / 66 52.0 54.4 52.3 0.3 No 52.3 0.3 No R0322-2 Apartments B / 66 53.1 55.6 53.7 0.6 No 53.8 0.7 No R0322-3 Apartments B / 66 54.1 56.6 54.7 0.6 No 54.8 0.7 No R0323-3 Apartments B / 66 52.7 55.3 53.9 1.2 No 53.8 1.1 No R0323-1 Apartments B / 66 54.3 56.8 55.0 0.7 No 55.1 0.8 No R0323-3 Apartments B / 66 55.5 58.1 56.4 0.9 No 56.6 1.1 No R0324-1 Apartments B / 66 52.4 54.9 53.6 1.2 No 53.4 1.0 No R0324-2 Apartments B / 66 55.1 57.7 56.1 1.0 <	R0321	Pool	C / 66	47.9	50.4	50.8	2.9	No	50.4	2.5	No
R0322-2 Apartments B / 66 53.1 55.6 53.7 0.6 No 53.8 0.7 No R0322-3 Apartments B / 66 54.1 56.6 54.7 0.6 No 54.8 0.7 No R0323-1 Apartments B / 66 52.7 55.3 53.9 1.2 No 53.8 1.1 No R0323-1 Apartments B / 66 54.3 56.8 55.0 0.7 No 55.1 0.8 No R0323-2 Apartments B / 66 55.5 58.1 56.4 0.9 No 56.6 1.1 No R0324-3 Apartments B / 66 52.4 54.9 53.6 1.2 No 53.4 1.0 No R0324-1 Apartments B / 66 55.1 57.7 56.1 1.0 No 56.2 1.1 No R0324-3 Apartments B / 66 55.1 57.7 56.1 1.0 <	R0322	Apartments	B / 66	51.0	53.4	51.9	0.9	No	51.7	0.7	No
R0322-3 Apartments B / 66 54.1 56.6 54.7 0.6 No 54.8 0.7 No R0323 Apartments B / 66 52.7 55.3 53.9 1.2 No 53.8 1.1 No R0323-1 Apartments B / 66 54.3 56.8 55.0 0.7 No 55.1 0.8 No R0323-2 Apartments B / 66 55.5 58.1 56.4 0.9 No 56.6 1.1 No R0323-3 Apartments B / 66 56.4 58.9 57.3 0.9 No 57.4 1.0 No R0324-1 Apartments B / 66 52.4 54.9 53.6 1.2 No 53.4 1.0 No R0324-2 Apartments B / 66 55.1 57.7 56.1 1.0 No 56.2 1.1 No R0324-3 Apartments B / 66 55.1 57.7 56.1 1.0 <td< td=""><td>R0322-1</td><td>Apartments</td><td>B / 66</td><td>52.0</td><td>54.4</td><td>52.3</td><td>0.3</td><td>No</td><td>52.3</td><td>0.3</td><td>No</td></td<>	R0322-1	Apartments	B / 66	52.0	54.4	52.3	0.3	No	52.3	0.3	No
R0323 Apartments B / 66 52.7 55.3 53.9 1.2 No 53.8 1.1 No R0323-1 Apartments B / 66 54.3 56.8 55.0 0.7 No 55.1 0.8 No R0323-2 Apartments B / 66 55.5 58.1 56.4 0.9 No 56.6 1.1 No R0324-3 Apartments B / 66 52.4 58.9 57.3 0.9 No 57.4 1.0 No R0324-1 Apartments B / 66 53.9 56.4 54.7 0.8 No 54.8 0.9 No R0324-2 Apartments B / 66 55.1 57.7 56.1 1.0 No 56.2 1.1 No R0324-3 Apartments B / 66 55.1 57.7 56.1 1.0 No 57.1 1.0 No R0325-1 Apartments B / 66 52.2 54.8 53.4 1.2 <td< td=""><td>R0322-2</td><td>Apartments</td><td>B / 66</td><td>53.1</td><td>55.6</td><td>53.7</td><td>0.6</td><td>No</td><td>53.8</td><td>0.7</td><td>No</td></td<>	R0322-2	Apartments	B / 66	53.1	55.6	53.7	0.6	No	53.8	0.7	No
R0323-1 Apartments B / 66 54.3 56.8 55.0 0.7 No 55.1 0.8 No R0323-2 Apartments B / 66 55.5 58.1 56.4 0.9 No 56.6 1.1 No R0323-3 Apartments B / 66 56.4 58.9 57.3 0.9 No 57.4 1.0 No R0324 Apartments B / 66 52.4 54.9 53.6 1.2 No 53.4 1.0 No R0324-1 Apartments B / 66 53.9 56.4 54.7 0.8 No 54.8 0.9 No R0324-2 Apartments B / 66 55.1 57.7 56.1 1.0 No 56.2 1.1 No R0325-3 Apartments B / 66 55.1 58.6 57.0 0.9 No 57.1 1.0 No R0325-3 Apartments B / 66 55.0 57.5 55.9 0.9 <td< td=""><td>R0322-3</td><td>Apartments</td><td>B / 66</td><td>54.1</td><td>56.6</td><td>54.7</td><td>0.6</td><td>No</td><td>54.8</td><td>0.7</td><td>No</td></td<>	R0322-3	Apartments	B / 66	54.1	56.6	54.7	0.6	No	54.8	0.7	No
R0323-2 Apartments B / 66 55.5 58.1 56.4 0.9 No 56.6 1.1 No R0323-3 Apartments B / 66 56.4 58.9 57.3 0.9 No 57.4 1.0 No R0324 Apartments B / 66 52.4 54.9 53.6 1.2 No 53.4 1.0 No R0324-1 Apartments B / 66 53.9 56.4 54.7 0.8 No 54.8 0.9 No R0324-2 Apartments B / 66 55.1 57.7 56.1 1.0 No 56.2 1.1 No R0324-3 Apartments B / 66 56.1 58.6 57.0 0.9 No 57.1 1.0 No R0325-1 Apartments B / 66 53.8 56.3 54.5 0.7 No 54.6 0.8 No R0325-2 Apartments B / 66 55.0 57.5 55.9 0.9 <td< td=""><td>R0323</td><td>Apartments</td><td>B / 66</td><td>52.7</td><td>55.3</td><td>53.9</td><td>1.2</td><td>No</td><td>53.8</td><td>1.1</td><td>No</td></td<>	R0323	Apartments	B / 66	52.7	55.3	53.9	1.2	No	53.8	1.1	No
R0323-2 Apartments B / 66 55.5 58.1 56.4 0.9 No 56.6 1.1 No R0323-3 Apartments B / 66 56.4 58.9 57.3 0.9 No 57.4 1.0 No R0324 Apartments B / 66 52.4 54.9 53.6 1.2 No 53.4 1.0 No R0324-1 Apartments B / 66 53.9 56.4 54.7 0.8 No 54.8 0.9 No R0324-2 Apartments B / 66 55.1 57.7 56.1 1.0 No 56.2 1.1 No R0324-3 Apartments B / 66 56.1 58.6 57.0 0.9 No 57.1 1.0 No R0325-1 Apartments B / 66 53.8 56.3 54.5 0.7 No 54.6 0.8 No R0325-2 Apartments B / 66 55.0 57.5 55.9 0.9 <td< td=""><td>R0323-1</td><td>Apartments</td><td>B / 66</td><td>54.3</td><td>56.8</td><td>55.0</td><td>0.7</td><td>No</td><td>55.1</td><td>0.8</td><td>No</td></td<>	R0323-1	Apartments	B / 66	54.3	56.8	55.0	0.7	No	55.1	0.8	No
R0323-3 Apartments B / 66 56.4 58.9 57.3 0.9 No 57.4 1.0 No R0324 Apartments B / 66 52.4 54.9 53.6 1.2 No 53.4 1.0 No R0324-1 Apartments B / 66 53.9 56.4 54.7 0.8 No 54.8 0.9 No R0324-2 Apartments B / 66 55.1 57.7 56.1 1.0 No 56.2 1.1 No R0324-3 Apartments B / 66 56.1 58.6 57.0 0.9 No 57.1 1.0 No R0325-1 Apartments B / 66 52.2 54.8 53.4 1.2 No 53.3 1.1 No R0325-2 Apartments B / 66 55.0 57.5 55.9 0.9 No 56.0 1.0 No R0325-3 Apartments B / 66 55.9 58.4 56.9 1.0 <td< td=""><td>R0323-2</td><td>· ·</td><td></td><td></td><td></td><td></td><td>0.9</td><td>No</td><td></td><td></td><td>No</td></td<>	R0323-2	· ·					0.9	No			No
R0324 Apartments B / 66 52.4 54.9 53.6 1.2 No 53.4 1.0 No R0324-1 Apartments B / 66 53.9 56.4 54.7 0.8 No 54.8 0.9 No R0324-2 Apartments B / 66 55.1 57.7 56.1 1.0 No 56.2 1.1 No R0324-3 Apartments B / 66 56.1 58.6 57.0 0.9 No 57.1 1.0 No R0325-3 Apartments B / 66 55.8 56.3 54.5 0.7 No 54.6 0.8 No R0325-1 Apartments B / 66 55.0 57.5 55.9 0.7 No 54.6 0.8 No R0325-2 Apartments B / 66 55.0 57.5 55.9 0.9 No 56.0 1.0 No R0325-3 Apartments B / 66 55.9 58.4 56.9 1.0 <td< td=""><td>R0323-3</td><td>·</td><td>,</td><td></td><td>58.9</td><td></td><td>0.9</td><td>No</td><td>57.4</td><td>1.0</td><td>No</td></td<>	R0323-3	·	,		58.9		0.9	No	57.4	1.0	No
R0324-1 Apartments B / 66 53.9 56.4 54.7 0.8 No 54.8 0.9 No R0324-2 Apartments B / 66 55.1 57.7 56.1 1.0 No 56.2 1.1 No R0324-3 Apartments B / 66 55.1 58.6 57.0 0.9 No 57.1 1.0 No R0325-2 Apartments B / 66 52.2 54.8 53.4 1.2 No 53.3 1.1 No R0325-1 Apartments B / 66 55.8 56.3 54.5 0.7 No 54.6 0.8 No R0325-2 Apartments B / 66 55.0 57.5 55.9 0.9 No 56.0 1.0 No R0325-3 Apartments B / 66 55.9 58.4 56.9 1.0 No 56.9 1.0 No R0325-3 Apartments B / 66 55.9 58.4 56.9 1.0 <		·									No
R0324-2 Apartments B / 66 55.1 57.7 56.1 1.0 No 56.2 1.1 No R0324-3 Apartments B / 66 56.1 58.6 57.0 0.9 No 57.1 1.0 No R0325 Apartments B / 66 52.2 54.8 53.4 1.2 No 53.3 1.1 No R0325-1 Apartments B / 66 53.8 56.3 54.5 0.7 No 54.6 0.8 No R0325-2 Apartments B / 66 55.0 57.5 55.9 0.9 No 56.0 1.0 No R0325-3 Apartments B / 66 55.9 58.4 56.9 1.0 No 56.9 1.0 No R0326 Playground C / 66 53.4 56.1 54.5 1.1 No 54.6 1.2 No R0327 Church D / 66 62.6 64.7 64.8 2.2 No		· ·	,								_
R0324-3 Apartments B / 66 56.1 58.6 57.0 0.9 No 57.1 1.0 No R0325 Apartments B / 66 52.2 54.8 53.4 1.2 No 53.3 1.1 No R0325-1 Apartments B / 66 53.8 56.3 54.5 0.7 No 54.6 0.8 No R0325-2 Apartments B / 66 55.0 57.5 55.9 0.9 No 56.0 1.0 No R0325-3 Apartments B / 66 55.9 58.4 56.9 1.0 No 56.0 1.0 No R0326 Playground C / 66 53.4 56.1 54.5 1.1 No 54.6 1.2 No R0327 Church D / 66 62.6 64.7 64.8 2.2 No 64.8 2.2 No R0328 Residential B / 66 65.0 68.6 68.4 3.4 Yes			·			56.1		No		1.1	No
R0325 Apartments B / 66 52.2 54.8 53.4 1.2 No 53.3 1.1 No R0325-1 Apartments B / 66 53.8 56.3 54.5 0.7 No 54.6 0.8 No R0325-2 Apartments B / 66 55.0 57.5 55.9 0.9 No 56.0 1.0 No R0325-3 Apartments B / 66 55.9 58.4 56.9 1.0 No 56.9 1.0 No R0326 Playground C / 66 53.4 56.1 54.5 1.1 No 54.6 1.2 No R0327 Church D / 66 62.6 64.7 64.8 2.2 No 64.8 2.2 No R0328 Residential B / 66 65.0 68.6 68.4 3.4 Yes 68.3 3.3 Yes R0329 Restaurant E / 71 72.1 75.9 73.9 1.8 Yes		· ·									
R0325-1 Apartments B / 66 53.8 56.3 54.5 0.7 No 54.6 0.8 No R0325-2 Apartments B / 66 55.0 57.5 55.9 0.9 No 56.0 1.0 No R0325-3 Apartments B / 66 55.9 58.4 56.9 1.0 No 56.9 1.0 No R0326 Playground C / 66 53.4 56.1 54.5 1.1 No 54.6 1.2 No R0327 Church D / 66 62.6 64.7 64.8 2.2 No 64.8 2.2 No R0328 Residential B / 66 65.0 68.6 68.4 3.4 Yes 68.3 3.3 Yes R0329 Restaurant E / 71 72.1 75.9 73.9 1.8 Yes 73.8 1.7 Yes R0330 Residential B / 66 70.2 73.9 71.9 1.7 Yes </td <td></td> <td>·</td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td>		·	,								_
R0325-2 Apartments B / 66 55.0 57.5 55.9 0.9 No 56.0 1.0 No R0325-3 Apartments B / 66 55.9 58.4 56.9 1.0 No 56.9 1.0 No R0326 Playground C / 66 53.4 56.1 54.5 1.1 No 54.6 1.2 No R0327 Church D / 66 62.6 64.7 64.8 2.2 No 64.8 2.2 No R0328 Residential B / 66 65.0 68.6 68.4 3.4 Yes 68.3 3.3 Yes R0329 Restaurant E / 71 72.1 75.9 73.9 1.8 Yes 73.8 1.7 Yes R0330 Residential B / 66 70.2 73.9 71.9 1.7 Yes 71.8 1.6 Yes R0331 Residential B / 66 59.8 62.3 59.7 -0.1 No<		·	·					_			
R0325-3 Apartments B / 66 55.9 58.4 56.9 1.0 No 56.9 1.0 No R0326 Playground C / 66 53.4 56.1 54.5 1.1 No 54.6 1.2 No R0327 Church D / 66 62.6 64.7 64.8 2.2 No 64.8 2.2 No R0328 Residential B / 66 65.0 68.6 68.4 3.4 Yes 68.3 3.3 Yes R0329 Restaurant E / 71 72.1 75.9 73.9 1.8 Yes 73.8 1.7 Yes R0330 Residential B / 66 70.2 73.9 71.9 1.7 Yes 71.8 1.6 Yes R0331 Residential B / 66 74.3 76.7 74.0 -0.3 Yes 74.1 -0.2 Yes R0332 Residential B / 66 59.8 62.3 59.7 -0.1											
R0326 Playground C / 66 53.4 56.1 54.5 1.1 No 54.6 1.2 No R0327 Church D / 66 62.6 64.7 64.8 2.2 No 64.8 2.2 No R0328 Residential B / 66 65.0 68.6 68.4 3.4 Yes 68.3 3.3 Yes R0329 Restaurant E / 71 72.1 75.9 73.9 1.8 Yes 73.8 1.7 Yes R0330 Residential B / 66 70.2 73.9 71.9 1.7 Yes 71.8 1.6 Yes R0331 Residential B / 66 74.3 76.7 74.0 -0.3 Yes 74.1 -0.2 Yes R0332 Residential B / 66 59.8 62.3 59.7 -0.1 No 59.4 -0.4 No R0333 Residential B / 66 70.2 72.5 70.7 0.5		· ·									
R0327 Church D / 66 62.6 64.7 64.8 2.2 No 64.8 2.2 No R0328 Residential B / 66 65.0 68.6 68.4 3.4 Yes 68.3 3.3 Yes R0329 Restaurant E / 71 72.1 75.9 73.9 1.8 Yes 73.8 1.7 Yes R0330 Residential B / 66 70.2 73.9 71.9 1.7 Yes 71.8 1.6 Yes R0331 Residential B / 66 74.3 76.7 74.0 -0.3 Yes 74.1 -0.2 Yes R0332 Residential B / 66 59.8 62.3 59.7 -0.1 No 59.4 -0.4 No R0333 Residential B / 66 70.2 72.5 70.7 0.5 Yes 70.8 0.6 Yes R0334 Residential B / 66 72.4 74.6 72.2 -0.2		'									
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R0329 Restaurant E / 71 72.1 75.9 73.9 1.8 Yes 73.8 1.7 Yes R0330 Residential B / 66 70.2 73.9 71.9 1.7 Yes 71.8 1.6 Yes R0331 Residential B / 66 74.3 76.7 74.0 -0.3 Yes 74.1 -0.2 Yes R0332 Residential B / 66 59.8 62.3 59.7 -0.1 No 59.4 -0.4 No R0333 Residential B / 66 70.2 72.5 70.7 0.5 Yes 70.8 0.6 Yes R0334 Residential B / 66 72.4 74.6 72.2 -0.2 Yes 72.4 0.0 Yes R0335 Residential B / 66 60.5 62.7 60.1 -0.4 No 60.3 -0.2 No R0336 Residential B / 66 66.7 68.9 64.8 -1.9			İ								
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R0337 Residential B / 66 64.2 66.3 64.4 0.2 No 64.4 0.2 No R0338 Residential B / 66 60.9 63.0 62.8 1.9 No 62.5 1.6 No											
R0338 Residential B / 66 60.9 63.0 62.8 1.9 No 62.5 1.6 No											
	R0339-1	Residential	B / 66	52.6	55.4	54.1	1.5	No	55.3	2.7	No

						Alt 1			Alt 7A	
Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0340	Residential	B / 66	54.5	57.3	59.5	5.0	No	54.3	-0.2	No
R0341	Residential	B / 66	46.7	49.3	NA	NA	NA	57.7	11.0	No
R0342	Residential	B / 66	44.6	44.6	NA	NA	NA	59.8	15.2	Yes
R0343	Residential	B / 66	44.6	44.6	NA	NA	NA	60.8	16.2	Yes
R0344	Residential	B / 66	44.6	44.6	NA	NA	NA	60.9	16.3	Yes
R0345	Residential	B / 66	44.6	44.6	NA	NA	NA	61.2	16.6	Yes
R0346	Residential	B / 66	44.6	44.6	NA	NA	NA	61.6	17.0	Yes
R0347	Residential	B / 66	44.6	44.6	NA	NA	NA	61.5	16.9	Yes
R0348	Residential	B / 66	44.6	44.6	NA	NA	NA	61.9	17.3	Yes
R0349	Residential	B / 66	44.6	45.3	NA	NA	NA	61.4	16.8	Yes
R0350	Residential	B / 66	47.4	50.0	NA	NA	NA	60.5	13.1	No
R0351	Residential	B / 66	44.6	44.6	NA	NA	NA	46.9	2.3	No
R0352	Residential	B / 66	44.6	45.7	NA	NA	NA	47.4	2.8	No
R0353	Residential	B / 66	46.3	48.9	NA	NA	NA	50.3	4.0	No
R0354	Residential	B / 66	50.1	52.7	NA	NA	NA	52.7	2.6	No
R0355	Residential	B / 66	53.9	56.5	NA	NA	NA	54.9	1.0	No
R0356	Residential	B / 66	44.6	44.6	NA	NA	NA	47.5	2.9	No
R0357	Residential	B / 66	44.6	45.0	NA	NA	NA	49.3	4.7	No
R0358	Residential	B / 66	55.0	57.6	NA	NA	NA	55.9	0.9	No
R0359	Residential	B / 66	57.4	60.0	NA	NA	NA	56.2	-1.2	No
R0360	Residential	B / 66	55.2	57.7	NA	NA	NA	56.1	0.9	No
R0361	Residential	B / 66	56.9	59.5	NA	NA	NA	55.8	-1.1	No
R0362	Residential	B / 66	55.6	58.2	NA	NA	NA	54.7	-0.9	No
R0363	Residential	B / 66	58.3	60.9	NA	NA	NA	54.5	-3.8	No
R0364	Residential	B / 66	44.6	46.3	NA	NA	NA	49.1	4.5	No
R0365	Residential	B / 66	44.6	45.5	NA	NA	NA	47.8	3.2	No
R0366	Residential	B / 66	44.6	46.0	NA	NA	NA	47.5	2.9	No
R0367	Residential	B / 66	45.9	48.7	NA	NA	NA	58.8	12.9	No
R0368	Residential	B / 66	44.6	46.0	NA	NA	NA	58.0	13.4	No
R0369	Residential	B / 66	44.6	46.8	NA	NA	NA	57.5	12.9	No
R0370	Residential	B / 66	44.6	48.4	NA	NA	NA	57.2	12.6	No
R0371	Residential	B / 66	47.1	51.9	NA	NA	NA	57.6	10.5	No
R0372-1	Residential	B / 66	44.6	44.6	NA	NA	NA	64.4	19.8	Yes
R0373-1	Residential	B / 66	44.6	46.1	NA	NA	NA	67.1	22.5	Yes
R0374-1	Residential	B / 66	44.8	48.6	NA	NA	NA	69.5	24.7	Yes
R0375-1	Residential	B / 66	45.1	49.0	NA	NA	NA	69.6	24.5	Yes
R0376-1	Residential	B / 66	45.3	49.2	NA	NA	NA	69.5	24.2	Yes



						Alt 1			Alt 7A	
Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0377-1	Residential	B / 66	45.6	49.7	NA	NA	NA	69.5	23.9	Yes
R0378-1	Residential	B / 66	46.2	50.5	NA	NA	NA	69.8	23.6	Yes
R0379-1	Residential	B / 66	46.6	51.0	NA	NA	NA	69.7	23.1	Yes
R0380-1	Residential	B / 66	47.0	51.5	NA	NA	NA	69.4	22.4	Yes
R0381-1	Residential	B / 66	47.4	51.9	NA	NA	NA	69.3	21.9	Yes
R0382-1	Residential	B / 66	47.7	52.4	NA	NA	NA	68.9	21.2	Yes
R0383-1	Residential	B / 66	48.7	53.5	NA	NA	NA	69.0	20.3	Yes
R0384-1	Residential	B / 66	52.7	57.8	NA	NA	NA	68.2	15.5	Yes
R0385-1	Residential	B / 66	49.5	54.5	NA	NA	NA	68.7	19.2	Yes
R0386-1	Residential	B / 66	50.8	55.8	NA	NA	NA	68.6	17.8	Yes
R0387-1	Residential	B / 66	55.9	61.2	NA	NA	NA	65.4	9.5	No
R0388-1	Residential	B / 66	56.6	61.9	NA	NA	NA	63.5	6.9	No
R0389	Residential	B / 66	44.6	44.6	NA	NA	NA	51.7	7.1	No
R0390	Residential	B / 66	44.6	44.6	NA	NA	NA	52.6	8.0	No
R0391	Residential	B / 66	44.6	44.6	NA	NA	NA	52.7	8.1	No
R0392	Residential	B / 66	44.6	44.6	NA	NA	NA	49.9	5.3	No
R0393-1	Residential	B / 66	44.6	44.7	NA	NA	NA	65.8	21.2	Yes
R0394-1	Residential	B / 66	44.6	44.6	NA	NA	NA	60.4	15.8	Yes
R0395	Residential	B / 66	44.6	44.8	NA	NA	NA	58.6	14.0	No
R0396	Residential	B / 66	44.6	45.0	NA	NA	NA	58.5	13.9	No
R0397	Residential	B / 66	44.6	45.3	NA	NA	NA	58.3	13.7	No
R0398	Residential	B / 66	44.6	45.9	NA	NA	NA	57.9	13.3	No
R0399	Residential	B / 66	44.6	46.0	NA	NA	NA	57.9	13.3	No
R0400	Residential	B / 66	44.6	46.1	NA	NA	NA	57.8	13.2	No
R0401	Residential	B / 66	44.6	46.3	NA	NA	NA	57.6	13.0	No
R0402	Residential	B / 66	44.6	47.1	NA	NA	NA	57.7	13.1	No
R0403	Residential	B / 66	44.6	47.1	NA	NA	NA	57.5	12.9	No
R0404	Residential	B / 66	44.6	47.4	NA	NA	NA	57.5	12.9	No
R0405	Residential	B / 66	44.6	47.8	NA	NA	NA	57.5	12.9	No
R0406	Residential	B / 66	44.6	48.9	NA	NA	NA	57.2	12.6	No
R0407	Residential	B / 66	44.6	49.1	NA	NA	NA	57.2	12.6	No
R0408	Residential	B / 66	44.9	49.5	NA NA	NA NA	NA NA	57.2	12.4	No
R0409	Residential	B / 66	45.5	50.1	NA	NA	NA	57.4	11.9	No
R0410	Residential	B / 66	46.2	50.8	NA	NA	NA	57.4	11.2	No
R0410	Residential	B / 66	48.7	53.3	NA NA	NA NA	NA NA	57.6	8.9	No
R0411	Residential	B / 66	51.3	55.4	NA NA	NA NA	NA NA	57.7	6.4	No
R0413	Residential	B / 66	54.0	57.7	NA NA	NA NA	NA NA	57.7	3.7	No

Receiver Description							Alt 1			Alt 7A	
R0414	Receiver ID	Receiver Description	Category /	_	Action	Action	Action	Action Causes	Action	Action	Proposed Action Causes Impact?
R0415 Residential B / 66			(dBA)	L _{eq} (dBA)		L _{eq} (dBA)	From Existing		L _{eq} (dBA)	From Existing	(Yes or No)
R0416	R0414	Residential	B / 66	46.2	49.4	NA	NA	NA	52.8	6.6	No
R0417 Residential B / 66 48.4 51.6 NA NA NA 51.9 3.5 No R0418 Residential B / 66 49.7 52.9 NA NA NA 52.0 2.3 No R0419 Residential B / 66 45.3 55.4 NA NA NA 53.4 1.1 No R0420 Residential B / 66 44.6 44.6 NA NA NA 70.9 26.3 Yee R0421 Residential B / 66 44.6 45.0 NA NA NA 70.9 26.3 Yee R0422 Residential B / 66 44.6 45.0 NA NA NA 70.7 26.1 Yee R0422 Residential B / 66 44.6 45.7 NA NA NA 70.1 25.5 Yee R0425 Residential B / 66 44.6 45.9 NA NA NA 7	R0415	Residential	B / 66	46.6	49.8	NA	NA	NA	52.3	5.7	No
R0418 Residential B / 66 49.7 52.9 NA NA NA 52.0 2.3 No R0419 Residential B / 66 52.3 55.4 NA NA NA 53.4 1.1 No R0420 Residential B / 66 44.6 44.6 NA NA NA 71.1 26.5 Yee R0421 Residential B / 66 44.6 44.6 NA NA NA 70.7 26.1 Yee R0422 Residential B / 66 44.6 45.0 NA NA NA 70.7 26.1 Yee R0423 Residential B / 66 44.6 45.7 NA NA NA 70.1 25.5 Yee R0424 Residential B / 66 44.6 45.7 NA NA NA 70.1 25.5 Yee R0426 Residential B / 66 44.6 45.0 NA NA NA <td< td=""><td>R0416</td><td>Residential</td><td>B / 66</td><td>47.6</td><td>50.7</td><td>NA</td><td>NA</td><td>NA</td><td>52.1</td><td>4.5</td><td>No</td></td<>	R0416	Residential	B / 66	47.6	50.7	NA	NA	NA	52.1	4.5	No
R0419 Residential B / 66 52.3 55.4 NA NA 53.4 1.1 No R0420 Residential B / 66 44.6 44.6 NA NA NA 71.1 26.5 Yet R0421 Residential B / 66 44.6 44.6 NA NA NA 70.7 26.1 Yet R0422 Residential B / 66 44.6 45.0 NA NA NA 70.7 26.1 Yet R0423 Residential B / 66 44.6 45.7 NA NA NA 70.1 25.5 Yet R0424 Residential B / 66 44.6 45.7 NA NA NA 70.1 25.5 Yet R0426 Residential B / 66 44.6 45.9 NA NA NA 72.1 27.5 Yet R0427 Residential B / 66 44.6 45.0 NA NA NA 71.9	R0417	Residential	B / 66	48.4	51.6	NA	NA	NA	51.9	3.5	No
R0420 Residential B / 66 44.6 44.6 NA NA NA 71.1 26.5 Yet R0421 Residential B / 66 44.6 44.6 NA NA NA 70.9 26.3 Yet R0422 Residential B / 66 44.6 45.0 NA NA NA 70.7 26.1 Yet R0423 Residential B / 66 44.6 45.7 NA NA NA 70.5 25.9 Yet R0424 Residential B / 66 44.6 45.7 NA NA NA 70.2 25.6 Yet R0426 Residential B / 66 44.6 45.9 NA NA NA 72.1 27.5 Yet R0427 Residential B / 66 44.6 45.0 NA NA NA 71.9 27.3 Yet R0428 Residential B / 66 44.6 44.6 NA NA NA	R0418	Residential	B / 66	49.7	52.9	NA	NA	NA	52.0	2.3	No
R0421 Residential B / 66 44.6 44.6 NA NA NA 70.9 26.3 Yee R0422 Residential B / 66 44.6 45.0 NA NA NA 70.7 26.1 Yee R0423 Residential B / 66 44.6 45.4 NA NA NA 70.5 25.9 Yee R0424 Residential B / 66 44.6 45.7 NA NA NA 70.1 25.5 Yee R0425 Residential B / 66 44.6 45.9 NA NA NA 70.2 25.6 Yee R0426 Residential B / 66 44.6 45.0 NA NA NA 72.1 27.5 Yee R0427 Residential B / 66 44.6 45.0 NA NA NA 72.1 27.5 Yee R0428 Residential B / 66 44.6 44.6 NA NA NA	R0419	Residential	B / 66	52.3	55.4	NA	NA	NA	53.4	1.1	No
R0422 Residential B / 66 44.6 45.0 NA NA NA 70.7 26.1 Yee R0423 Residential B / 66 44.6 45.4 NA NA NA 70.5 25.9 Yee R0424 Residential B / 66 44.6 45.7 NA NA NA 70.1 25.5 Yee R0426 Residential B / 66 44.6 45.9 NA NA NA 72.1 27.5 Yee R0426 Residential B / 66 44.6 45.9 NA NA NA 72.1 27.5 Yee R0427 Residential B / 66 44.6 45.0 NA NA NA 71.8 27.2 Yee R0428 Residential B / 66 44.6 44.6 NA NA NA 71.8 27.2 Yee R0430 Residential B / 66 44.6 44.6 NA NA NA	R0420	Residential	B / 66	44.6	44.6	NA	NA	NA	71.1	26.5	Yes
R0423 Residential B / 66 44.6 45.4 NA NA NA 70.5 25.9 Yes R0424 Residential B / 66 44.6 45.7 NA NA NA 70.1 25.5 Yes R0425 Residential B / 66 44.6 46.3 NA NA NA 70.2 25.6 Yes R0426 Residential B / 66 44.6 45.9 NA NA NA 72.1 27.5 Yes R0427 Residential B / 66 44.6 45.9 NA NA NA 72.1 27.5 Yes R0428 Residential B / 66 44.6 44.6 NA NA NA 71.8 27.2 Yes R0429 Residential B / 66 44.6 44.6 NA NA NA 71.5 26.9 Yes R0430 Residential B / 66 44.6 44.6 NA NA NA	R0421	Residential	B / 66	44.6	44.6	NA	NA	NA	70.9	26.3	Yes
R0424 Residential B / 66 44.6 45.7 NA NA NA 70.1 25.5 Yee R0425 Residential B / 66 44.6 46.3 NA NA NA 70.2 25.6 Yee R0426 Residential B / 66 44.6 45.9 NA NA NA 72.1 27.5 Yee R0427 Residential B / 66 44.6 45.0 NA NA NA 72.1 27.5 Yee R0428 Residential B / 66 44.6 44.6 NA NA NA 71.8 27.2 Yee R0429 Residential B / 66 44.6 44.6 NA NA NA 71.9 27.3 Yee R0431 Residential B / 66 44.6 44.6 NA NA NA 71.4 26.8 Yee R0432 Residential B / 66 45.4 49.5 NA NA NA	R0422	Residential	B / 66	44.6	45.0	NA	NA	NA	70.7	26.1	Yes
R0425 Residential B / 66 44.6 46.3 NA NA NA 70.2 25.6 Yes R0426 Residential B / 66 44.6 45.9 NA NA NA 72.1 27.5 Yes R0427 Residential B / 66 44.6 45.0 NA NA NA 72.1 27.5 Yes R0428 Residential B / 66 44.6 44.6 NA NA NA 71.8 27.2 Yes R0429 Residential B / 66 44.6 44.6 NA NA NA 71.9 27.3 Yes R0430 Residential B / 66 44.6 44.6 NA NA NA 71.4 26.8 Yes R0431 Residential B / 66 44.6 44.6 NA NA NA 71.4 26.8 Yes R0432 Residential B / 66 44.6 47.2 NA NA NA	R0423	Residential	B / 66	44.6	45.4	NA	NA	NA	70.5	25.9	Yes
R0426 Residential B / 66 44.6 45.9 NA NA NA 72.1 27.5 Yes R0427 Residential B / 66 44.6 45.0 NA NA NA 72.1 27.5 Yes R0428 Residential B / 66 44.6 44.6 NA NA NA 71.8 27.2 Yes R0429 Residential B / 66 44.6 44.6 NA NA NA 71.9 27.3 Yes R0430 Residential B / 66 44.6 44.6 NA NA NA 71.4 26.8 Yes R0431 Residential B / 66 44.6 44.6 NA NA NA 71.4 26.8 Yes R0432 Residential B / 66 45.4 49.5 NA NA NA NA 58.4 13.8 No R0433 Residential B / 66 44.6 47.2 NA NA	R0424	Residential	B / 66	44.6	45.7	NA	NA	NA	70.1	25.5	Yes
R0427 Residential B / 66 44.6 45.0 NA NA NA 72.1 27.5 Yer R0428 Residential B / 66 44.6 NA NA NA NA 71.8 27.2 Yer R0429 Residential B / 66 44.6 NA NA NA NA 71.9 27.3 Yer R0430 Residential B / 66 44.6 A4.6 NA NA NA 71.4 26.8 Yer R0431 Residential B / 66 44.6 44.6 NA NA NA 71.4 26.8 Yer R0432 Residential B / 66 45.4 49.5 NA NA NA 58.4 13.8 No R0433 Residential B / 66 44.6 47.2 NA NA NA 70.2 25.6 Yer R0434 Residential B / 66 44.6 47.2 NA NA NA	R0425	Residential	B / 66	44.6	46.3	NA	NA	NA	70.2	25.6	Yes
R0427 Residential B / 66 44.6 45.0 NA NA NA 72.1 27.5 Yes R0428 Residential B / 66 44.6 44.6 NA NA NA 71.8 27.2 Yes R0429 Residential B / 66 44.6 HA.6 NA NA NA 71.9 27.3 Yes R0430 Residential B / 66 44.6 HA.6 NA NA NA 71.5 26.9 Yes R0431 Residential B / 66 44.6 44.6 NA NA NA 71.4 26.8 Yes R0432 Residential B / 66 45.4 49.5 NA NA NA 58.4 13.8 No R0433 Residential B / 66 44.6 47.2 NA NA NA 70.2 25.6 Yes R0434 Residential B / 66 44.6 47.2 NA NA NA	R0426	Residential	B / 66	44.6	45.9	NA	NA	NA	72.1	27.5	Yes
R0428 Residential B / 66 44.6 44.6 NA NA NA 71.8 27.2 Yes R0429 Residential B / 66 44.6 44.6 NA NA NA 71.9 27.3 Yes R0430 Residential B / 66 44.6 44.6 NA NA NA 71.4 26.8 Yes R0431 Residential B / 66 44.6 AA NA NA NA 71.4 26.8 Yes R0432 Residential B / 66 45.4 49.5 NA NA NA 61.0 15.6 Yes R0433 Residential B / 66 44.6 47.2 NA NA NA 58.4 13.8 No R0434 Residential B / 66 44.6 47.2 NA NA NA 69.7 25.1 Yes R0435 Residential B / 66 45.3 48.6 NA NA NA <t< td=""><td>R0427</td><td>Residential</td><td></td><td>44.6</td><td>45.0</td><td>NA</td><td>NA</td><td></td><td>72.1</td><td>27.5</td><td>Yes</td></t<>	R0427	Residential		44.6	45.0	NA	NA		72.1	27.5	Yes
R0429 Residential B / 66 44.6 44.6 NA NA 71.9 27.3 Yet R0430 Residential B / 66 44.6 44.6 NA NA NA 71.5 26.9 Yet R0431 Residential B / 66 44.6 44.6 NA NA NA 71.4 26.8 Yet R0432 Residential B / 66 45.4 49.5 NA NA NA 61.0 15.6 Yet R0433 Residential B / 66 44.6 47.2 NA NA NA 58.4 13.8 No R0434 Residential B / 66 44.6 47.2 NA NA NA 70.2 25.6 Yet R0435 Residential B / 66 44.6 47.8 NA NA NA A9.7 25.1 Yet R0436 Residential B / 66 45.3 48.6 NA NA NA A9.6	R0428	Residential	· ·	44.6	44.6	NA					Yes
R0430 Residential B / 66 44.6 44.6 NA NA NA 71.5 26.9 Yes R0431 Residential B / 66 44.6 44.6 NA NA NA 71.4 26.8 Yes R0432 Residential B / 66 45.4 49.5 NA NA NA 61.0 15.6 Yes R0433 Residential B / 66 44.6 47.2 NA NA NA 58.4 13.8 No R0434 Residential B / 66 44.6 47.2 NA NA NA 70.2 25.6 Yes R0435 Residential B / 66 44.6 47.8 NA NA NA 69.7 25.1 Yes R0436 Residential B / 66 45.3 48.6 NA NA NA 69.5 22.9 Yes R0437 Residential B / 66 48.1 51.3 NA NA NA	R0429					NA					Yes
R0431 Residential B / 66 44.6 44.6 NA NA NA 71.4 26.8 Yes R0432 Residential B / 66 45.4 49.5 NA NA NA NA 61.0 15.6 Yes R0433 Residential B / 66 44.6 47.2 NA NA NA 58.4 13.8 No R0434 Residential B / 66 44.6 47.2 NA NA NA 70.2 25.6 Yes R0435 Residential B / 66 44.6 47.8 NA NA NA 69.7 25.1 Yes R0436 Residential B / 66 45.3 48.6 NA NA NA 69.5 24.3 Yes R0437 Residential B / 66 46.6 49.8 NA NA NA ANA 69.5 22.9 Yes R0438 Residential B / 66 51.8 54.9 NA					_						Yes
R0432 Residential B / 66 45.4 49.5 NA NA NA 61.0 15.6 Yes R0433 Residential B / 66 44.6 47.2 NA NA NA 58.4 13.8 No R0434 Residential B / 66 44.6 47.2 NA NA NA 70.2 25.6 Yes R0435 Residential B / 66 44.6 47.8 NA NA NA 69.7 25.1 Yes R0436 Residential B / 66 45.3 48.6 NA NA NA 69.6 24.3 Yes R0437 Residential B / 66 46.6 49.8 NA NA NA 69.5 22.9 Yes R0438 Residential B / 66 48.1 51.3 NA NA NA NA 69.5 22.9 Yes R0439 Residential B / 66 51.8 54.9 NA NA			· ·		_						Yes
R0433 Residential B / 66 44.6 47.2 NA NA NA 58.4 13.8 NO R0434 Residential B / 66 44.6 47.2 NA NA NA 70.2 25.6 Yes R0435 Residential B / 66 44.6 47.8 NA NA NA 69.7 25.1 Yes R0436 Residential B / 66 45.3 48.6 NA NA NA 69.6 24.3 Yes R0437 Residential B / 66 46.6 49.8 NA NA NA 69.5 22.9 Yes R0438 Residential B / 66 48.1 51.3 NA NA NA 69.5 22.9 Yes R0438 Residential B / 66 51.8 54.9 NA NA NA 69.1 21.0 Yes R0439 Residential B / 66 59.4 62.4 NA NA NA			· .								Yes
R0434 Residential B / 66 44.6 47.2 NA NA NA 70.2 25.6 Yes R0435 Residential B / 66 44.6 47.8 NA NA NA NA 69.7 25.1 Yes R0436 Residential B / 66 45.3 48.6 NA NA NA 69.6 24.3 Yes R0437 Residential B / 66 46.6 49.8 NA NA NA 69.5 22.9 Yes R0438 Residential B / 66 48.1 51.3 NA NA NA 69.1 21.0 Yes R0439 Residential B / 66 51.8 54.9 NA NA NA 68.9 17.1 Yes R0440 Residential B / 66 59.4 62.4 NA NA NA 60.7 1.3 No R0441 Residential B / 66 58.9 62.0 NA NA <			· ·								No
R0435 Residential B / 66 44.6 47.8 NA NA NA 69.7 25.1 Yes R0436 Residential B / 66 45.3 48.6 NA NA NA 69.6 24.3 Yes R0437 Residential B / 66 46.6 49.8 NA NA NA 69.5 22.9 Yes R0438 Residential B / 66 48.1 51.3 NA NA NA 69.1 21.0 Yes R0439 Residential B / 66 51.8 54.9 NA NA NA 68.9 17.1 Yes R0440 Residential B / 66 59.4 62.4 NA NA NA 60.7 1.3 No R0441 Residential B / 66 59.0 62.1 NA NA NA 60.8 1.8 No R0442 Residential B / 66 58.9 62.0 NA NA NA <td< td=""><td></td><td></td><td>·</td><td>_</td><td></td><td>İ</td><td></td><td></td><td></td><td></td><td></td></td<>			·	_		İ					
R0436 Residential B / 66 45.3 48.6 NA NA NA 69.6 24.3 Yes R0437 Residential B / 66 46.6 49.8 NA NA NA 69.5 22.9 Yes R0438 Residential B / 66 48.1 51.3 NA NA NA 69.1 21.0 Yes R0439 Residential B / 66 51.8 54.9 NA NA NA 68.9 17.1 Yes R0440 Residential B / 66 59.4 62.4 NA NA NA 60.7 1.3 No R0441 Residential B / 66 59.0 62.1 NA NA NA 60.8 1.8 No R0442 Residential B / 66 58.9 62.0 NA NA NA 61.0 2.1 No R0443 Residential B / 66 58.6 61.6 NA NA NA N											Yes
R0437 Residential B / 66 46.6 49.8 NA NA NA 69.5 22.9 Yes R0438 Residential B / 66 48.1 51.3 NA NA NA 69.1 21.0 Yes R0439 Residential B / 66 51.8 54.9 NA NA NA NA 68.9 17.1 Yes R0440 Residential B / 66 59.4 62.4 NA NA NA 60.7 1.3 No R0441 Residential B / 66 59.0 62.1 NA NA NA NA 60.8 1.8 No R0442 Residential B / 66 58.9 62.0 NA NA NA NA 61.0 2.1 No R0443 Residential B / 66 58.6 61.6 NA NA NA NA 61.1 2.5 No R0444 Residential B / 66 58.9 61.9<			·								Yes
R0438 Residential B / 66 48.1 51.3 NA NA NA 69.1 21.0 Yes R0439 Residential B / 66 51.8 54.9 NA NA NA 68.9 17.1 Yes R0440 Residential B / 66 59.4 62.4 NA NA NA 60.7 1.3 No R0441 Residential B / 66 59.0 62.1 NA NA NA 60.8 1.8 No R0442 Residential B / 66 58.9 62.0 NA NA NA 61.0 2.1 No R0443 Residential B / 66 58.6 61.6 NA NA NA 61.1 2.5 No R0444 Residential B / 66 58.9 61.9 NA NA NA 61.8 2.9 No R0445 Residential B / 66 58.6 61.6 NA NA NA NA <td></td> <td></td> <td></td> <td></td> <td></td> <td>İ</td> <td></td> <td></td> <td></td> <td></td> <td>Yes</td>						İ					Yes
R0439 Residential B / 66 51.8 54.9 NA NA NA 68.9 17.1 Yes R0440 Residential B / 66 59.4 62.4 NA NA NA 60.7 1.3 No R0441 Residential B / 66 59.0 62.1 NA NA NA 60.8 1.8 No R0442 Residential B / 66 58.9 62.0 NA NA NA 61.0 2.1 No R0443 Residential B / 66 58.6 61.6 NA NA NA 61.1 2.5 No R0444 Residential B / 66 58.9 61.9 NA NA NA 61.8 2.9 No R0445 Residential B / 66 58.3 61.4 NA NA NA 62.1 3.5 No R0446 Residential B / 66 58.6 61.6 NA NA NA NA											Yes
R0440 Residential B / 66 59.4 62.4 NA NA NA 60.7 1.3 No R0441 Residential B / 66 59.0 62.1 NA NA NA 60.8 1.8 No R0442 Residential B / 66 58.9 62.0 NA NA NA 61.0 2.1 No R0443 Residential B / 66 58.6 61.6 NA NA NA 61.1 2.5 No R0444 Residential B / 66 58.9 61.9 NA NA NA NA 61.8 2.9 No R0445 Residential B / 66 58.3 61.4 NA NA NA 61.9 3.6 No R0446 Residential B / 66 58.6 61.6 NA NA NA NA 62.1 3.5 No R0447 Residential B / 66 58.5 61.5 NA NA											Yes
R0441 Residential B / 66 59.0 62.1 NA NA NA 60.8 1.8 No R0442 Residential B / 66 58.9 62.0 NA NA NA 61.0 2.1 No R0443 Residential B / 66 58.6 61.6 NA NA NA 61.1 2.5 No R0444 Residential B / 66 58.9 61.9 NA NA NA 61.8 2.9 No R0445 Residential B / 66 58.3 61.4 NA NA NA 61.9 3.6 No R0446 Residential B / 66 58.6 61.6 NA NA NA NA 62.1 3.5 No R0447 Residential B / 66 58.5 61.5 NA NA NA NA 62.3 3.8 No R0448 Residential B / 66 57.5 60.6 NA NA			·								
R0442 Residential B / 66 58.9 62.0 NA NA NA 61.0 2.1 No R0443 Residential B / 66 58.6 61.6 NA NA NA 61.1 2.5 No R0444 Residential B / 66 58.9 61.9 NA NA NA 61.8 2.9 No R0445 Residential B / 66 58.3 61.4 NA NA NA 61.9 3.6 No R0446 Residential B / 66 58.6 61.6 NA NA NA NA 62.1 3.5 No R0447 Residential B / 66 58.5 61.5 NA NA NA NA 62.3 3.8 No R0448 Residential B / 66 57.5 60.6 NA NA NA NA 62.5 5.0 No											
R0443 Residential B / 66 58.6 61.6 NA NA NA 61.1 2.5 No R0444 Residential B / 66 58.9 61.9 NA NA NA 61.8 2.9 No R0445 Residential B / 66 58.3 61.4 NA NA NA 61.9 3.6 No R0446 Residential B / 66 58.6 61.6 NA NA NA NA 62.1 3.5 No R0447 Residential B / 66 58.5 61.5 NA NA NA NA 62.3 3.8 No R0448 Residential B / 66 57.5 60.6 NA NA NA NA 62.5 5.0 No			·			İ					No
R0444 Residential B / 66 58.9 61.9 NA NA NA 61.8 2.9 No R0445 Residential B / 66 58.3 61.4 NA NA NA 61.9 3.6 No R0446 Residential B / 66 58.6 61.6 NA NA NA 62.1 3.5 No R0447 Residential B / 66 58.5 61.5 NA NA NA 62.3 3.8 No R0448 Residential B / 66 57.5 60.6 NA NA NA NA 62.5 5.0 No											
R0445 Residential B / 66 58.3 61.4 NA NA NA 61.9 3.6 No R0446 Residential B / 66 58.6 61.6 NA NA NA 62.1 3.5 No R0447 Residential B / 66 58.5 61.5 NA NA NA 62.3 3.8 No R0448 Residential B / 66 57.5 60.6 NA NA NA NA 62.5 5.0 No											
R0446 Residential B / 66 58.6 61.6 NA NA NA 62.1 3.5 No R0447 Residential B / 66 58.5 61.5 NA NA NA 62.3 3.8 No R0448 Residential B / 66 57.5 60.6 NA NA NA 62.5 5.0 No			·			İ					
R0447 Residential B / 66 58.5 61.5 NA NA NA 62.3 3.8 No R0448 Residential B / 66 57.5 60.6 NA NA NA 62.5 5.0 No											
R0448 Residential B / 66 57.5 60.6 NA NA NA 62.5 5.0 No											
			·			İ					
											No No

						Alt 1			Alt 7A	
Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0451	Residential	B / 66	57.7	60.7	NA	NA	NA	63.3	5.6	No
R0452	Residential	B / 66	58.0	61.1	NA	NA	NA	63.7	5.7	No
R0453	Residential	B / 66	58.2	61.2	NA	NA	NA	64.0	5.8	No
R0454	Residential	B / 66	58.3	61.4	NA	NA	NA	65.2	6.9	No
R0455	Residential	B / 66	58.2	61.2	NA	NA	NA	65.6	7.4	No
R0456	Residential	B / 66	57.9	61.0	NA	NA	NA	65.7	7.8	No
R0457	Residential	B / 66	58.2	61.3	NA	NA	NA	66.3	8.1	Yes
R0458	Residential	B / 66	58.4	61.5	NA	NA	NA	66.9	8.5	Yes
R0459	Residential	B / 66	58.6	61.6	NA	NA	NA	67.4	8.8	Yes
R0460	Residential	B / 66	56.3	59.4	NA	NA	NA	66.1	9.8	Yes
R0461	Residential	B / 66	56.7	59.8	NA	NA	NA	66.6	9.9	Yes
R0462	Residential	B / 66	57.1	60.2	NA	NA	NA	67.0	9.9	Yes
R0463	Residential	B / 66	57.6	60.7	NA	NA	NA	67.8	10.2	Yes
R0464	Residential	B / 66	56.5	59.6	NA	NA	NA	66.9	10.4	Yes
R0465	Residential	B / 66	56.8	59.8	NA	NA	NA	67.3	10.5	Yes
R0466	Residential	B / 66	57.2	60.2	NA	NA	NA	67.7	10.5	Yes
R0467	Residential	B / 66	57.4	60.4	NA	NA	NA	68.0	10.6	Yes
R0468	Residential	B / 66	44.6	44.6	NA	NA	NA	46.1	1.5	No
R0468-1	Residential	B / 66	44.6	44.6	NA	NA	NA	48.9	4.3	No
R0469	Residential	B / 66	44.6	44.6	NA	NA	NA	46.0	1.4	No
R0469-1	Residential	B / 66	44.6	44.9	NA	NA	NA	49.0	4.4	No
R0470	Residential	B / 66	44.6	44.6	NA	NA	NA	46.2	1.6	No
R0470-1	Residential	B / 66	44.6	46.0	NA	NA	NA	49.0	4.4	No
R0471	Residential	B / 66	44.6	44.6	NA	NA	NA	46.6	2.0	No
R0471-1	Residential	B / 66	44.6	46.4	NA	NA	NA	49.4	4.8	No
R0472	Residential	B / 66	44.6	44.6	NA	NA	NA	48.7	4.1	No
R0472-1	Residential	B / 66	44.6	46.8	NA	NA	NA	50.7	6.1	No
R0473	Residential	B / 66	44.6	44.6	NA	NA	NA	48.2	3.6	No
R0473-1	Residential	B / 66	44.6	46.1	NA	NA	NA	50.1	5.5	No
R0474	Residential	B / 66	44.6	44.6	NA	NA	NA	45.5	0.9	No
R0475	Residential	B / 66	44.6	44.6	NA	NA	NA	49.3	4.7	No
R0476	Residential	B / 66	47.7	50.8	NA	NA	NA	58.4	10.7	No
R0477	Residential	B / 66	47.5	50.6	NA	NA	NA	58.2	10.7	No
R0478	Residential	B / 66	46.8	49.9	NA	NA	NA	57.4	10.6	No
R0479	Residential	B / 66	47.8	50.8	NA	NA	NA	58.5	10.7	No
R0480	Residential	B / 66	44.6	47.0	NA	NA	NA	53.8	9.2	No
R0481	Residential	B / 66	44.6	46.3	NA	NA	NA	52.8	8.2	No



						Alt 1			Alt 7A	
Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0482	Residential	B / 66	44.6	44.6	NA	NA	NA	49.9	5.3	No
R0483	Residential	B / 66	44.6	44.6	NA	NA	NA	47.7	3.1	No
R0484	Residential	B / 66	44.6	44.6	NA	NA	NA	46.2	1.6	No
R0485	Residential	B / 66	44.6	44.6	NA	NA	NA	45.7	1.1	No
R0486	Residential	B / 66	44.6	44.6	NA	NA	NA	46.2	1.6	No
R0487	Residential	B / 66	44.6	44.6	NA	NA	NA	46.9	2.3	No
R0488	Residential	B / 66	44.6	45.5	NA	NA	NA	52.1	7.5	No
R0489	Residential	B / 66	44.6	46.8	NA	NA	NA	53.5	8.9	No
R0490	Residential	B / 66	44.6	46.8	NA	NA	NA	53.7	9.1	No
R0491	Residential	B / 66	44.6	44.6	NA	NA	NA	50.7	6.1	No
R0492	Residential	B / 66	45.4	48.5	NA	NA	NA	54.8	9.4	No
R0493	Residential	B / 66	45.5	48.6	NA	NA	NA	55.5	10.0	No
R0494	Residential	B / 66	46.1	49.2	NA	NA	NA	56.1	10.0	No
R0495	Residential	B / 66	46.8	49.9	NA	NA	NA	57.1	10.3	No
R0496	Residential	B / 66	47.4	50.5	NA	NA	NA	57.8	10.4	No
R0497	Residential	B / 66	48.0	51.1	NA	NA	NA	58.7	10.7	No
R0498	Residential	B / 66	44.6	44.6	NA	NA	NA	45.5	0.9	No
R0499	Residential	B / 66	44.6	44.6	NA	NA	NA	46.2	1.6	No
R0500	Residential	B / 66	44.6	44.6	NA	NA	NA	47.0	2.4	No
R0501	Residential	B / 66	44.6	44.6	NA	NA	NA	47.6	3.0	No
R0502	Residential	B / 66	44.6	44.6	NA	NA	NA	48.4	3.8	No
R0503	Residential	B / 66	44.6	44.6	NA	NA	NA	49.3	4.7	No
R0504	Residential	B / 66	44.7	47.8	NA	NA	NA	54.4	9.7	No
R0505	Residential	B / 66	44.6	47.6	NA	NA	NA	54.4	9.8	No
R0506	Residential	B / 66	44.6	47.6	NA	NA	NA	54.4	9.8	No
R0507	Residential	B / 66	44.6	47.6	NA	NA	NA	54.4	9.8	No
R0508	Residential	B / 66	44.6	47.6	NA	NA	NA	54.4	9.8	No
R0509	Residential	B / 66	44.6	47.7	NA	NA	NA	54.4	9.8	No
R0510	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0511	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0512	Residential	B / 66	44.6	44.6	NA	NA	NA	48.2	3.6	No
R0513	Residential	B / 66	44.6	44.6	NA	NA	NA	44.8	0.2	No
R0514	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0515	Residential	B / 66	44.6	44.6	NA	NA	NA	47.6	3.0	No
R0516	Residential	B / 66	44.6	44.6	NA	NA	NA	49.3	4.7	No
R0517	Residential	B / 66	44.6	44.6	NA	NA	NA	52.7	8.1	No
R0518	Residential	B / 66	44.6	47.5	NA	NA	NA	55.0	10.4	No



						Alt 1			Alt 7A	
Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0519	Residential	B / 66	44.6	45.2	NA	NA	NA	52.7	8.1	No
R0520	Residential	B / 66	44.6	44.6	NA	NA	NA	51.1	6.5	No
R0521	Residential	B / 66	44.6	44.6	NA	NA	NA	49.2	4.6	No
R0522	Residential	B / 66	45.5	48.6	NA	NA	NA	57.8	12.3	No
R0523	Residential	B / 66	50.1	53.2	NA	NA	NA	62.2	12.1	No
R0524	Residential	B / 66	51.5	54.6	NA	NA	NA	63.0	11.5	No
R0525	Residential	B / 66	51.3	54.4	NA	NA	NA	62.1	10.8	No
R0526	Residential	B / 66	51.1	54.1	NA	NA	NA	62.2	11.1	No
R0527	Residential	B / 66	44.7	47.8	NA	NA	NA	55.0	10.3	No
R0528	Residential	B / 66	44.6	45.7	NA	NA	NA	52.2	7.6	No
R0529	Residential	B / 66	44.6	44.9	NA	NA	NA	51.8	7.2	No
R0530	Residential	B / 66	44.6	44.6	NA	NA	NA	50.3	5.7	No
R0531	Residential	B / 66	44.6	45.0	NA	NA	NA	50.8	6.2	No
R0532	Residential	B / 66	44.6	44.6	NA	NA	NA	49.2	4.6	No
R0533	Residential	B / 66	44.6	44.6	NA	NA	NA	46.4	1.8	No
R0534	Residential	B / 66	44.6	44.6	NA	NA	NA	49.6	5.0	No
R0535	Residential	B / 66	44.6	44.6	NA	NA	NA	49.7	5.1	No
R0536	Residential	B / 66	45.0	48.1	NA	NA	NA	53.7	8.7	No
R0537	Residential	B / 66	46.1	49.2	NA	NA	NA	55.1	9.0	No
R0538	Residential	B / 66	47.9	51.0	NA	NA	NA	57.1	9.2	No
R0539	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0540	Residential	B / 66	44.6	44.6	NA	NA	NA	47.5	2.9	No
R0541	Residential	B / 66	44.6	44.8	NA	NA	NA	49.0	4.4	No
R0542	Residential	B / 66	45.2	48.2	NA	NA	NA	54.1	8.9	No
R0543	Residential	B / 66	44.6	45.7	NA	NA	NA	50.7	6.1	No
R0544	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0545	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0546	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0547	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0548	Residential	B / 66	44.6	44.6	NA	NA	NA	48.1	3.5	No
R0549	Residential	B / 66	44.6	44.6	NA	NA	NA	47.3	2.7	No
R0550	Residential	B / 66	44.6	44.7	NA	NA	NA	45.5	0.9	No
R0551	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0552	Residential	B / 66	47.4	50.4	NA	NA	NA	57.4	10.0	No
R0553	Residential	B / 66	47.4	50.4	NA	NA	NA	57.8	10.4	No
R0554	Residential	B / 66	47.3	50.4	NA	NA	NA	58.1	10.8	No
R0555	Residential	B / 66	47.7	50.7	NA	NA	NA	58.2	10.5	No



						Alt 1			Alt 7A	
Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0556	Residential	B / 66	47.2	50.2	NA	NA	NA	58.1	10.9	No
R0557	Residential	B / 66	47.6	50.6	NA	NA	NA	58.7	11.1	No
R0558	Residential	B / 66	47.7	50.7	NA	NA	NA	58.6	10.9	No
R0559	Residential	B / 66	47.4	50.5	NA	NA	NA	58.7	11.3	No
R0560	Residential	B / 66	48.3	51.3	NA	NA	NA	59.0	10.7	No
R0561	Residential	B / 66	48.5	51.7	NA	NA	NA	58.0	9.5	No
R0562	Residential	B / 66	47.7	50.9	NA	NA	NA	56.1	8.4	No
R0563	Residential	B / 66	44.6	44.6	NA	NA	NA	49.9	5.3	No
R0564	Residential	B / 66	44.6	44.6	NA	NA	NA	46.7	2.1	No
R0565	Residential	B / 66	44.6	44.6	NA	NA	NA	46.9	2.3	No
R0566	Residential	B / 66	47.3	50.4	NA	NA	NA	54.8	7.5	No
R0567	Residential	B / 66	47.5	50.7	NA	NA	NA	54.1	6.6	No
R0568	Pool	C / 66	45.3	48.3	NA	NA	NA	55.1	9.8	No
R0569	Fire Station	F /	59.5	62.6	NA	NA	NA	66.9	7.4	No
R0570	Residential	B / 66	44.6	46.0	NA	NA	NA	64.3	19.7	Yes
R0571	Residential	B / 66	44.6	44.6	NA	NA	NA	59.8	15.2	Yes
R0572	Residential	B / 66	44.6	47.7	NA	NA	NA	70.6	26.0	Yes
R0573	Residential	B / 66	68.6	70.8	69.4	0.8	Yes	69.5	0.9	Yes
R0574	Tennis Court	C / 66	44.6	47.6	NA	NA	NA	54.0	9.4	No
R0575	Tennis Court	C / 66	44.6	46.8	NA	NA	NA	52.7	8.1	No
R0576 R0577	Childrens Health Offices/Outdoor use	F/ E/71	71.1	74.9 77.0	73.6 75.1	2.5	No Yes	73.5 75.0	2.4 1.9	No Yes
R0578	Car Wash	F/	72.5	76.3	74.9	2.4	No	74.8	2.3	No
R0579	Retail/Advance Auto	F /	71.7	75.4	73.7	2.0	No	73.6	1.9	No
R0580	Retail/Laundry	F /	71.4	75.1	73.4	2.0	No	73.3	1.9	No
R0581	Health First	F /	74.0	77.7	73.0	-1.0	No	72.8	-1.2	No
R0582	Walgreens Office/Outdoor	F /	66.8	69.5	66.2	-0.6	No	65.7	-1.1	No
R0583	area Commercial/Outd	E / 71	66.5	68.8	67.5	1.0	No	67.7	1.2	No
R0584	oor	E / 71	68.3	70.4	69.5	1.2	No	68.9	0.6	No
R0585	Commercial	F /	62.4	64.5	64.1	1.7	No	63.8	1.4	No
R0586	Retail	F /	65.4	67.4	68.7	3.3	No	68.7	3.3	No
R0587	Office	E / 71	67.6	69.7	69.9	2.3	No	69.9	2.3	No
R0588	Office	E / 71	68.3	70.4	70.4	2.1	No	70.4	2.1	No
R0589	Commercial	F /	65.8	67.9	68.0	2.2	No	67.9	2.1	No
R0590	Commercial	F /	67.3	69.4	69.5	2.2	No	69.5	2.2	No
R0591 Ellarle	Commercial Stun County	F /	68.4 404	70.5 5 Bridge View	71.4 v Drive, Suite C20	3.0 4, North Charlesto	No n, SC 29405	71.4 www.hwy	3.0 41sc.com	No

Transportation Development

						Alt 1			Alt 7A	
Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0592	Gas Station	F /	64.3	66.6	65.4	1.1	No	65.4	1.1	No
R0593	Storage	F /	61.7	64.0	62.4	0.7	No	62.5	0.8	No
R0594	Commercial	F /	53.5	56.3	54.7	1.2	No	54.6	1.1	No
R0595	Commercial	F /	53.9	56.7	54.9	1.0	No	54.7	0.8	No
R0596	Commercial	F /	66.9	69.8	68.6	1.7	No	68.5	1.6	No
R0597	Commercial	F /	70.3	73.2	72.8	2.5	No	72.6	2.3	No
R0598	Commercial	F /	60.4	63.3	61.8	1.4	No	61.8	1.4	No
R0599	Commercial	F /	68.0	70.9	68.2	0.2	No	68.1	0.1	No
R0600	Commercial	F/	68.4	71.4	70.5	2.1	No	64.1	-4.3	No
R0601	Residential	B / 66	62.1	65.2	64.2	2.1	No	57.9	-4.2	No
R0602	Residential	B / 66	58.5	61.7	60.8	2.3	No	54.5	-4.0	No
R0603	Residential	B / 66	53.9	57.1	57.7	3.8	No	50.4	-3.5	No
R0604	Residential	B / 66	45.2	48.4	48.1	2.9	No	44.6	-0.6	No
R0605	Residential	B / 66	44.6	47.8	47.6	3.0	No	44.6	0.0	No
R0606	Residential	B / 66	44.6	47.0	46.6	2.0	No	44.6	0.0	No
R0607	Residential	B / 66	45.4	48.7	49.0	3.6	No	44.6	-0.8	No
R0608	Residential	B / 66	59.1	62.3	64.7	5.6	No	54.2	-4.9	No
R0609	Commercial	F/	67.2	70.6	71.1	3.9	No	63.1	-4.1	No
R0609-1	Commercial	F/	68.5	71.7	71.5	3.0	No	63.7	-4.8	No
R0610	Commercial	F/	67.7	71.4	71.6	3.9	No	63.6	-4.1	No
R0610-1	Commercial	F /	68.8	72.0	71.6	2.8	No	64.2	-4.6	No
R0611	Sports Complex	C / 66	54.1	57.1	56.7	2.6	No	56.1	2.0	No
R0612	Restaurant	E / 71	56.8	59.8	59.4	2.6	No	58.8	2.0	No
R0613	Commercial	F/	59.5	62.7	61.1	1.6	No	61.8	2.3	No
R0614	Commercial	F /	46.3	49.4	NA	NA	NA	55.1	8.8	No
R0614-1	Commercial	F /	49.7	52.8	NA	NA	NA	58.9	9.2	No
R0615	Commercial	F /	46.9	50.0	NA	NA	NA	55.9	9.0	No
R0616	Commercial	F /	51.0	54.2	NA	NA	NA	61.9	10.9	No
R0617	Commercial	F /	56.9	60.0	NA	NA	NA NA	65.9	9.0	No
R0618	Commercial	F /	56.5	59.6	NA	NA	NA NA	67.2	10.7	No
R0619	Commercial	F /	47.8	50.8	NA	NA	NA NA	58.1	10.3	No
R0620	Residential	B / 66	57.0	59.4	NA NA	NA NA	NA NA	52.1	-4.9	No
R0621	Residential	B / 66	47.9	50.4	NA	NA	NA	53.7	5.8	No
R0622	Residential	B / 66	45.0	47.6	NA	NA NA	NA NA	54.6	9.6	No
R0623	Residential	B / 66	44.6	45.4	NA NA	NA NA	NA NA	58.5	13.9	No
R0624	Residential	B / 66	44.6	44.6	NA NA	NA NA	NA NA	60.9	16.3	Yes
R0625	Residential	B / 66	44.6	44.6	NA NA	NA NA	NA	62.0	17.4	Yes

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		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0626	Residential	B / 66	44.6	44.6	NA	NA	NA	63.4	18.8	Yes
R0627	Residential	B / 66	44.6	44.6	NA	NA	NA	63.8	19.2	Yes
R0628	Residential	B / 66	44.6	44.6	NA	NA	NA	63.5	18.9	Yes
R0629	Residential	B / 66	44.6	44.6	NA	NA	NA	64.5	19.9	Yes
R0630	Residential	B / 66	44.6	44.6	NA	NA	NA	62.9	18.3	Yes
R0631	Residential	B / 66	44.6	44.6	NA	NA	NA	64.2	19.6	Yes
R0632	Residential	B / 66	44.6	44.6	NA	NA	NA	63.8	19.2	Yes
R0633	Residential	B / 66	44.6	44.6	NA	NA	NA	63.9	19.3	Yes
R0634	Residential	B / 66	44.6	44.6	NA	NA	NA	63.9	19.3	Yes
R0635	Residential	B / 66	44.6	44.6	NA	NA	NA	63.9	19.3	Yes
R0636	Residential	B / 66	44.6	44.6	NA	NA	NA	63.9	19.3	Yes
R0637	Residential	B / 66	44.6	44.6	NA	NA	NA	64.2	19.6	Yes
R0638	Residential	B / 66	44.6	44.6	NA	NA	NA	64.3	19.7	Yes
R0639	Residential	B / 66	44.6	44.6	NA	NA	NA	65.1	20.5	Yes
R0640	Residential	B / 66	44.6	44.6	NA	NA	NA	64.0	19.4	Yes
R0641	Residential	B / 66	44.6	44.6	NA	NA	NA	64.4	19.8	Yes
R0642	Residential	B / 66	45.5	48.3	NA	NA	NA	62.0	16.5	Yes
R0643	Residential	B / 66	44.6	44.6	NA	NA	NA	50.1	5.5	No
R0644	Residential	B / 66	44.6	44.6	NA	NA	NA	48.9	4.3	No
R0645	Residential	B / 66	44.6	44.6	NA	NA	NA	48.7	4.1	No
R0646	Residential	B / 66	44.6	44.6	NA	NA	NA	47.9	3.3	No
R0647	Residential	B / 66	44.6	44.6	NA	NA	NA	47.5	2.9	No
R0648	Residential	B / 66	44.6	44.6	NA	NA	NA	47.6	3.0	No
R0649	Residential	B / 66	44.6	44.6	NA	NA	NA	48.0	3.4	No
R0650	Residential	B / 66	44.6	44.6	NA	NA	NA	49.0	4.4	No
R0651	Residential	B / 66	44.6	44.6	NA	NA	NA	48.9	4.3	No
R0652	Residential	B / 66	44.6	44.6	NA	NA	NA	50.0	5.4	No
R0653	Residential	B / 66	44.6	44.6	NA	NA	NA	50.2	5.6	No
R0654	Residential	B / 66	44.6	44.6	NA	NA	NA	53.8	9.2	No
R0655	Residential	B / 66	44.6	44.6	NA	NA	NA	53.3	8.7	No
R0656	Residential	B / 66	44.6	44.6	NA	NA	NA	53.2	8.6	No
R0657	Residential	B / 66	44.6	44.6	NA	NA	NA	52.9	8.3	No
R0658	Residential	B / 66	44.6	44.6	NA	NA	NA	52.2	7.6	No
R0659	Residential	B / 66	44.6	44.6	NA	NA	NA	52.3	7.7	No
R0660	Residential	B / 66	44.6	44.6	NA	NA	NA	53.0	8.4	No
R0661	Residential	B / 66	44.6	44.6	NA	NA	NA	52.5	7.9	No
R0662	Residential	B / 66	44.6	44.6	NA	NA	NA	52.1	7.5	No

Receiver Description Receiver Description							Alt 1			Alt 7A	
R0663 Residential B / 66 S5.8 61.9 65.6 7.0 No. 65.2 6.0 No. R0664 Residential B / 66 S5.8 61.9 65.5 7.0 No. 65.2 6.5 No. 66.5 No. R0665 Residential B / 66 S5.8 61.9 65.7 6.5 No. 65.2 6.6 No. R0666 Residential B / 66 S5.8 61.9 65.7 6.9 No. 65.2 6.6 No. R0666 Residential B / 66 S5.8 61.9 65.7 6.9 No. 65.2 6.6 No. R0666 Residential B / 66 S5.8 61.9 65.7 6.9 No. 65.2 6.6 No. R0668 Residential B / 66 S5.8 61.6 65.6 7.0 No. 65.1 7.0 No. R0670 Residential B / 66 S5.8 61.9 65.6 7.0 No. 65.1 7.0 No. R0670 Residential B / 66 S7.8 60.9 65.6 7.8 No. 65.1 7.3 No. R0670 Residential B / 66 S7.8 60.9 65.5 7.9 No. 65.0 7.4 No. R0671 Residential B / 66 S7.8 60.9 65.5 7.9 No. 65.0 7.4 No. R0672 Residential B / 66 S7.8 60.9 65.5 8.1 No. 65.0 7.6 No. R0673 Residential B / 66 S5.6 S9.6 65.1 8.5 No. 64.7 8.1 No. R0674 Residential B / 66 S6.6 S9.6 65.1 8.5 No. 64.7 8.1 No. R0674 Residential B / 66 S6.6 S9.6 65.1 8.5 No. 64.8 8.3 No. R0674 Residential B / 66 S6.6 S9.5 S9.5 65.3 8.8 No. 64.8 8.3 No. R0676 Residential B / 66 S5.6 S9.5 S9.5 S6.3 S9.5	Receiver ID	Receiver Description	Category /	_	Action	Action	Action	Action Causes	Action	Action	Causes
R0664 Residential B 66 58.7 61.8 64.9 6.2 No 64.4 5.7 No R0665 Residential B 66 59.2 62.3 65.7 6.5 No 65.2 6.0 No R0666 Residential B 66 58.8 61.9 65.7 6.9 No 65.2 6.4 No R0667 Residential B 66 58.6 61.6 65.6 7.0 No 65.1 6.5 No R0668 Residential B 66 58.4 61.5 65.6 7.0 No 65.3 6.7 No R0668 Residential B 66 58.4 61.5 66.0 7.6 Yes 65.5 7.1 No R0670 Residential B 66 57.8 60.9 65.6 7.8 No 65.1 7.3 No R0671 Residential B 66 57.4 60.4 65.5 7.9 No 65.0 7.4 No R0671 Residential B 66 57.4 60.4 65.5 7.9 No 65.0 7.4 No R0672 Residential B 66 57.4 60.4 65.5 8.1 No 65.0 7.4 No R0673 Residential B 66 56.6 59.6 65.1 8.5 No 64.7 8.1 No R0674 Residential B 66 56.5 59.5 65.3 8.8 No 64.8 8.3 No R0675 Residential B 66 56.5 59.5 65.3 8.8 No 64.8 8.3 No R0676 Residential B 66 55.6 58.5 59.5 65.3 8.8 No 64.4 8.8 No R0676 Residential B 66 55.4 58.4 64.9 9.3 No 64.4 8.8 No R0678 Residential B 66 55.4 58.4 64.7 9.3 No 64.4 8.8 No R0679 Residential B 66 55.4 58.5 58.0 69.9 9.8 No 61.5 9.4 No R0680 Residential B 66 44.6 45.9 49.3 4.7 No 48.7 4.1 No R0681 Residential B 66 44.6 47.5 51.7 7.1 No 51.3 6.7 No R0686 Residential B 66 44.6 47.5 51.7 7.1 No 51.3 6.7 No R0688 Commercial F /			(dBA)	L _{eq} (dBA)		L _{eq} (dBA)	From Existing		L _{eq} (dBA)	From Existing	
R0665 Residential B / 66 S9.2 62.3 65.7 6.5 No 65.2 6.0 No R0666 Residential B / 66 S8.8 61.9 65.7 6.9 No 65.2 6.4 No R0667 Residential B / 66 S8.8 61.9 65.6 7.0 No 65.1 6.5 No R0668 Residential B / 66 S8.6 61.6 65.6 7.0 No 65.1 6.5 No R0668 Residential B / 66 S8.6 61.6 65.6 7.2 No 65.3 6.7 No R0668 Residential B / 66 S7.8 61.5 66.0 7.6 Yes 65.5 7.1 No R0670 Residential B / 66 S7.8 60.9 65.6 7.8 No 65.1 7.3 No R0671 Residential B / 66 S7.8 60.9 65.5 7.9 No 65.0 7.4 No R0672 Residential B / 66 S7.4 60.4 65.5 8.1 No 65.0 7.6 No R0672 Residential B / 66 S6.6 S6.5 S9.5 65.3 8.8 No 64.7 64.8 8.3 No R0674 Residential B / 66 S6.6 S9.5 59.5 65.3 8.8 No 64.8 8.3 No R0675 Residential B / 66 S6.6 S6.5 S9.5 S6.3 8.8 No 64.4 8.8 No R0676 Residential B / 66 S5.6 S5.6 S6.5 9.2 No 65.0 8.7 No R0676 Residential B / 66 S5.6 S6.6 S6.5 S9.2 No 64.4 8.8 No R0677 Residential B / 66 S5.4 S8.4 64.7 9.3 No 64.2 8.8 No R0679 Residential B / 66 S5.7 S8.7 S6.2 9.5 No 64.7 9.0 No R0680 Residential B / 66 S5.7 S8.7 S6.2 9.5 No 64.7 9.0 No R0680 Residential B / 66 44.6 45.9 49.3 4.7 No 48.7 4.1 No R0681 Residential B / 66 44.6 47.1 S1.3 6.7 No S7.6 8.7 No R0688 Residential B / 66 44.6 47.5 S1.7 7.1 No 51.3 6.6 No R0681 Residential B / 66 44.6 47.5 S1.7 7.1 No S1.3 6.6 No R0688 Residential B / 66 44.6 47.5 S1.7 7.1 No 51.3 6.6 No R0688 Commercial F/	R0663	Residential	B / 66	44.6	44.6	NA	NA	NA	52.3	7.7	No
R0666 Residential B / 66 S8.8 61.9 65.7 6.9 No 65.2 6.4 No R0667 Residential B / 66 S8.6 61.6 65.6 7.0 No 65.1 6.5 No R0668 Residential B / 66 S8.6 61.6 65.8 7.2 No 65.3 6.7 No R0669 Residential B / 66 S8.4 61.5 66.0 7.6 Yes 65.5 7.1 No R0669 Residential B / 66 S7.8 60.9 65.6 7.8 No 65.1 7.3 No R0671 Residential B / 66 S7.8 60.9 65.6 7.8 No 65.0 7.4 No R0672 Residential B / 66 S7.4 60.4 65.5 S8.1 No 65.0 7.6 No R0673 Residential B / 66 S6.6 S9.6 65.1 8.5 No 64.7 8.1 No R0674 Residential B / 66 S6.5 S9.6 65.1 8.5 No 64.7 8.1 No R0674 Residential B / 66 S6.5 S9.3 65.5 9.2 No 65.0 8.7 No R0676 Residential B / 66 S5.6 S8.6 64.9 9.3 No 64.4 8.8 No R0677 Residential B / 66 S5.4 S8.4 64.7 9.3 No 64.4 8.8 No R0678 Residential B / 66 S5.7 S8.7 65.2 9.5 No 64.7 9.0 No R0679 Residential B / 66 S5.7 S8.7 65.2 9.5 No 64.7 9.0 No R0679 Residential B / 66 S5.1 S8.0 S8.0 S8.0 S9.0 S7.0 No R0681 Residential B / 66 S2.1 S5.0 S8.0 S8.0 S9.0 S7.6 S8.7 No R0682 Residential B / 66 S2.1 S5.0 S8.0 S9.0 S7.0	R0664	Residential	B / 66	58.7	61.8	64.9	6.2	No	64.4	5.7	No
R0667 Residential B / 66 S8.6 61.6 65.6 7.0 No 65.1 6.5 No R0668 Residential B / 66 S8.6 61.6 65.8 7.2 No 65.3 6.7 No R0669 Residential B / 66 S8.4 61.5 66.0 7.6 Yes 65.5 7.1 No R0670 Residential B / 66 S7.8 60.9 65.6 7.8 No 65.1 7.3 No R0671 Residential B / 66 S7.6 60.6 65.5 7.9 No 65.0 7.4 No R0672 Residential B / 66 S7.6 60.6 65.5 7.9 No 65.0 7.6 No R0673 Residential B / 66 S6.6 S9.6 65.1 8.5 No 64.7 8.1 No R0674 Residential B / 66 S6.5 S9.5 65.3 8.8 No 64.8 8.3 No R0675 Residential B / 66 S6.5 S9.5 65.3 8.8 No 64.8 8.3 No R0675 Residential B / 66 S5.6 S8.6 64.9 9.3 No 64.4 8.8 No R0677 Residential B / 66 S5.4 S8.4 64.7 9.3 No 64.4 8.8 No R0678 Residential B / 66 S5.7 S8.7 65.2 9.5 No 64.7 9.0 No R0679 Residential B / 66 S5.7 S8.7 65.2 9.5 No 64.7 9.0 No R0680 Residential B / 66 44.6 45.9 49.3 4.7 No 48.7 4.1 No R0682 Residential B / 66 44.6 45.9 49.3 4.7 No 48.7 4.1 No R0682 Residential B / 66 44.6 47.1 51.3 6.7 No 51.3 6.7 No R0683 Residential B / 66 44.6 47.5 51.7 7.1 No 51.3 6.7 No R0688 Residential B / 66 44.6 47.5 51.7 7.1 No 51.3 6.7 No R0688 Residential B / 66 44.6 47.5 51.7 7.1 No 51.3 6.7 No R0688 Commercial F/ 70.7 73.7 72.7 2.0 No 72.5 1.8 No R0689 Commercial F/ 56.0 59.1 60.1 4.1 No 59.6 3.6 No R0690 Residential B / 66 46.3 49.0 49.1 4	R0665	Residential	B / 66	59.2	62.3	65.7	6.5	No	65.2	6.0	No
R0668 Residential B / 66 58.6 61.6 65.8 7.2 No 65.3 6.7 No R0669 Residential B / 66 58.4 61.5 66.0 7.6 Yes 65.5 7.1 No R0670 Residential B / 66 57.8 60.9 65.6 7.8 No 65.1 7.3 No R0671 Residential B / 66 57.6 60.6 65.5 7.9 No 65.0 7.4 No R0672 Residential B / 66 56.6 59.6 65.1 8.5 No 65.0 7.6 No R0673 Residential B / 66 56.5 59.5 65.3 8.8 No 64.7 8.1 No R0675 Residential B / 66 56.3 59.3 65.5 9.2 No 65.0 8.7 No R0676 Residential B / 66 55.6 58.6 64.9 9.3 No </td <td>R0666</td> <td>Residential</td> <td>B / 66</td> <td>58.8</td> <td>61.9</td> <td>65.7</td> <td>6.9</td> <td>No</td> <td>65.2</td> <td>6.4</td> <td>No</td>	R0666	Residential	B / 66	58.8	61.9	65.7	6.9	No	65.2	6.4	No
R0669 Residential B / 66 58.4 61.5 66.0 7.6 Yes 65.5 7.1 No R0670 Residential B / 66 57.8 60.9 65.6 7.8 No 65.1 7.3 No R0671 Residential B / 66 57.6 60.6 65.5 7.9 No 65.0 7.4 No R0672 Residential B / 66 57.4 60.4 65.5 8.1 No 65.0 7.6 No R0673 Residential B / 66 56.6 59.5 65.3 8.8 No 64.8 8.3 No R0674 Residential B / 66 56.3 59.3 65.5 9.2 No 65.0 8.7 No R0676 Residential B / 66 55.6 58.6 64.9 9.3 No 64.4 8.8 No R0677 Residential B / 66 55.7 58.7 65.2 9.5 No </td <td>R0667</td> <td>Residential</td> <td>B / 66</td> <td>58.6</td> <td>61.6</td> <td>65.6</td> <td>7.0</td> <td>No</td> <td>65.1</td> <td>6.5</td> <td>No</td>	R0667	Residential	B / 66	58.6	61.6	65.6	7.0	No	65.1	6.5	No
R0670 Residential B / 66 57.8 60.9 65.6 7.8 No 65.1 7.3 No R0671 Residential B / 66 57.6 60.6 65.5 7.9 No 65.0 7.4 No R0672 Residential B / 66 57.4 60.4 65.5 8.1 No 65.0 7.6 No R0673 Residential B / 66 56.6 59.6 65.1 8.5 No 64.7 8.1 No R0675 Residential B / 66 56.5 59.5 65.3 9.3 No 65.0 8.7 No R0676 Residential B / 66 55.6 58.6 64.9 9.3 No 64.4 8.8 No R0677 Residential B / 66 55.7 58.7 65.2 9.5 No 64.7 9.0 No R0679 Residential B / 66 52.1 55.0 61.9 9.8 No <td>R0668</td> <td>Residential</td> <td>B / 66</td> <td>58.6</td> <td>61.6</td> <td>65.8</td> <td>7.2</td> <td>No</td> <td>65.3</td> <td>6.7</td> <td>No</td>	R0668	Residential	B / 66	58.6	61.6	65.8	7.2	No	65.3	6.7	No
R0671 Residential B / 66 57.6 60.6 65.5 7.9 No 65.0 7.4 No R0672 Residential B / 66 57.4 60.4 65.5 8.1 No 65.0 7.6 No R0673 Residential B / 66 56.6 59.6 65.1 8.5 No 64.7 8.1 No R0674 Residential B / 66 56.5 59.5 65.3 8.8 No 64.8 8.3 No R0675 Residential B / 66 55.6 58.6 64.9 9.3 No 64.4 8.8 No R0676 Residential B / 66 55.6 58.6 64.9 9.3 No 64.4 8.8 No R0677 Residential B / 66 55.7 58.7 66.2 9.5 No 64.2 8.8 No R0678 Residential B / 66 48.9 51.8 58.0 9.1 No <td>R0669</td> <td>Residential</td> <td>B / 66</td> <td>58.4</td> <td>61.5</td> <td>66.0</td> <td>7.6</td> <td>Yes</td> <td>65.5</td> <td>7.1</td> <td>No</td>	R0669	Residential	B / 66	58.4	61.5	66.0	7.6	Yes	65.5	7.1	No
R0672 Residential B / 66 57.4 60.4 65.5 8.1 No 65.0 7.6 No R0673 Residential B / 66 56.6 59.6 65.1 8.5 No 64.7 8.1 No R0674 Residential B / 66 56.5 59.5 65.3 8.8 No 64.8 8.3 No R0675 Residential B / 66 56.3 59.3 65.5 9.2 No 65.0 8.7 No R0676 Residential B / 66 55.6 58.6 64.9 9.3 No 64.4 8.8 No R0677 Residential B / 66 55.4 58.4 64.7 9.3 No 64.7 9.0 No R0678 Residential B / 66 55.7 58.7 65.2 9.5 No 64.7 9.0 No R0679 Residential B / 66 48.9 51.8 58.0 9.1 No <td>R0670</td> <td>Residential</td> <td>B / 66</td> <td>57.8</td> <td>60.9</td> <td>65.6</td> <td>7.8</td> <td>No</td> <td>65.1</td> <td>7.3</td> <td>No</td>	R0670	Residential	B / 66	57.8	60.9	65.6	7.8	No	65.1	7.3	No
R0673 Residential B / 66 56.6 59.6 65.1 8.5 No 64.7 8.1 No R0674 Residential B / 66 56.5 59.5 65.3 8.8 No 64.8 8.3 No R0675 Residential B / 66 56.3 59.3 65.5 9.2 No 65.0 8.7 No R0676 Residential B / 66 55.6 58.6 64.9 9.3 No 64.4 8.8 No R0677 Residential B / 66 55.4 58.4 64.7 9.3 No 64.2 8.8 No R0678 Residential B / 66 55.7 58.7 65.2 9.5 No 64.7 9.0 No R0679 Residential B / 66 52.1 55.0 61.9 9.8 No 61.5 9.4 No R0680 Residential B / 66 44.6 45.9 49.3 4.7 No <td>R0671</td> <td>Residential</td> <td>B / 66</td> <td>57.6</td> <td>60.6</td> <td>65.5</td> <td>7.9</td> <td>No</td> <td>65.0</td> <td>7.4</td> <td>No</td>	R0671	Residential	B / 66	57.6	60.6	65.5	7.9	No	65.0	7.4	No
R0674 Residential B / 66 56.5 59.5 65.3 8.8 No 64.8 8.3 No R0675 Residential B / 66 56.3 59.3 65.5 9.2 No 65.0 8.7 No R0676 Residential B / 66 55.6 58.6 64.9 9.3 No 64.4 8.8 No R0677 Residential B / 66 55.4 58.4 64.7 9.3 No 64.2 8.8 No R0678 Residential B / 66 55.7 58.7 65.2 9.5 No 64.7 9.0 No R0679 Residential B / 66 52.1 55.0 61.9 9.8 No 61.5 9.4 No R0680 Residential B / 66 48.9 51.8 58.0 9.1 No 57.6 8.7 No R0681 Residential B / 66 44.6 45.9 49.3 4.7 No <td>R0672</td> <td>Residential</td> <td>B / 66</td> <td>57.4</td> <td>60.4</td> <td>65.5</td> <td>8.1</td> <td>No</td> <td>65.0</td> <td>7.6</td> <td>No</td>	R0672	Residential	B / 66	57.4	60.4	65.5	8.1	No	65.0	7.6	No
R0675 Residential B / 66 56.3 59.3 65.5 9.2 No 65.0 8.7 No R0676 Residential B / 66 55.6 58.6 64.9 9.3 No 64.4 8.8 No R0677 Residential B / 66 55.4 58.4 64.7 9.3 No 64.2 8.8 No R0678 Residential B / 66 55.7 58.7 65.2 9.5 No 64.7 9.0 No R0679 Residential B / 66 48.9 51.8 58.0 9.1 No 57.6 8.7 No R0680 Residential B / 66 44.6 45.9 49.3 4.7 No 48.7 4.1 No R0681 Residential B / 66 44.6 47.1 51.3 6.7 No 50.9 6.3 No R0682 Residential B / 66 44.6 47.1 51.3 6.7 No <td>R0673</td> <td>Residential</td> <td>B / 66</td> <td>56.6</td> <td>59.6</td> <td>65.1</td> <td>8.5</td> <td>No</td> <td>64.7</td> <td>8.1</td> <td>No</td>	R0673	Residential	B / 66	56.6	59.6	65.1	8.5	No	64.7	8.1	No
R0676 Residential B / 66 55.6 58.6 64.9 9.3 No 64.4 8.8 No R0677 Residential B / 66 55.4 58.4 64.7 9.3 No 64.2 8.8 No R0678 Residential B / 66 55.7 58.7 65.2 9.5 No 64.7 9.0 No R0679 Residential B / 66 52.1 55.0 61.9 9.8 No 61.5 9.4 No R0680 Residential B / 66 48.9 51.8 58.0 9.1 No 57.6 8.7 No R0681 Residential B / 66 44.6 45.9 49.3 4.7 No 48.7 4.1 No R0682 Residential B / 66 44.6 47.1 51.3 6.7 No 50.9 6.3 No R0683 Residential B / 66 44.6 47.5 51.7 7.1 No <td>R0674</td> <td>Residential</td> <td>B / 66</td> <td>56.5</td> <td>59.5</td> <td>65.3</td> <td>8.8</td> <td>No</td> <td>64.8</td> <td>8.3</td> <td>No</td>	R0674	Residential	B / 66	56.5	59.5	65.3	8.8	No	64.8	8.3	No
R0676 Residential B / 66 55.6 58.6 64.9 9.3 No 64.4 8.8 No R0677 Residential B / 66 55.4 58.4 64.7 9.3 No 64.2 8.8 No R0678 Residential B / 66 55.7 58.7 65.2 9.5 No 64.7 9.0 No R0679 Residential B / 66 52.1 55.0 61.9 9.8 No 61.5 9.4 No R0680 Residential B / 66 48.9 51.8 58.0 9.1 No 57.6 8.7 No R0681 Residential B / 66 44.6 45.9 49.3 4.7 No 48.7 4.1 No R0682 Residential B / 66 44.6 47.1 51.3 6.7 No 50.9 6.3 No R0683 Residential B / 66 44.6 47.5 51.7 7.1 No <td>R0675</td> <td>Residential</td> <td>B / 66</td> <td>56.3</td> <td>59.3</td> <td>65.5</td> <td>9.2</td> <td>No</td> <td>65.0</td> <td>8.7</td> <td>No</td>	R0675	Residential	B / 66	56.3	59.3	65.5	9.2	No	65.0	8.7	No
R0677 Residential B / 66 55.4 58.4 64.7 9.3 No 64.2 8.8 No R0678 Residential B / 66 55.7 58.7 65.2 9.5 No 64.7 9.0 No R0679 Residential B / 66 52.1 55.0 61.9 9.8 No 61.5 9.4 No R0680 Residential B / 66 48.9 51.8 58.0 9.1 No 57.6 8.7 No R0681 Residential B / 66 44.6 45.9 49.3 4.7 No 48.7 4.1 No R0682 Residential B / 66 44.6 47.1 51.3 6.7 No 50.9 6.3 No R0683 Residential B / 66 44.6 47.5 51.7 7.1 No 51.3 6.7 No R0684 Residential B / 66 44.7 47.7 51.7 7.1 No <td>R0676</td> <td>Residential</td> <td>· .</td> <td>55.6</td> <td></td> <td></td> <td>9.3</td> <td>No</td> <td></td> <td></td> <td>No</td>	R0676	Residential	· .	55.6			9.3	No			No
R0678 Residential B / 66 55.7 58.7 65.2 9.5 No 64.7 9.0 No R0679 Residential B / 66 52.1 55.0 61.9 9.8 No 61.5 9.4 No R0680 Residential B / 66 48.9 51.8 58.0 9.1 No 57.6 8.7 No R0681 Residential B / 66 44.6 45.9 49.3 4.7 No 48.7 4.1 No R0682 Residential B / 66 44.6 47.1 51.3 6.7 No 50.9 6.3 No R0683 Residential B / 66 44.6 46.6 50.2 5.6 No 49.7 5.1 No R0684 Residential B / 66 44.6 47.5 51.7 7.1 No 51.3 6.7 No R0685 Residential B / 66 45.4 48.4 52.5 7.1 No <td>R0677</td> <td>Residential</td> <td><u> </u></td> <td></td> <td></td> <td>64.7</td> <td>9.3</td> <td>No</td> <td>64.2</td> <td></td> <td>No</td>	R0677	Residential	<u> </u>			64.7	9.3	No	64.2		No
R0679 Residential B / 66 52.1 55.0 61.9 9.8 No 61.5 9.4 No R0680 Residential B / 66 48.9 51.8 58.0 9.1 No 57.6 8.7 No R0681 Residential B / 66 44.6 45.9 49.3 4.7 No 48.7 4.1 No R0682 Residential B / 66 44.6 47.1 51.3 6.7 No 50.9 6.3 No R0683 Residential B / 66 44.6 46.6 50.2 5.6 No 49.7 5.1 No R0684 Residential B / 66 44.6 47.5 51.7 7.1 No 51.3 6.7 No R0685 Residential B / 66 44.7 47.7 51.7 7.0 No 51.3 6.6 No R0686 Residential B / 66 47.4 50.4 55.2 7.8 No <td>R0678</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>No</td>	R0678										No
R0680 Residential B / 66 48.9 51.8 58.0 9.1 No 57.6 8.7 No R0681 Residential B / 66 44.6 45.9 49.3 4.7 No 48.7 4.1 No R0682 Residential B / 66 44.6 47.1 51.3 6.7 No 50.9 6.3 No R0683 Residential B / 66 44.6 46.6 50.2 5.6 No 49.7 5.1 No R0684 Residential B / 66 44.6 47.5 51.7 7.1 No 51.3 6.7 No R0685 Residential B / 66 44.7 47.7 51.7 7.0 No 51.3 6.6 No R0686 Residential B / 66 45.4 48.4 52.5 7.1 No 54.7 7.3 No R0687 Residential B / 66 47.4 50.4 55.2 7.8 No <td></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td>			<u> </u>								_
R0681 Residential B / 66 44.6 45.9 49.3 4.7 No 48.7 4.1 No R0682 Residential B / 66 44.6 47.1 51.3 6.7 No 50.9 6.3 No R0683 Residential B / 66 44.6 46.6 50.2 5.6 No 49.7 5.1 No R0684 Residential B / 66 44.6 47.5 51.7 7.1 No 51.3 6.7 No R0685 Residential B / 66 44.7 47.7 51.7 7.0 No 51.3 6.6 No R0686 Residential B / 66 45.4 48.4 52.5 7.1 No 52.0 6.6 No R0687 Residential B / 66 47.4 50.4 55.2 7.8 No 54.7 7.3 No R0688 Commercial F / 70.7 73.7 72.7 2.0 No <td>R0680</td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td>	R0680		,								_
R0682 Residential B / 66 44.6 47.1 51.3 6.7 No 50.9 6.3 No R0683 Residential B / 66 44.6 46.6 50.2 5.6 No 49.7 5.1 No R0684 Residential B / 66 44.6 47.5 51.7 7.1 No 51.3 6.7 No R0685 Residential B / 66 44.7 47.7 51.7 7.0 No 51.3 6.6 No R0686 Residential B / 66 45.4 48.4 52.5 7.1 No 52.0 6.6 No R0687 Residential B / 66 47.4 50.4 55.2 7.8 No 54.7 7.3 No R0688 Commercial F / 70.8 73.6 72.8 2.0 No 72.5 1.8 No R0699 Residential B / 66 46.3 49.0 NA NA NA											
R0683 Residential B / 66 44.6 46.6 50.2 5.6 No 49.7 5.1 No R0684 Residential B / 66 44.6 47.5 51.7 7.1 No 51.3 6.7 No R0685 Residential B / 66 44.7 47.7 51.7 7.0 No 51.3 6.6 No R0686 Residential B / 66 45.4 48.4 52.5 7.1 No 52.0 6.6 No R0687 Residential B / 66 47.4 50.4 55.2 7.8 No 54.7 7.3 No R0688 Commercial F / 70.8 73.6 72.8 2.0 No 72.6 1.8 No R0689 Commercial F / 70.7 73.7 72.7 2.0 No 72.5 1.8 No R0690 Residential B / 66 46.3 49.0 NA NA NA			<u> </u>								_
R0684 Residential B / 66 44.6 47.5 51.7 7.1 No 51.3 6.7 No R0685 Residential B / 66 44.7 47.7 51.7 7.0 No 51.3 6.6 No R0686 Residential B / 66 45.4 48.4 52.5 7.1 No 52.0 6.6 No R0687 Residential B / 66 47.4 50.4 55.2 7.8 No 54.7 7.3 No R0688 Commercial F / 70.8 73.6 72.8 2.0 No 72.6 1.8 No R0689 Commercial F / 70.7 73.7 72.7 2.0 No 72.5 1.8 No R0690 Residential B / 66 46.3 49.0 NA NA NA NA 50.7 4.4 No R0691 Commercial F / 59.3 62.4 63.1 3.8		Residential	,	_				_			_
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R0697 Commercial F/ 53.4 56.4 57.5 4.1 No 57.1 3.7 No R0698 Trail C / 66 44.6 44.6 NA NA NA 62.2 17.6 Yes											
R0698 Trail C / 66 44.6 44.6 NA NA NA 62.2 17.6 Yes											
4 RUBUU 1731 1 (766 7746 7746 NA NA NA E3E AA Na	R0699	Trail	C / 66	44.6	44.6	NA NA	NA	NA NA	53.6	9.0	No

						Alt 1			Alt 7A	
Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0700	Trail	C / 66	45.0	47.9	NA	NA	NA	53.7	8.7	No
R0701	Residential	B / 66	57.0	60.1	61.5	4.5	No	61.1	4.1	No
R0702	Residential	B / 66	57.1	60.2	61.6	4.5	No	61.3	4.2	No
R0703	Residential	B / 66	57.2	60.2	61.8	4.6	No	61.5	4.3	No
R0704	Residential	B / 66	57.4	60.4	62.0	4.6	No	61.7	4.3	No
R0705	Residential	B / 66	57.5	60.6	62.2	4.7	No	61.8	4.3	No
R0706	Residential	B / 66	48.1	51.3	53.8	5.7	No	44.6	-3.5	No
R0707	Residential	B / 66	50.0	53.3	56.0	6.0	No	46.6	-3.4	No
R0708	Commercial	F/	67.6	69.7	68.3	0.7	No	68.3	0.7	No
R0709	Commercial	F /	67.3	69.5	68.5	1.2	No	68.5	1.2	No
R0710	Commercial	F /	67.4	69.5	68.5	1.1	No	68.6	1.2	No
R0711	Commercial	F /	53.2	55.6	55.3	2.1	No	55.3	2.1	No
R0712	Commercial	F/	58.3	60.8	59.2	0.9	No	59.3	1.0	No
R0713	Commercial	F /	58.2	60.9	58.7	0.5	No	59.0	0.8	No
R0714	Commercial	F/	58.5	61.3	58.9	0.4	No	59.3	0.8	No
R0715	Commercial	F /	58.6	61.5	59.9	1.3	No	60.4	1.8	No
R0716	Commercial	F /	57.0	60.1	56.8	-0.2	No	57.2	0.2	No
R0717	Commercial	F /	54.4	57.5	60.0	5.6	No	60.2	5.8	No
R0717	Commercial	F /	53.9	56.8	61.5	7.6	No	61.6	7.7	No
R0719	Commercial	F /	57.9	61.0	60.6	2.7	No	61.2	3.3	No
R0720	Commercial	F /	47.4	50.4	52.5	5.1	No	52.6	5.2	No
R0721	Commercial	F /	52.0	55.1	54.1	2.1	No	54.7	2.7	No
R0721	Residential	B / 66	48.8	51.9	51.9	3.1	No	56.4	7.6	No
R0723	Residential	B / 66	48.4	51.5	51.7	3.3	No	55.9	7.5	No
R0724	Residential	B / 66	47.0	50.1	50.0	3.0	No	53.2	6.2	No
R0725	Residential	B / 66	46.8	49.9	49.6	2.8	No	52.8	6.0	No
R0726	Residential	B / 66	46.3	49.4	49.1	2.8	No	52.6	5.8	No
		B / 66	44.9	48.0					6.3	
R0727	Residential				46.7	1.8	No	51.2		No
R0728	Residential	B / 66	51.6	54.4	56.3	4.7	No No	49.6	-2.0 2.5	No No
R0729	Gas Station	F /	67.1	70.1	69.7	2.6	No	69.6	2.5	No
R0730	Office/Retail	E / 71	59.7	62.7	60.9	1.2	No	60.5	0.8	No
R0731	Office/Retail	E / 71	61.0	64.0	62.1	1.1	No	61.7	0.7	No
R0732	Office/Retail	E / 71	64.0	66.9	65.1	1.1	No	64.4	0.4	No
R0733	Office/Retail	E / 71	62.2	65.2	63.7	1.5	No	63.8	1.6	No
R0734	Office/Retail	E / 71	58.0	61.1	59.7	1.7	No	60.8	2.8	No
R0735	Office/Retail	E / 71	55.3	58.4	59.7	4.4	No	62.1	6.8	No
R0736	Office/Retail	E / 71	57.8	60.8	59.9	2.1	No	61.1	3.3	No



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Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0737	Office/Retail	E / 71	61.6	64.6	62.9	1.3	No	62.9	1.3	No
R0738	Office/Retail	E / 71	56.4	59.5	59.2	2.8	No	60.6	4.2	No
R0739	Office/Retail	E / 71	59.3	62.4	60.7	1.4	No	60.9	1.6	No
R0740	CVS	F /	68.4	71.4	69.1	0.7	No	68.6	0.2	No
R0741	Retail/Boat Dealer	F /	69.1	71.9	69.3	0.2	No	69.0	-0.1	No
R0742	Residential	B / 66	66.1	69.4	69.3	3.2	Yes	60.5	-5.6	No
R0743	Residential	B / 66	64.3	67.5	67.7	3.4	Yes	58.8	-5.5	No
R0744	Recreation	C / 66	58.1	61.2	61.7	3.6	No	60.9	2.8	No
R0745	Retail	F /	72.3	75.5	75.7	3.4	No	75.7	3.4	No
R0746	Residential	B / 66	56.5	59.6	57.6	1.1	No	58.3	1.8	No
R0747	Residential	B / 66	55.8	59.0	57.2	1.4	No	57.9	2.1	No
R0748	Residential	B / 66	45.2	48.4	46.8	1.6	No	47.3	2.1	No
R0749	Baseball Field	C / 66	49.1	52.1	52.4	3.3	No	51.8	2.7	No
R0750	Residential	B / 66	46.8	49.9	51.5	4.7	No	50.5	3.7	No
R0751	Residential	B / 66	53.5	56.6	56.5	3.0	No	55.9	2.4	No
R0752	Residential	B / 66	50.8	53.9	55.0	4.2	No	54.1	3.3	No
R0753	Residential	B / 66	48.0	51.1	51.8	3.8	No	51.0	3.0	No
R0754	Residentail	B / 66	50.4	53.5	54.8	4.4	No	53.8	3.4	No
R0755	Residential	B / 66	50.7	53.7	54.8	4.1	No	53.9	3.2	No
R0756	Residential	B / 66	53.8	56.9	57.8	4.0	No	57.1	3.3	No
R0757	Residential	B / 66	47.5	50.5	49.2	1.7	No	48.5	1.0	No
R0758	Residential	B / 66	47.1	50.0	48.8	1.7	No	48.1	1.0	No
R0759	Residential	B / 66	46.7	49.7	48.4	1.7	No	47.6	0.9	No
R0760	Pool	C / 66	52.2	55.4	56.1	3.9	No	55.4	3.2	No
R0761	Tennis Court	C / 66	52.6	55.7	56.5	3.9	No	55.6	3.0	No
R0762	Basketball Court	C / 66	52.7	55.8	57.0	4.3	No	56.0	3.3	No
R0763	Residential	B / 66	51.1	54.2	55.3	4.2	No	54.8	3.7	No
R0764	Residential	B / 66	51.9	55.1	56.4	4.5	No	55.8	3.9	No
R0765	Residential	B / 66	52.2	55.4	56.6	4.4	No	56.2	4.0	No
R0766	Residential	B / 66	51.9	55.1	56.3	4.4	No	55.9	4.0	No
R0767	Residential	B / 66	51.7	54.9	56.1	4.4	No	55.6	3.9	No
R0768	Residential	B / 66	50.6	53.7	55.1	4.5	No	54.2	3.6	No
R0769	Residential	B / 66	53.1	56.3	57.6	4.5	No	57.0	3.9	No
R0770	Residential	B / 66	55.4	58.6	59.5	4.1	No	58.7	3.3	No
R0771	Residential	B / 66	53.4	56.5	57.7	4.3	No	56.8	3.4	No
R0772	Residential	B / 66	48.0	51.1	51.2	3.2	No	50.5	2.5	No
R0773	Residential	B / 66	47.5	50.6	50.4	2.9	No	49.6	2.1	No



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Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0774	Residential	B / 66	44.6	47.2	46.0	1.4	No	45.8	1.2	No
R0775	Residential	B / 66	47.9	51.1	50.6	2.7	No	49.9	2.0	No
R0776	Residential	B / 66	54.7	57.9	58.9	4.2	No	56.9	2.2	No
R0777	Residential	B / 66	46.1	49.3	48.6	2.5	No	48.1	2.0	No
R0778	Residential	B / 66	52.9	56.2	57.1	4.2	No	55.0	2.1	No
R0779	Residential	B / 66	51.0	54.3	54.8	3.8	No	53.8	2.8	No
R0780	Residential	B / 66	56.7	59.5	60.7	4.0	No	60.7	4.0	No
R0781	Residential	B / 66	56.7	59.5	60.4	3.7	No	60.4	3.7	No
R0782	Residential	B / 66	47.6	50.4	49.7	2.1	No	49.8	2.2	No
R0783	Residential	B / 66	46.2	49.0	47.9	1.7	No	48.0	1.8	No
R0784	Residential	B / 66	45.8	48.6	48.1	2.3	No	48.1	2.3	No
R0785	Residential	B / 66	46.0	48.9	48.6	2.6	No	48.5	2.5	No
R0786	Residential	B / 66	51.2	54.0	55.1	3.9	No	55.0	3.8	No
R0787	Residential	B / 66	56.1	59.0	59.4	3.3	No	59.4	3.3	No
R0788	Residential	B / 66	54.1	56.9	56.9	2.8	No	56.9	2.8	No
R0789	Residential	B / 66	53.1	55.9	55.8	2.7	No	55.8	2.7	No
R0790	Residential	B / 66	48.5	51.3	52.4	3.9	No	52.4	3.9	No
R0791	Residential	B / 66	47.9	50.8	51.4	3.5	No	51.4	3.5	No
R0792	Residential	B / 66	52.0	54.8	55.8	3.8	No	55.8	3.8	No
R0793	Residential	B / 66	54.4	57.4	56.6	2.2	No	56.5	2.1	No
R0794	Residential	B / 66	53.7	56.7	55.8	2.1	No	56.0	2.3	No
R0795	Residential	B / 66	46.7	49.5	49.8	3.1	No	49.4	2.7	No
R0796	Residential	B / 66	48.7	51.5	52.6	3.9	No	51.9	3.2	No
R0797	Residential	B / 66	50.0	52.8	56.3	6.3	No	53.1	3.1	No
R0798	Residential	B / 66	49.8	52.6	52.0	2.2	No	51.8	2.0	No
R0799	Residential	B / 66	50.6	53.5	52.4	1.8	No	52.2	1.6	No
R0800	Residential	B / 66	48.6	51.5	50.4	1.8	No	50.2	1.6	No
R0801	Residential	B / 66	47.5	50.5	49.9	2.4	No	48.9	1.4	No
R0802	Residential	B / 66	44.6	46.9	46.9	2.3	No	46.3	1.7	No
R0803	Residential	B / 66	46.0	48.8	50.8	4.8	No	49.7	3.7	No
R0804	Residential	B / 66	45.9	48.7	51.1	5.2	No	49.6	3.7	No
R0805	Residential	B / 66	47.1	50.0	50.3	3.2	No	49.9	2.8	No
R0806	Residential	B / 66	45.2	48.0	47.6	2.4	No	47.3	2.1	No
R0807	Residential	B / 66	46.4	49.4	48.3	1.9	No	48.3	1.9	No
R0808	Residential	B / 66	54.1	57.1	56.5	2.4	No	56.7	2.6	No
R0809	Residential	B / 66	58.4	61.8	61.3	2.9	No	61.7	3.3	No
R0810	Church	D / 66	60.5	63.8	63.3	2.8	No	63.9	3.4	No



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Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0811	Residential	B / 66	57.4	61.0	60.9	3.5	No	61.0	3.6	No
R0812	Residential	B / 66	59.7	63.3	63.5	3.8	No	63.4	3.7	No
R0813	Residential	B / 66	62.4	65.8	66.1	3.7	Yes	66.0	3.6	Yes
R0814	Residential	B / 66	61.5	64.7	66.7	5.2	Yes	66.6	5.1	Yes
R0815	Residential	B / 66	57.8	61.0	59.1	1.3	No	59.8	2.0	No
R0816	Residential	B / 66	53.4	56.5	54.4	1.0	No	55.2	1.8	No
R0817	Residential	B / 66	51.4	54.6	52.5	1.1	No	53.2	1.8	No
R0818	Residential	B / 66	49.9	53.0	50.8	0.9	No	51.6	1.7	No
R0819	Residential	B / 66	49.1	52.3	50.0	0.9	No	50.8	1.7	No
R0820	Residential	B / 66	54.9	58.0	56.3	1.4	No	57.0	2.1	No
R0821	Residential	B / 66	53.0	56.1	54.6	1.6	No	55.2	2.2	No
R0822	Residential	B / 66	51.7	54.8	53.2	1.5	No	53.8	2.1	No
R0823	Residential	B / 66	50.8	53.9	52.3	1.5	No	52.9	2.1	No
R0824	Residential	B / 66	46.2	49.3	47.5	1.3	No	48.1	1.9	No
R0825	Residential	B / 66	46.4	49.5	47.7	1.3	No	48.3	1.9	No
R0825-1	Residential	B / 66	49.7	52.8	51.2	1.5	No	51.8	2.1	No
R0826	Residential	B / 66	46.1	49.3	47.9	1.8	No	48.4	2.3	No
R0827	Residential	B / 66	44.6	47.1	45.3	0.7	No	45.9	1.3	No
R0827	Residential	B / 66	44.6	46.2	44.6	0.7	No	45.1	0.5	No
R0829		B / 66	48.2		49.9	1.7		50.5	2.3	No
R0830	Residential	B / 66	48.9	51.3 52.1		1.7	No		2.3	_
	Residential	B / 66			50.7		No	51.2		No
R0831	Residential		49.3	52.4	51.0	1.7	No	51.6	2.3	No
R0832	Restaurant	E / 71 B / 66	51.0	54.0	60.1	9.1	No	59.4	8.4	No
R0833	Residential	· ·	50.0	53.1	53.4	3.4	No	52.8	2.8	No
R0834	Residential	B / 66	50.6	53.7	53.8	3.2	No	53.3	2.7	No
R0835	Residential	B / 66	51.5	54.6	55.0	3.5	No	54.4	2.9	No
R0836	Residential	B / 66	52.9	56.1	55.8	2.9	No	55.3	2.4	No
R0837	Residential	B / 66	54.1	57.4	58.9	4.8	No	58.2	4.1	No
R0838	Residential	B / 66	53.9	57.2	58.7	4.8	No	58.3	4.4	No
R0839	Residential	B / 66	53.8	57.1	58.6	4.8	No	58.6	4.8	No
R0840	Residential	B / 66	53.6	56.9	58.5	4.9	No	58.8	5.2	No
R0841	Residential	B / 66	53.5	56.8	58.3	4.8	No	58.9	5.4	No
R0842	Residential	B / 66	53.2	56.6	58.1	4.9	No	58.9	5.7	No
R0843	Residential	B / 66	52.7	56.1	58.0	5.3	No	59.9	7.2	No
R0844	Residential	B / 66	52.8	56.2	57.7	4.9	No	60.0	7.2	No
R0845	Residential	B / 66	52.7	56.1	57.7	5.0	No	60.1	7.4	No
R0846	Residential	B / 66	52.5	55.8	57.5	5.0	No	60.0	7.5	No



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Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0847	Residential	B / 66	45.8	48.9	48.5	2.7	No	47.7	1.9	No
R0848	Residential	B / 66	46.8	49.9	49.6	2.8	No	48.8	2.0	No
R0849	Residential	B / 66	47.4	50.5	50.1	2.7	No	49.4	2.0	No
R0850	Residential	B / 66	46.2	49.4	49.0	2.8	No	48.3	2.1	No
R0851	Residential	B / 66	47.3	50.4	50.0	2.7	No	49.3	2.0	No
R0852	Residential	B / 66	46.9	50.0	49.9	3.0	No	49.1	2.2	No
R0853	Residential	B / 66	46.5	49.7	49.2	2.7	No	48.5	2.0	No
R0854	Residential	B / 66	46.8	49.9	49.6	2.8	No	48.7	1.9	No
R0855	Residential	B / 66	46.8	49.9	49.9	3.1	No	48.7	1.9	No
R0856	Residential	B / 66	47.0	50.2	50.2	3.2	No	48.9	1.9	No
R0857	Residential	B / 66	46.7	49.8	49.4	2.7	No	48.4	1.7	No
R0858	Residential	B / 66	46.6	49.8	49.1	2.5	No	48.2	1.6	No
R0859	Residential	B / 66	46.6	49.8	49.4	2.8	No	48.3	1.7	No
R0860	Residential	B / 66	46.6	49.7	48.8	2.2	No	48.1	1.5	No
R0861	Residential	B / 66	46.4	49.6	48.6	2.2	No	47.8	1.4	No
R0862	Residential	B / 66	46.5	49.7	48.9	2.4	No	48.0	1.5	No
R0863	Residential	B / 66	45.9	49.0	48.1	2.2	No	47.0	1.1	No
R0864	Residential	B / 66	46.0	49.2	48.3	2.3	No	47.3	1.3	No
R0865	Residential	B / 66	46.1	49.3	48.4	2.3	No	47.3	1.2	No
R0866	Residential	B / 66	46.2	49.4	48.5	2.3	No	47.4	1.2	No
R0867	Residential	B / 66	46.3	49.4	48.5	2.2	No	47.4	1.1	No
R0868	Residential	B / 66	46.2	49.3	48.5	2.3	No	47.5	1.3	No
R0869	Residential	B / 66	46.6	49.8	49.0	2.4	No	47.9	1.3	No
R0870	Residential	B / 66	46.7	49.9	49.0	2.3	No	48.0	1.3	No
R0871	Residential	B / 66	46.9	50.1	49.2	2.3	No	48.1	1.2	No
R0872	Residential	B / 66	46.9	50.0	49.1	2.2	No	47.9	1.0	No
R0873	Residential	B / 66	47.1	50.3	49.4	2.3	No	48.4	1.3	No
R0874	Residential	B / 66	47.4	50.6	50.0	2.6	No	48.9	1.5	No
R0875	Residential	B / 66	47.5	50.7	50.0	2.5	No	48.9	1.4	No
R0876	Residential	B / 66	47.6	50.8	50.1	2.5	No	49.0	1.4	No
R0877	Residential	B / 66	47.4	50.5	49.7	2.3	No	48.5	1.1	No
R0878	Residential	B / 66	47.5	50.7	49.8	2.3	No	48.7	1.2	No
R0879	Residential	B / 66	47.3	50.5	49.6	2.3	No	48.2	0.9	No
R0880	Residential	B / 66	47.3	50.5	49.6	2.3	No	48.1	0.8	No
R0881	Residential	B / 66	47.7	50.9	50.0	2.3	No	48.7	1.0	No
R0882	Residential	B / 66	48.0	51.2	50.5	2.5	No	48.9	0.9	No
R0883	Residential	B / 66	48.3	51.5	51.4	3.1	No	49.5	1.2	No

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Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0884	Residential	B / 66	48.5	51.7	51.5	3.0	No	49.9	1.4	No
R0885	Residential	B / 66	48.4	51.6	51.8	3.4	No	49.6	1.2	No
R0886	Residential	B / 66	48.1	51.2	51.6	3.5	No	49.6	1.5	No
R0887	Residential	B / 66	47.1	50.3	50.3	3.2	No	49.4	2.3	No
R0888	Residential	B / 66	46.7	49.9	49.7	3.0	No	48.2	1.5	No
R0889	Residential	B / 66	46.3	49.5	49.5	3.2	No	48.1	1.8	No
R0890	Residential	B / 66	46.3	49.5	49.6	3.3	No	48.7	2.4	No
R0891	Residential	B / 66	54.7	57.5	56.6	1.9	No	56.6	1.9	No
R0892	Residential	B / 66	55.0	57.8	56.7	1.7	No	56.7	1.7	No
R0893	Residential	B / 66	54.8	57.6	56.9	2.1	No	57.0	2.2	No
R0894	Residential	B / 66	54.3	57.1	56.8	2.5	No	56.8	2.5	No
R0895	Residential	B / 66	55.8	58.6	57.7	1.9	No	57.8	2.0	No
R0896	Residential	B / 66	45.5	48.3	48.7	3.2	No	48.7	3.2	No
R0897	Residential	B / 66	46.0	48.8	50.0	4.0	No	49.9	3.9	No
R0898	Residential	B / 66	56.3	59.1	58.1	1.8	No	58.1	1.8	No
R0899	Residential	B / 66	48.2	51.0	52.2	4.0	No	52.1	3.9	No
R0900	Apartments	B / 66	48.2	50.8	52.2	4.0	No	51.9	3.7	No
R0900-1	Apartments	B / 66	48.5	51.2	52.2	3.7	No	52.0	3.5	No
R0900-2	Apartments	B / 66	50.1	52.8	53.3	3.2	No	53.1	3.0	No
R0900-3	Apartments	B / 66	51.8	54.6	54.6	2.8	No	54.5	2.7	No
R0901	Apartments	B / 66	44.6	44.6	44.6	0.0	No	44.6	0.0	No
R0901-1	Apartments	B / 66	44.6	44.6	44.6	0.0	No	44.6	0.0	No
R0901-2	Apartments	B / 66	44.6	44.6	44.6	0.0	No	44.6	0.0	No
R0901-3	Apartments	B / 66	44.6	46.7	45.6	1.0	No	45.6	1.0	No
R0902	Apartments	B / 66	47.0	49.5	49.3	2.3	No	48.9	1.9	No
R0902-1	Apartments	B / 66	46.9	49.5	48.6	1.7	No	48.4	1.5	No
R0902-2	Apartments	B / 66	48.2	50.8	49.9	1.7	No	49.8	1.6	No
R0902-3	Apartments	B / 66	49.9	52.6	52.0	2.1	No	51.9	2.0	No
R0903	Apartments	B / 66	46.7	49.2	48.6	1.9	No	48.2	1.5	No
R0903-1	Apartments	B / 66	46.6	49.1	47.5	0.9	No	47.3	0.7	No
R0903-2	Apartments	B / 66	47.6	50.1	48.6	1.0	No	48.5	0.9	No
R0903-3	Apartments	B / 66	49.1	51.7	50.6	1.5	No	50.6	1.5	No
R0904	Apartments	B / 66	45.9	48.7	50.8	4.9	No	50.6	4.7	No
R0904-1	Apartments	B / 66	46.7	49.6	51.7	5.0	No	51.5	4.8	No
R0904-2	Apartments	B / 66	49.0	51.9	52.9	3.9	No	52.7	3.7	No
R0904-3	Apartments	B / 66	51.2	54.1	54.5	3.3	No	54.3	3.1	No
R0905	Apartments	B / 66	45.0	47.8	50.1	5.1	No	49.9	4.9	No



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Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Pi (
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(
R0905-1	Apartments	B / 66	45.7	48.6	50.9	5.2	No	50.7	5.0	
R0905-2	Apartments	B / 66	48.3	51.2	52.4	4.1	No	52.2	3.9	
R0905-3	Apartments	B / 66	50.7	53.5	54.0	3.3	No	53.8	3.1	
R0906	Apartments	B / 66	44.7	47.6	49.7	5.0	No	49.5	4.8	
R0906-1	Apartments	B / 66	45.3	48.1	50.4	5.1	No	50.2	4.9	
R0906-2	Apartments	B / 66	48.0	50.8	52.0	4.0	No	51.8	3.8	
R0906-3	Apartments	B / 66	50.5	53.3	53.7	3.2	No	53.5	3.0	
R0907	Apartments	B / 66	44.6	47.0	49.1	4.5	No	48.9	4.3	
R0907-1	Apartments	B / 66	44.6	47.4	49.8	5.2	No	49.6	5.0	
R0907-2	Apartments	B / 66	47.5	50.4	51.4	3.9	No	51.2	3.7	
R0907-3	Apartments	B / 66	50.1	52.9	53.2	3.1	No	53.0	2.9	
R0908	Apartments	B / 66	46.7	49.2	48.8	2.1	No	48.4	1.7	
R0908-1	Apartments	B / 66	46.7	49.2	47.7	1.0	No	47.5	0.8	
R0908-2	Apartments	B / 66	47.5	50.0	48.6	1.1	No	48.5	1.0	
R0908-3	Apartments	B / 66	48.9	51.4	50.3	1.4	No	50.3	1.4	
R0909	Apartments	B / 66	47.3	49.8	49.5	2.2	No	49.2	1.9	
R0909-1	Apartments	B / 66	47.3	49.9	48.6	1.3	No	48.5	1.2	
R0909-2	Apartments	B / 66	48.2	50.7	49.6	1.4	No	49.6	1.4	
R0909-3	Apartments	B / 66	49.5	52.1	51.3	1.8	No	51.4	1.9	
R0910	Apartments Courtyard	C / 66	44.6	44.6	44.6	0.0	No	44.6	0.0	
R0910-1	Apartments Courtyard	C / 66	44.6	44.6	44.6	0.0	No	44.6	0.0	
R0910-2	Apartments Courtyard	C / 66	44.6	45.4	44.6	0.0	No	44.6	0.0	
R0910-3	Apartments Courtyard	C / 66	44.6	46.8	45.3	0.7	No	45.6	1.0	
R0911	Apartments	B / 66	44.6	44.6	44.6	0.0	No	44.6	0.0	
R0911-1	Apartments	B / 66	44.6	45.6	44.7	0.1	No	44.7	0.1	
R0911-2	Apartments	B / 66	45.1	47.4	46.6	1.5	No	46.5	1.4	
R0911-3	Apartments	B / 66	46.9	49.3	48.7	1.8	No	48.6	1.7	
R0912	Apartments	B / 66	44.6	44.6	44.6	0.0	No	44.6	0.0	
R0912-1	Apartments	B / 66	44.6	45.6	44.8	0.2	No	44.7	0.1	
R0912-2	Apartments	B / 66	45.2	47.5	46.9	1.7	No	46.9	1.7	
R0912-3	Apartments	B / 66	46.9	49.3	48.8	1.9	No	48.8	1.9	
R0913	Apartments	B / 66	44.6	44.6	44.6	0.0	No	44.6	0.0	
R0913-1	Apartments	B / 66	44.6	45.3	44.6	0.0	No	44.6	0.0	
R0913-1	Apartments	B / 66	45.0	47.4	46.7	1.7	No	46.7	1.7	
R0913-2	Apartments	B / 66	47.0	49.4	48.8	1.7	No	48.7	1.7	
R0914		B / 66	44.6	44.6	44.6	0.0	No	44.6	0.0	
	Apartments	B / 00	100	Call Marie Committee	NA. 3.7 -17	4, North Charlesto	7.7.2300	www.hwy	As In the second	<u> </u>

				No		Alt 1			Alt 7A	Γ
Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Pro A C
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	C
R0914-1	Apartments	B / 66	44.6	45.0	44.6	0.0	No	44.6	0.0	
R0914-2	Apartments	B / 66	44.8	47.1	46.5	1.7	No	46.5	1.7	
R0914-3	Apartments	B / 66	46.7	49.2	48.6	1.9	No	48.5	1.8	
50015	Apartments	0.100								
R0915	Courtyard Apartments	C / 66	44.6	44.6	44.6	0.0	No	44.6	0.0	
R0915-1	Courtyard	C / 66	44.6	44.6	44.6	0.0	No	44.6	0.0	
	Apartments		_		_					
R0915-2	Courtyard Apartments	C / 66	44.6	44.6	44.6	0.0	No	44.6	0.0	
R0915-3	Courtyard	C / 66	44.6	45.2	44.8	0.2	No	44.6	0.0	
R0916	Apartments	B / 66	47.9	50.4	50.0	2.1	No	49.6	1.7	
R0916-1	Apartments	B / 66	48.3	50.8	49.3	1.0	No	49.0	0.7	
R0916-2	Apartments	B / 66	49.1	51.6	50.3	1.2	No	50.1	1.0	
R0916-3	Apartments	B / 66	50.3	52.8	51.7	1.4	No	51.4	1.1	
R0917	Apartments	B / 66	48.5	51.0	50.1	1.6	No	49.8	1.3	
R0917-1	Apartments	B / 66	49.1	51.5	49.5	0.4	No	49.4	0.3	
R0917-2	Apartments	B / 66	49.8	52.3	50.5	0.7	No	50.6	0.8	
R0917-3	Apartments	B / 66	51.0	53.4	51.7	0.7	No	51.9	0.9	
R0918	Apartments	B / 66	48.5	51.0	50.0	1.5	No	49.7	1.2	
R0918-1	Apartments	B / 66	49.1	51.6	49.5	0.4	No	49.5	0.4	
R0918-2	Apartments	B / 66	50.0	52.4	50.7	0.7	No	50.9	0.9	
R0918-3	Apartments	B / 66	51.2	53.6	51.9	0.7	No	52.1	0.9	
R0919	Apartments	B / 66	49.1	51.5	50.4	1.3	No	50.1	1.0	
R0919-1	Apartments	B / 66	49.8	52.2	50.1	0.3	No	50.2	0.4	
R0919-2	Apartments	B / 66	50.8	53.2	51.4	0.6	No	51.6	0.8	
R0919-3	Apartments	B / 66	51.9	54.3	52.6	0.7	No	52.8	0.9	
R0920	Apartments	B / 66	44.6	44.6	44.6	0.0	No	44.6	0.0	
R0920-1	Apartments	B / 66	44.6	44.6	44.6	0.0	No	44.6	0.0	
R0920-2	Apartments	B / 66	44.6	46.3	45.0	0.4	No	45.0	0.4	
R0920-3	Apartments	B / 66	46.7	48.9	47.6	0.9	No	47.7	1.0	
R0921	Apartments	B / 66	52.0	54.5	53.3	1.3	No	53.2	1.2	
R0921-1	Apartments	B / 66	53.6	56.1	54.4	0.8	No	54.4	0.8	
R0921-2	Apartments	B / 66	54.8	57.3	55.8	1.0	No	55.8	1.0	
R0921-3	Apartments	B / 66	55.7	58.2	56.7	1.0	No	56.7	1.0	
R0921-3	Apartments	B / 66	44.7	46.9	46.0	1.3	No	45.9	1.0	
R0922-1	·	B / 66	46.4	48.6	47.4	1.0		47.4	1.0	
	Apartments						No No			
R0922-2	Apartments	B / 66	47.8	49.9	49.1	1.3	No No	49.0	1.2	
R0922-3	Apartments	B / 66	49.8	52.0	50.9	1.1	No	50.9	1.1	
R0923	Apartments Ston Lounty	B / 66	44.6	46.8	45.9	1.3 4, North Charlesto	No	45.8 www.hwy	1.2	

						Alt 1			Alt 7A	
Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0923-1	Apartments	B / 66	46.3	48.5	47.3	1.0	No	47.3	1.0	No
R0923-2	Apartments	B / 66	47.6	49.7	48.9	1.3	No	48.9	1.3	No
R0923-3	Apartments	B / 66	49.6	51.8	50.7	1.1	No	50.7	1.1	No
R0924	Apartments	B / 66	44.6	46.4	45.4	0.8	No	45.3	0.7	No
R0924-1	Apartments	B / 66	46.0	48.2	47.0	1.0	No	47.0	1.0	No
R0924-2	Apartments	B / 66	46.9	49.0	48.1	1.2	No	48.1	1.2	No
R0924-3	Apartments	B / 66	48.6	50.8	49.8	1.2	No	49.8	1.2	No
R0925	Apartments	B / 66	44.6	46.5	45.5	0.9	No	45.4	0.8	No
R0925-1	Apartments	B / 66	46.0	48.2	47.0	1.0	No	47.0	1.0	No
R0925-2	Apartments	B / 66	47.1	49.2	48.4	1.3	No	48.4	1.3	No
R0925-3	Apartments	B / 66	48.8	51.0	50.0	1.2	No	50.1	1.3	No
R0926	Residential	B / 66	68.8	72.5	72.3	3.5	Yes	72.3	3.5	Yes
R0927	Residential	B / 66	58.1	61.3	63.3	5.2	No	63.3	5.2	No
R0928	Residential	B / 66	58.8	62.2	62.1	3.3	No	62.1	3.3	No
R0929	Residential	B / 66	56.4	59.6	60.0	3.6	No	59.9	3.5	No
R0930	Residential	B / 66	52.1	55.4	55.5	3.4	No	55.4	3.3	No
R0931	Residential	B / 66	56.0	59.0	59.3	3.3	No	59.2	3.2	No
R0932	Residential	B / 66	58.7	61.7	61.8	3.1	No	61.7	3.0	No
R0933	Residential	B / 66	56.5	59.6	59.6	3.1	No	59.6	3.1	No
R0934	Residential	B / 66	58.3	61.4	61.1	2.8	No	61.0	2.7	No
R0935	Residential	B / 66	56.3	59.4	58.8	2.5	No	58.8	2.5	No
R0936	Residential	B / 66	57.1	60.2	59.5	2.4	No	59.5	2.4	No
R0937	Residential	B / 66	57.4	60.5	59.5	2.1	No	59.6	2.2	No
R0938	Residential	B / 66	58.0	61.1	59.5	1.5	No	59.5	1.5	No
R0939	Residential	B / 66	57.7	60.7	59.0	1.3	No	58.9	1.2	No
R0940	Residential	B / 66	64.8	68.2	65.3	0.5	No	65.1	0.3	No
R0941	Residential	B / 66	65.1	67.9	64.8	-0.3	No	64.3	-0.8	No
R0942	Residential	B / 66	58.5	61.6	59.5	1.0	No	59.4	0.9	No
R0943	Residential	B / 66	55.9	59.0	57.3	1.4	No	57.2	1.3	No
R0944	Residential	B / 66	58.3	61.1	57.8	-0.5	No	57.4	-0.9	No
R0945	Residential	B / 66	57.8	60.1	58.2	0.4	No	58.2	0.4	No
R0946	Residential	B / 66	54.2	56.6	54.0	-0.2	No	54.1	-0.1	No
R0947	Residential	B / 66	57.2	59.5	58.2	1.0	No	58.4	1.2	No
R0948	Residential	B / 66	58.4	60.5	59.7	1.3	No	59.4	1.0	No
R0949	Residential	B / 66	54.5	56.4	56.5	2.0	No	56.3	1.8	No
R0950	Restaurant/Patio	E / 71	66.5	68.6	69.4	2.9	No	69.4	2.9	No
R0951	Residential	B / 66	45.3	48.1	48.2	2.9	No	48.2	2.9	No



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		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R0952	Residential	B / 66	45.8	48.7	48.5	2.7	No	48.5	2.7	No
R0953	Residential	B / 66	44.6	47.3	46.6	2.0	No	46.6	2.0	No
R0954	Residential	B / 66	49.3	52.2	52.3	3.0	No	52.3	3.0	No
R0955	Residential	B / 66	50.1	52.9	53.0	2.9	No	53.1	3.0	No
R0956	Residential	B / 66	49.9	52.7	52.0	2.1	No	52.0	2.1	No
R0957	Residential	B / 66	49.5	52.3	51.5	2.0	No	51.4	1.9	No
R0958-1	Residential	B / 66	57.1	62.4	NA	NA	NA	62.3	5.2	No
R0959-1	Residential	B / 66	58.0	63.3	NA	NA	NA	61.1	3.1	No
R0960-1	Residential	B / 66	57.9	63.2	NA	NA	NA	59.3	1.4	No
R0961-1	Residential	B / 66	57.9	63.3	NA	NA	NA	58.5	0.6	No
R0962-1	Residential	B / 66	57.9	63.3	NA	NA	NA	57.6	-0.3	No
R0963-1	Residential	B / 66	44.6	44.6	NA	NA	NA	49.8	5.2	No
R0964-1	Residential	B / 66	44.6	44.6	NA	NA	NA	46.1	1.5	No
R0965-1	Residential	B / 66	44.6	44.6	NA	NA	NA	45.3	0.7	No
R0966-1	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0967-1	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0968-1	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0969	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0970	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0971	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0972	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0973	Residential	B / 66	44.6	44.6	NA	NA	NA	44.6	0.0	No
R0974	Residential	B / 66	44.6	44.6	NA	NA	NA	48.8	4.2	No
R0975	Residential	B / 66	44.6	44.6	NA	NA	NA	50.4	5.8	No
R0976	Residential	B / 66	44.6	44.6	NA	NA	NA	49.6	5.0	No
R0977	Residential	B / 66	44.6	47.6	NA	NA	NA	56.2	11.6	No
R0978	Residential	B / 66	44.6	44.7	NA	NA	NA	55.8	11.2	No
R0979	Residential	B / 66	44.6	44.6	NA	NA	NA	51.6	7.0	No
R0980	Residential	B / 66	44.6	44.6	NA	NA	NA	54.3	9.7	No
R0981	Residential	B / 66	44.6	45.2	NA	NA	NA	55.7	11.1	No
R0982-1	Residential	B / 66	44.6	44.6	NA	NA	NA	59.2	14.6	No
R0983-1	Residential	B / 66	44.6	44.6	NA	NA	NA	58.0	13.4	No
R0984-1	Residential	B / 66	44.6	44.6	NA	NA	NA	57.2	12.6	No
R0985-1	Residential	B / 66	44.6	44.6	NA	NA	NA	56.6	12.0	No
R0986-1	Residential	B / 66	44.6	44.6	NA	NA	NA	56.0	11.4	No
R0987	Residential	B / 66	46.5	49.6	NA	NA	NA	55.9	9.4	No
R0988	Residential	B / 66	44.6	44.7	NA	NA	NA	53.6	9.0	No



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		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	
R0989	Residential	B / 66	44.6	44.6	NA	NA	NA	55.7	11.1	No	
R0990	Residential	B / 66	44.6	45.3	NA	NA	NA	59.4	14.8	No	
R0991	Residential	B / 66	44.6	45.4	NA	NA	NA	62.5	17.9	Yes	
R0992	Residential	B / 66	50.0	52.8	52.6	2.6	No	52.6	2.6	No	
R0992-1	Residential	B / 66	53.3	56.1	56.0	2.7	No	56.0	2.7	No	
R0993	Residential	B / 66	49.0	51.8	51.5	2.5	No	51.4	2.4	No	
R0993-1	Residential	B / 66	52.0	54.8	54.9	2.9	No	54.9	2.9	No	
R0994	Residential	B / 66	48.5	51.3	50.8	2.3	No	50.8	2.3	No	
R0994-1	Residential	B / 66	51.5	54.3	54.4	2.9	No	54.4	2.9	No	
R0995	Residential	B / 66	47.1	49.9	49.3	2.2	No	49.3	2.2	No	
R0995-1	Residential	B / 66	50.2	53.0	53.2	3.0	No	53.2	3.0	No	
R0996	Residential	B / 66	49.1	51.9	51.6	2.5	No	51.6	2.5	No	
R0996-1	Residential	B / 66	52.4	55.2	55.2	2.8	No	55.2	2.8	No	
R0997	Residential	B / 66	49.5	52.3	52.0	2.5	No	52.0	2.5	No	
R0997-1	Residential	B / 66	52.8	55.6	55.5	2.7	No	55.5	2.7	No	
R0998	Residential	B / 66	49.7	52.5	52.3	2.6	No	52.3	2.6	No	
R0998-1	Residential	B / 66	53.1	55.8	55.8	2.7	No	55.8	2.7	No	
R0999	Residential	B / 66	49.9	52.7	52.5	2.6	No	52.5	2.6	No	
R0999-1	Residential	B / 66	53.2	56.0	55.9	2.7	No	55.9	2.7	No	
R1000	Residential	B / 66	50.2	53.0	52.8	2.6	No	52.8	2.6	No	
R1000-1	Residential	B / 66	53.4	56.3	56.1	2.7	No	56.1	2.7	No	
R1001	Residential	B / 66	55.4	58.2	56.4	1.0	No	56.4	1.0	No	
R1001-1	Residential	B / 66	57.4	60.2	58.4	1.0	No	58.4	1.0	No	
R1002	Residential	B / 66	52.4	55.2	54.6	2.2	No	54.6	2.2	No	
R1002-1	Residential	B / 66	55.0	57.9	56.7	1.7	No	56.7	1.7	No	
R1003	Residential	B / 66	51.2	54.0	53.7	2.5	No	53.8	2.6	No	
R1003-1	Residential	B / 66	54.0	56.8	56.0	2.0	No	56.0	2.0	No	
R1004	Residential	B / 66	50.4	53.2	53.2	2.8	No	53.2	2.8	No	
R1004-1	Residential	B / 66	53.4	56.3	55.7	2.3	No	55.7	2.3	No	
R1005	Residential	B / 66	49.8	52.6	52.7	2.9	No	52.7	2.9	No	
R1005-1	Residential	B / 66	53.0	55.8	55.3	2.3	No	55.3	2.3	No	
R1006	Residential	B / 66	50.9	53.7	53.2	2.3	No	53.3	2.4	No	
R1006-1	Residential	B / 66	54.0	56.8	56.3	2.3	No	56.3	2.3	No	
R1007	Residential	B / 66	49.9	52.7	52.2	2.3	No	52.2	2.3	No	
R1007-1	Residential	B / 66	52.9	55.7	55.3	2.4	No	55.3	2.4	No	
R1008	Residential	B / 66	49.5	52.3	51.6	2.1	No	51.6	2.1	No	
R1008-1	Residential	B / 66	52.4	55.2	54.8	2.4	No	54.8	2.4	No	

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		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R1009	Residential	B / 66	48.9	51.7	51.4	2.5	No	51.3	2.4	No
R1009-1	Residential	B / 66	51.8	54.6	54.5	2.7	No	54.5	2.7	No
R1010	Residential	B / 66	48.5	51.3	51.0	2.5	No	51.0	2.5	No
R1010-1	Residential	B / 66	51.4	54.2	54.2	2.8	No	54.2	2.8	No
R1011	Residential	B / 66	48.2	50.9	50.8	2.6	No	50.8	2.6	No
R1011-1	Residential	B / 66	51.1	53.9	53.9	2.8	No	53.9	2.8	No
R1012	Residential	B / 66	47.8	50.6	50.5	2.7	No	50.5	2.7	No
R1012-1	Residential	B / 66	51.0	53.7	53.8	2.8	No	53.8	2.8	No
R1013	Residential	B / 66	47.4	50.2	50.1	2.7	No	50.0	2.6	No
R1013-1	Residential	B / 66	50.5	53.3	53.2	2.7	No	53.2	2.7	No
R1014	Residential	B / 66	47.3	50.1	49.7	2.4	No	49.7	2.4	No
R1014-1	Residential	B / 66	50.2	53.0	52.8	2.6	No	52.8	2.6	No
R1015	Residential	B / 66	46.8	49.6	49.4	2.6	No	49.4	2.6	No
R1015-1	Residential	B / 66	49.7	52.5	52.5	2.8	No	52.5	2.8	No
R1016	Residential	B / 66	46.3	49.1	49.0	2.7	No	49.0	2.7	No
R1016-1	Residential	B / 66	49.2	52.0	52.1	2.9	No	52.0	2.8	No
R1017	Residential	B / 66	45.9	48.6	48.6	2.7	No	48.4	2.5	No
R1017-1	Residential	B / 66	48.7	51.5	51.6	2.9	No	51.6	2.9	No
R1018	Residential	B / 66	45.3	48.0	48.0	2.7	No	47.9	2.6	No
R1018-1	Residential	B / 66	47.8	50.6	50.9	3.1	No	50.8	3.0	No
R1019	Residential	B / 66	44.6	47.3	46.8	2.2	No	46.7	2.1	No
R1019-1	Residential	B / 66	46.9	49.6	50.0	3.1	No	49.9	3.0	No
R1020	Residential	B / 66	44.6	47.2	46.5	1.9	No	46.4	1.8	No
R1020-1	Residential	B / 66	46.5	49.2	49.6	3.1	No	49.5	3.0	No
R1021	Residential	B / 66	44.6	47.2	46.4	1.8	No	46.3	1.7	No
R1021-1	Residential	B / 66	46.4	49.1	49.4	3.0	No	49.3	2.9	No
R1022	Residential	B / 66	44.6	47.0	46.2	1.6	No	46.0	1.4	No
R1022-1	Residential	B / 66	46.1	48.8	49.0	2.9	No	49.0	2.9	No
R1023	Residential	B / 66	44.6	47.2	46.2	1.6	No	46.1	1.5	No
R1023-1	Residential	B / 66	46.1	48.7	48.8	2.7	No	48.8	2.7	No
R1024	Residential	B / 66	50.1	52.9	52.5	2.4	No	52.5	2.4	No
R1024-1	Residential	B / 66	53.1	55.9	54.9	1.8	No	54.9	1.8	No
R1025	Residential	B / 66	49.7	52.5	52.1	2.4	No	52.0	2.3	No
R1025-1	Residential	B / 66	52.6	55.4	54.3	1.7	No	54.3	1.7	No
R1026	Residential	B / 66	49.1	51.9	51.6	2.5	No	51.6	2.5	No
R1026-1	Residential	B / 66	52.2	55.0	53.9	1.7	No	53.9	1.7	No
R1027	Residential	B / 66	48.7	51.5	51.1	2.4	No	51.0	2.3	No

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		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R1027-1	Residential	B / 66	51.7	54.6	53.4	1.7	No	53.4	1.7	No
R1028	Residential	B / 66	48.2	51.0	50.6	2.4	No	50.6	2.4	No
R1028-1	Residential	B / 66	51.3	54.1	53.0	1.7	No	53.0	1.7	No
R1029	Residential	B / 66	47.6	50.4	50.2	2.6	No	50.2	2.6	No
R1029-1	Residential	B / 66	50.8	53.6	52.7	1.9	No	52.6	1.8	No
R1030	Residential	B / 66	46.6	49.4	49.4	2.8	No	49.3	2.7	No
R1030-1	Residential	B / 66	49.7	52.5	51.9	2.2	No	51.9	2.2	No
R1031	Residential	B / 66	46.4	49.1	49.1	2.7	No	49.0	2.6	No
R1031-1	Residential	B / 66	49.3	52.1	51.6	2.3	No	51.5	2.2	No
R1032	Residential	B / 66	46.1	48.9	48.8	2.7	No	48.7	2.6	No
R1032-1	Residential	B / 66	49.0	51.8	51.4	2.4	No	51.3	2.3	No
R1033	Residential	B / 66	45.8	48.6	48.4	2.6	No	48.3	2.5	No
R1033-1	Residential	B / 66	48.8	51.6	51.2	2.4	No	51.1	2.3	No
R1034	Residential	B / 66	45.6	48.3	48.3	2.7	No	48.1	2.5	No
R1034-1	Residential	B / 66	48.4	51.2	51.0	2.6	No	50.9	2.5	No
R1035	Residential	B / 66	45.6	48.2	48.1	2.5	No	47.9	2.3	No
R1035-1	Residential	B / 66	48.1	50.9	50.8	2.7	No	50.7	2.6	No
R1036	Residential	B / 66	44.6	46.7	45.5	0.9	No	45.3	0.7	No
R1037	Residential	B / 66	44.6	44.6	44.6	0.0	No	44.6	0.0	No
R1038	Residential	B / 66	44.6	46.6	45.9	1.3	No	45.7	1.1	No
R1039	Residential	B / 66	44.6	45.4	45.8	1.2	No	44.7	0.1	No
R1040	Residential	B / 66	45.7	48.4	48.0	2.3	No	48.0	2.3	No
R1041	Residential	B / 66	47.5	50.3	49.5	2.0	No	49.5	2.0	No
R1042	Residential	B / 66	46.0	48.8	47.5	1.5	No	47.6	1.6	No
R1043	Residential	B / 66	44.9	47.7	46.8	1.9	No	46.8	1.9	No
R1044	Residential	B / 66	44.6	45.3	44.6	0.0	No	44.6	0.0	No
R1045	Residential	B / 66	44.6	46.2	46.7	2.1	No	44.9	0.3	No
R1046	Residential	B / 66	57.0	60.2	60.3	3.3	No	60.3	3.3	No
R1047	Restaurant/Patio	E / 71	58.5	60.6	61.2	2.7	No	61.2	2.7	No
R1048	Bank	F /	70.5	73.5	74.0	3.5	No	74.0	3.5	No
R1049	Car Wash	F /	69.5	73.3	70.6	1.1	No	70.4	0.9	No
R1050	Office	E / 71	69.1	71.2	70.4	1.3	No	70.4	1.3	No
R1051	Office	E / 71	59.8	61.9	62.3	2.5	No	62.3	2.5	No
R1052	Commercial	F /	56.9	59.0	59.1	2.2	No	59.1	2.2	No
D4053	Ace Hardware/Comme	F /	62.2	CE 4	65.0	4.7	N/-	64.0	1.5	NJ-
R1053	rcial	F/	63.3	65.4	65.0	1.7	No	64.9	1.6	No
R1054	Restaurant/Retail	E / 71	57.4	60.7	60.9	3.5	No	58.5	1.1	No

Receiver ID Receiver Description Receiv							Alt 1			Alt 7A	
R1055 Residential B / 66 49.3 52.3 53.8 4.8 No 56.5 7.5 No No R1058 Residential B / 66 49.0 52.3 53.8 4.8 No 56.5 7.5 No R1058 Residential B / 66 49.1 52.4 54.4 No 56.5 7.5 No R1058 Residential B / 66 49.1 52.4 54.4 S.3 No 57.3 8.2 No R1059 Residential B / 66 49.1 52.4 54.4 S.3 No 57.3 8.2 No R1059 Residential B / 66 49.1 52.4 54.4 S.3 No 57.3 8.2 No R1050 Residential B / 66 49.1 52.7 54.7 5.3 No 57.6 8.2 No R1060 Residential B / 66 49.8 53.1 55.2 54.4 No 58.0 8.2 No R1061 Residential B / 66 51.5 54.9 56.7 5.2 No 59.6 8.1 No R1062 Residential B / 66 51.5 54.9 56.7 5.2 No 59.6 8.1 No R1064 Residential B / 66 52.2 55.5 57.2 5.0 No 60.1 7.9 No R1066 Residential B / 66 44.6 44.6 44.8 3.3 No 47.7 3.1 No R1066 Residential B / 66 44.6	Receiver ID	Receiver Description	Category /	_	Action	Action	Action	Action Causes	Action	Action	Action Causes
R1056 Residential B 66 49.3 52.3 54.7 5.4 No 54.2 4.9 No R1057 Residential B 66 49.0 52.3 53.8 4.8 No 56.5 7.5 No R1058 Residential B 66 49.3 52.5 54.1 4.8 No 56.9 7.6 No R1059 Residential B 66 49.1 52.4 54.4 5.3 No 57.3 8.2 No R1050 Residential B 66 49.4 52.7 54.7 5.3 No 57.3 8.2 No R1060 Residential B 66 49.8 53.1 55.2 5.4 No 58.0 8.2 No R1061 Residential B 66 51.0 54.3 56.2 5.2 No 59.1 8.1 No R1063 Residential B 66 51.5 54.9 56.7 5.2 No 59.6 8.1 No R1063 Residential B 66 52.2 55.5 57.2 5.0 No 60.1 7.9 No R1064 Residential B 66 44.6 44.6 44.8 3.3 3.7 No 47.7 3.1 No R1066 Residential B 66 44.6 44.6 44.8 3.3 3.7 No 47.7 3.1 No R1066 Residential B 66 44.6 44.6 44.8 3.3 No 44.8 3.9 No 48.0 3.4 No R1066 Residential B 66 44.6 44.6 44.8 3.3 No 44.8 3.9 No 44.8 3.9 No 48.0 3.4 No R1068 Residential B 66 44.6 44.6 44.8 3.3 No			(dBA)	L _{eq} (dBA)		L _{eq} (dBA)	From Existing		L _{eq} (dBA)	From Existing	
R1057 Residential B 66 49.0 52.3 53.8 4.8 No 56.5 7.5 No R1058 Residential B 66 49.3 52.5 54.1 4.8 No 56.9 7.6 No R1059 Residential B 66 49.1 52.4 54.4 5.3 No 57.3 8.2 No R1060 Residential B 66 49.4 52.7 54.7 5.3 No 57.6 8.2 No R1061 Residential B 66 49.8 53.1 55.2 5.4 No 58.0 8.2 No R1061 Residential B 66 51.0 54.3 56.2 5.2 No 59.1 8.1 No R1062 Residential B 66 51.0 54.3 56.2 5.2 No 59.6 8.1 No R1064 Residential B 66 51.5 54.9 56.7 5.2 No 59.6 8.1 No R1064 Residential B 66 52.2 55.5 57.2 5.0 No 60.1 7.9 No R1066 Residential B 66 44.6 44.5 44.5 3.9 No 54.6 8.1 No R1066 Residential B 66 44.6 44.6 48.3 3.7 No 47.7 3.1 No R1067 Residential B 66 44.6 44.6 48.5 3.9 No 44.6 0.0 No 44.6 0.0 No R1070 Residential B 66 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No 44.6 0.0 No R1070 Residential B 66 44.6 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1070 Residential B 66 44.6 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1070 Residential B 66 44.6 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1071 Residential B 66 44.6 44.6 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No No R1073 Residential B 66 44.6 44.6 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No No R1073 Residential B 66 44.6 44.6 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No No R1073 Residential B 66 44.6 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No No R1073 Residential B 66 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No No No No No No No N	R1055	Residential	B / 66	52.2	55.3	59.4	7.2	No	58.9	6.7	No
R1058 Residential B / 66 49.3 52.5 54.1 4.8 No 56.9 7.6 No R1059 Residential B / 66 49.1 52.4 54.4 5.3 No 57.3 8.2 No R1060 Residential B / 66 49.4 52.7 54.7 5.3 No 57.6 8.2 No R1061 Residential B / 66 49.8 53.1 55.2 5.4 No 58.0 8.2 No R1061 Residential B / 66 51.0 54.3 56.2 5.2 No 59.1 8.1 No R1063 Residential B / 66 51.5 54.9 56.7 5.2 No 59.6 8.1 No R1064 Residential B / 66 52.2 55.5 57.2 5.0 No 60.1 7.9 No R1064 Residential B / 66 46.5 49.5 55.0 8.5 No 54.6 8.1 No R1066 Residential B / 66 44.6 44.6 44.6 48.3 3.7 No 47.7 3.1 No R1066 Residential B / 66 44.6 44.6 48.3 3.7 No 47.7 3.1 No R1067 Residential B / 66 44.6	R1056	Residential	B / 66	49.3	52.3	54.7	5.4	No	54.2	4.9	No
R1059 Residential B 66 49.1 52.4 54.4 5.3 No 57.3 8.2 No R1060 Residential B 66 49.4 52.7 54.7 5.3 No 57.6 8.2 No R1061 Residential B 66 49.8 53.1 55.2 5.4 No 58.0 8.2 No R1062 Residential B 66 51.5 54.3 56.2 5.2 No 59.1 8.1 No R1063 Residential B 66 51.5 54.3 56.2 5.2 No 59.6 8.1 No R1064 Residential B 66 51.5 54.9 56.7 5.2 No 59.6 8.1 No R1064 Residential B 66 52.2 55.5 57.2 5.0 No 60.1 7.9 No R1065 Residential B 66 46.5 49.5 55.0 8.5 No 54.6 8.1 No R1066 Residential B 66 44.6 44.9 49.0 4.4 No 44.5 3.9 No R1067 Residential B 66 44.6 44.9 49.0 4.4 No 44.5 3.9 No R1069 Residential B 66 44.6 44.6 44.5 3.9 No 48.6 4.0 No R1069 Residential B 66 44.6 44.6 44.6 44.5 3.9 No 44.6 40.0 No R1070 Residential B 66 44.6 44.6 44.5 44.5 3.9 No 48.6 4.0 No R1071 Residential B 66 44.6 44.6 44.6 44.5 44.5 No 44.6 40.0 No R1071 Residential B 66 44.6 44.6 44.6 45.7 1.1 No 45.1 0.5 No R1072 Residential B 66 44.6 44.6 45.7 1.1 No 45.1 0.5 No R1073 Residential B 66 44.6 44.6 45.7 1.1 No 45.1 0.5 No R1074 Residential B 66 44.6 44.6 44.6 45.7 1.1 No 45.1 0.0 No R1075 Residential B 66 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1076 Residential B 66 44.6 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1077 Residential B 66 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1077 Residential B 66 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No A4.6 0.0 No A4.6 0.0 No A4.6 0.0 No A4.6 0.0 No A4.6 0.0 No A4.6 0.0 No A4.6 0.0 No A4.6 0.0 No A4.6 0.0 No A4.6 0.0 No A4.6 0.	R1057	Residential	B / 66	49.0	52.3	53.8	4.8	No	56.5	7.5	No
R1060 Residential B / 66 49.4 52.7 54.7 5.3 No 57.6 8.2 No R1061 Residential B / 66 49.8 53.1 55.2 5.4 No 58.0 8.2 No R1062 Residential B / 66 51.0 54.3 56.2 5.2 No 59.1 8.1 No R1063 Residential B / 66 51.5 54.9 56.7 5.2 No 59.6 8.1 No R1064 Residential B / 66 52.2 55.5 57.2 5.0 No 60.1 7.9 No R1065 Residential B / 66 46.5 49.5 55.0 8.5 No 54.6 8.1 No R1066 Residential B / 66 44.6 44.6 44.8 3.7 No 47.7 3.1 No R1067 Residential B / 66 44.6 44.6 44.8 3.7 No 47.7 3.1 No R1068 Residential B / 66 44.6 44.6 44.5 3.9 No 48.0 3.4 No R1069 Residential B / 66 44.6 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No 44.6 0.0 No 44.6 0.0 No R1070 Residential B / 66 44.6 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1071 Residential B / 66 44.6 4	R1058	Residential	B / 66	49.3	52.5	54.1	4.8	No	56.9	7.6	No
R1061 Residential B / 66 49.8 53.1 55.2 5.4 No 58.0 8.2 No R1062 Residential B / 66 51.0 54.3 56.2 5.2 No 59.1 8.1 No R1063 Residential B / 66 51.5 54.9 56.7 5.2 No 59.6 8.1 No R1064 Residential B / 66 52.2 55.5 57.2 5.0 No 60.1 7.9 No R1065 Residential B / 66 44.6 44.5 44.5 44.5 44.5 44.6 44	R1059	Residential	B / 66	49.1	52.4	54.4	5.3	No	57.3	8.2	No
R1062 Residential B / 66 51.0 54.3 56.2 5.2 No 59.1 8.1 No R1063 Residential B / 66 51.5 54.9 56.7 5.2 No 59.6 8.1 No R1064 Residential B / 66 52.2 55.5 57.2 5.0 No 60.1 7.9 No R1065 Residential B / 66 44.5 44.5 44.5 43.5 55.0 8.5 No 54.6 8.1 No R1066 Residential B / 66 44.6 44.6 44.8 3.7 No 47.7 3.1 No R1067 Residential B / 66 44.6 44.6 44.8 3.7 No 47.7 3.1 No R1068 Residential B / 66 44.6 44.6 44.5 3.9 No 48.0 3.4 No R1069 Residential B / 66 44.6 44.6 44.5 3.9 No 48.0 3.4 No R1069 Residential B / 66 44.6 44.6 44.5 44.5 No 44.6 44	R1060	Residential	B / 66	49.4	52.7	54.7	5.3	No	57.6	8.2	No
R1063 Residential B / 66 51.5 54.9 56.7 5.2 No 59.6 8.1 No R1064 Residential B / 66 52.2 55.5 57.2 5.0 No 60.1 7.9 No R1065 Residential B / 66 46.5 49.5 55.0 8.5 No 54.6 8.1 No R1066 Residential B / 66 44.6 44.6 48.3 3.7 No 47.7 3.1 No R1067 Residential B / 66 44.6 44.9 49.0 4.4 No 48.5 3.9 No R1068 Residential B / 66 44.6 44.6 44.6 44.5 3.9 No 48.0 3.4 No R1069 Residential B / 66 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1070 Residential B / 66 44.6 44.6 44.6 44.5 No 48.6 4.0 No R1071 Residential B / 66 44.6 44.6 44.6 45.7 1.1 No 45.1 0.5 No R1073 Residential B / 66 44.6 44.6 44.6 45.7 1.1 No 45.1 0.5 No R1073 Residential B / 66 44.6 44.6 44.6 45.2 0.6 No 44.6 0.0 No R1074 Residential B / 66 44.6 44.6 44.6 45.8 1.2 No 45.3 0.7 No R1074 Residential B / 66 44.6 44.6 44.6 45.8 1.2 No 45.3 0.7 No R1075 Residential B / 66 44.6 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1076 Residential B / 66 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1077 Residential B / 66 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1078 Residential B / 66 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1078 Residential B / 66 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1078 Residential B / 66 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1081 Residential B / 66 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1081 Residential B / 66 44.6 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1082 Residential B / 66 44.	R1061	Residential	B / 66	49.8	53.1	55.2	5.4	No	58.0	8.2	No
R1064 Residential B / 66 52.2 55.5 57.2 5.0 No 60.1 7.9 No R1065 Residential B / 66 46.5 49.5 55.0 8.5 No 54.6 8.1 No R1066 Residential B / 66 44.6 44.6 48.3 3.7 No 47.7 3.1 No R1067 Residential B / 66 44.6 44.6 44.6 44.6 44.6 44.6 44.6 44.6 44.6 44.6 44.6 44.6 0.0 No 44.6 0.0 <td>R1062</td> <td>Residential</td> <td>B / 66</td> <td>51.0</td> <td>54.3</td> <td>56.2</td> <td>5.2</td> <td>No</td> <td>59.1</td> <td>8.1</td> <td>No</td>	R1062	Residential	B / 66	51.0	54.3	56.2	5.2	No	59.1	8.1	No
R1065 Residential B / 66 46.5 49.5 55.0 8.5 No 54.6 8.1 No R1066 Residential B / 66 44.6 44.6 48.3 3.7 No 47.7 3.1 No R1067 Residential B / 66 44.6 44.9 49.0 4.4 No 48.5 3.9 No R1068 Residential B / 66 44.6 44.6 48.5 3.9 No 48.0 3.4 No R1069 Residential B / 66 44.6 44.6 40.0 No 44.6 0.0 No 48.6 4.0 No 44.6 0.0 No 48.6 4.0 No 14.6 0.0 No R8.6 4.0 0.0 No 44.6 0.0 No 44.6 0.	R1063	Residential	B / 66	51.5	54.9	56.7	5.2	No	59.6	8.1	No
R1066 Residential B / 66 44.6 44.6 48.3 3.7 No 47.7 3.1 No R1067 Residential B / 66 44.6 44.9 49.0 4.4 No 48.5 3.9 No R1068 Residential B / 66 44.6 44.6 48.5 3.9 No 48.0 3.4 No R1069 Residential B / 66 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1070 Residential B / 66 44.6 44.6 44.5 No 48.6 4.0 No R1071 Residential B / 66 44.6 44.6 45.7 1.1 No 46.1 1.5 No R1072 Residential B / 66 44.6 44.6 45.7 1.1 No 45.1 0.5 No R1073 Residential B / 66 44.6 44.6 45.2 0.6 No 44.6 </td <td>R1064</td> <td>Residential</td> <td>B / 66</td> <td>52.2</td> <td>55.5</td> <td>57.2</td> <td>5.0</td> <td>No</td> <td>60.1</td> <td>7.9</td> <td>No</td>	R1064	Residential	B / 66	52.2	55.5	57.2	5.0	No	60.1	7.9	No
R1067 Residential B / 66 44.6 44.9 49.0 4.4 No 48.5 3.9 No R1068 Residential B / 66 44.6 44.6 48.5 3.9 No 48.0 3.4 No R1069 Residential B / 66 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1070 Residential B / 66 44.6 44.9 49.1 4.5 No 48.6 4.0 No R1071 Residential B / 66 44.6 44.6 45.7 1.1 No 45.1 0.5 No R1072 Residential B / 66 44.6 44.6 45.7 1.1 No 45.1 0.5 No R1073 Residential B / 66 44.6 44.6 45.2 0.6 No 44.6 0.0 No R1074 Residential B / 66 44.6 44.6 45.8 1.2 No <td>R1065</td> <td>Residential</td> <td>B / 66</td> <td>46.5</td> <td>49.5</td> <td>55.0</td> <td>8.5</td> <td>No</td> <td>54.6</td> <td>8.1</td> <td>No</td>	R1065	Residential	B / 66	46.5	49.5	55.0	8.5	No	54.6	8.1	No
R1068 Residential B / 66 44.6 44.6 48.5 3.9 NO 48.0 3.4 NO R1069 Residential B / 66 44.6 44.6 44.6 0.0 NO 44.6 0.0 NO R1070 Residential B / 66 44.6 44.9 49.1 4.5 NO 48.6 4.0 NO R1071 Residential B / 66 44.6 44.6 46.7 2.1 NO 46.1 1.5 NO R1072 Residential B / 66 44.6 44.6 45.7 1.1 NO 45.1 0.5 NO R1073 Residential B / 66 44.6 44.6 45.2 0.6 NO 44.6 0.0 NO R1074 Residential B / 66 44.6 44.6 45.8 1.2 NO 45.3 0.7 NO R1075 Residential B / 66 44.6 44.6 44.6 40.4 0.0<	R1066	Residential	B / 66	44.6	44.6	48.3	3.7	No	47.7	3.1	No
R1068 Residential B / 66 44.6 44.6 48.5 3.9 NO 48.0 3.4 NO R1069 Residential B / 66 44.6 44.6 44.6 0.0 NO 44.6 0.0 NO R1070 Residential B / 66 44.6 44.9 49.1 4.5 NO 48.6 4.0 NO R1071 Residential B / 66 44.6 44.6 46.7 2.1 NO 46.1 1.5 NO R1072 Residential B / 66 44.6 44.6 45.7 1.1 NO 45.1 0.5 NO R1073 Residential B / 66 44.6 44.6 45.2 0.6 NO 44.6 0.0 NO R1074 Residential B / 66 44.6 44.6 45.8 1.2 NO 45.3 0.7 NO R1075 Residential B / 66 44.6 44.6 44.6 40.4 0.0<	R1067	Residential	B / 66	44.6	44.9	49.0	4.4	No	48.5	3.9	No
R1069 Residential B / 66 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1070 Residential B / 66 44.6 44.9 49.1 4.5 No 48.6 4.0 No R1071 Residential B / 66 44.6 44.6 46.7 2.1 No 46.1 1.5 No R1072 Residential B / 66 44.6 44.6 45.7 1.1 No 45.1 0.5 No R1073 Residential B / 66 44.6 44.6 45.2 0.6 No 44.6 0.0 No R1074 Residential B / 66 44.6 44.6 45.8 1.2 No 45.3 0.7 No R1075 Residential B / 66 44.6 44.6 46.4 1.8 No 45.7 1.1 No R1076 Residential B / 66 44.6 44.6 44.6 0.0 No <td>R1068</td> <td>Residential</td> <td>· .</td> <td>44.6</td> <td>44.6</td> <td></td> <td>3.9</td> <td>No</td> <td></td> <td></td> <td>No</td>	R1068	Residential	· .	44.6	44.6		3.9	No			No
R1070 Residential B / 66 44.6 44.9 49.1 4.5 No 48.6 4.0 No R1071 Residential B / 66 44.6 44.6 46.7 2.1 No 46.1 1.5 No R1072 Residential B / 66 44.6 44.6 45.7 1.1 No 45.1 0.5 No R1073 Residential B / 66 44.6 44.6 45.2 0.6 No 44.6 0.0 No R1074 Residential B / 66 44.6 44.6 45.8 1.2 No 45.3 0.7 No R1075 Residential B / 66 44.6 44.6 45.8 1.2 No 45.7 1.1 No R1075 Residential B / 66 44.6 44.6 45.8 1.2 No 45.3 0.7 No R1077 Residential B / 66 44.6 44.6 44.6 0.0 No <td>R1069</td> <td>Residential</td> <td><u> </u></td> <td>44.6</td> <td>44.6</td> <td></td> <td></td> <td>No</td> <td>44.6</td> <td>0.0</td> <td>No</td>	R1069	Residential	<u> </u>	44.6	44.6			No	44.6	0.0	No
R1071 Residential B / 66 44.6 44.6 46.7 2.1 No 46.1 1.5 No R1072 Residential B / 66 44.6 44.6 45.7 1.1 No 45.1 0.5 No R1073 Residential B / 66 44.6 44.6 45.2 0.6 No 44.6 0.0 No R1074 Residential B / 66 44.6 44.6 45.8 1.2 No 45.3 0.7 No R1075 Residential B / 66 44.6 44.6 45.8 1.2 No 45.3 0.7 No R1075 Residential B / 66 44.6 44.6 45.0 0.0 No 45.7 1.1 No R1076 Residential B / 66 44.6 44.6 40.0 0.0 No 44.6 0.0 No 44.6 0.0 No 44.6 0.0 No 44.6 0.0 No <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>No</td></t<>											No
R1072 Residential B / 66 44.6 45.7 1.1 No 45.1 0.5 No R1073 Residential B / 66 44.6 44.6 45.2 0.6 No 44.6 0.0 No R1074 Residential B / 66 44.6 44.6 45.8 1.2 No 45.3 0.7 No R1075 Residential B / 66 44.6 44.6 46.4 1.8 No 45.7 1.1 No R1076 Residential B / 66 44.6 44.6 0.0 No 44.6 0.0 No 44.6 0.0 No A4.6 0.0 No A4.6<			<u> </u>			_	_				
R1073 Residential B / 66 44.6 44.6 45.2 0.6 No 44.6 0.0 No R1074 Residential B / 66 44.6 44.6 45.8 1.2 No 45.3 0.7 No R1075 Residential B / 66 44.6 44.6 46.4 1.8 No 45.7 1.1 No R1076 Residential B / 66 44.6 44.6 0.0 No 53.4 5.6 No 8.6 No 8.6 47.4 50.5 53.2		Residential	,	44.6	44.6	45.7	1.1		45.1	0.5	No
R1074 Residential B / 66 44.6 44.6 45.8 1.2 No 45.3 0.7 No R1075 Residential B / 66 44.6 44.6 46.4 1.8 No 45.7 1.1 No R1076 Residential B / 66 44.6 44.6 44.6 0.0 No 44.6 0.0 No 44.6 0.0 No A4.6 0.0 No No 53.4 5.6 No No 81.4 50.9 54.0 6.2 No 53.4 5.6 No No 81.4 No 81.4 No 81.4 No 81.4											
R1075 Residential B / 66 44.6 44.6 46.4 1.8 No 45.7 1.1 No R1076 Residential B / 66 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1077 Residential B / 66 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1078 Residential B / 66 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1079 Residential B / 66 47.8 50.9 54.0 6.2 No 53.4 5.6 No R1080 Residential B / 66 47.4 50.5 53.2 5.8 No 52.6 5.2 No R1081 Residential B / 66 44.6 44.6 46.5 1.9 No 46.0 1.4 No R1082 Residential B / 66 45.1 48.2 50.7 5.6 No <td></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			<u> </u>								
R1076 Residential B / 66 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1077 Residential B / 66 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1078 Residential B / 66 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1079 Residential B / 66 47.8 50.9 54.0 6.2 No 53.4 5.6 No R1080 Residential B / 66 47.4 50.5 53.2 5.8 No 52.6 5.2 No R1081 Residential B / 66 44.6 44.6 46.5 1.9 No 46.0 1.4 No R1082 Residential B / 66 45.1 48.2 50.7 5.6 No 50.1 5.0 No R1083 Residential B / 66 45.9 49.0 51.6 5.7 No <td>_</td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td>	_		,					_			
R1077 Residential B / 66 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1078 Residential B / 66 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1079 Residential B / 66 47.8 50.9 54.0 6.2 No 53.4 5.6 No R1080 Residential B / 66 47.4 50.5 53.2 5.8 No 52.6 5.2 No R1081 Residential B / 66 44.6 44.6 46.5 1.9 No 46.0 1.4 No R1081 Residential B / 66 44.6 44.6 46.5 1.9 No 46.0 1.4 No R1082 Residential B / 66 45.1 48.2 50.7 5.6 No 50.1 5.0 No R1083 Residential B / 66 45.9 49.0 51.6 5.7 No <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>											
R1078 Residential B / 66 44.6 44.6 44.6 0.0 No 44.6 0.0 No R1079 Residential B / 66 47.8 50.9 54.0 6.2 No 53.4 5.6 No R1080 Residential B / 66 47.4 50.5 53.2 5.8 No 52.6 5.2 No R1081 Residential B / 66 44.6 44.6 46.5 1.9 No 46.0 1.4 No R1082 Residential B / 66 45.1 48.2 50.7 5.6 No 50.1 5.0 No R1083 Residential B / 66 45.9 49.0 51.6 5.7 No 51.1 5.2 No R1084 Residential B / 66 46.0 49.0 51.4 5.4 No 50.8 4.8 No R1085 Residential B / 66 44.6 45.4 48.1 3.5 No <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>											
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R1081 Residential B / 66 44.6 44.6 46.5 1.9 No 46.0 1.4 No R1082 Residential B / 66 45.1 48.2 50.7 5.6 No 50.1 5.0 No R1083 Residential B / 66 45.9 49.0 51.6 5.7 No 51.1 5.2 No R1084 Residential B / 66 46.0 49.0 51.4 5.4 No 50.8 4.8 No R1085 Residential B / 66 44.6 45.4 48.1 3.5 No 47.6 3.0 No R1086 Residential B / 66 44.6 44.6 47.1 2.5 No 46.6 2.0 No R1087 Residential B / 66 51.6 54.7 57.9 6.3 No 57.5 5.9 No R1088 Residential B / 66 51.8 54.9 57.3 5.5 No <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>											
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R1083 Residential B / 66 45.9 49.0 51.6 5.7 No 51.1 5.2 No R1084 Residential B / 66 46.0 49.0 51.4 5.4 No 50.8 4.8 No R1085 Residential B / 66 44.6 45.4 48.1 3.5 No 47.6 3.0 No R1086 Residential B / 66 44.6 47.1 2.5 No 46.6 2.0 No R1087 Residential B / 66 51.6 54.7 57.9 6.3 No 57.5 5.9 No R1088 Residential B / 66 51.8 54.9 57.3 5.5 No 56.9 5.1 No R1089 Commercial F / 54.2 57.2 58.4 4.2 No 58.0 3.8 No											
R1084 Residential B / 66 46.0 49.0 51.4 5.4 No 50.8 4.8 No R1085 Residential B / 66 44.6 45.4 48.1 3.5 No 47.6 3.0 No R1086 Residential B / 66 44.6 44.6 47.1 2.5 No 46.6 2.0 No R1087 Residential B / 66 51.6 54.7 57.9 6.3 No 57.5 5.9 No R1088 Residential B / 66 51.8 54.9 57.3 5.5 No 56.9 5.1 No R1089 Commercial F / 54.3 57.3 58.5 4.2 No 58.1 3.8 No R1090 Commercial F / 54.2 57.2 58.4 4.2 No 58.0 3.8 No			,								
R1085 Residential B / 66 44.6 45.4 48.1 3.5 No 47.6 3.0 No R1086 Residential B / 66 44.6 44.6 47.1 2.5 No 46.6 2.0 No R1087 Residential B / 66 51.6 54.7 57.9 6.3 No 57.5 5.9 No R1088 Residential B / 66 51.8 54.9 57.3 5.5 No 56.9 5.1 No R1089 Commercial F / 54.3 57.3 58.5 4.2 No 58.1 3.8 No R1090 Commercial F / 54.2 57.2 58.4 4.2 No 58.0 3.8 No											
R1086 Residential B / 66 44.6 44.6 47.1 2.5 No 46.6 2.0 No R1087 Residential B / 66 51.6 54.7 57.9 6.3 No 57.5 5.9 No R1088 Residential B / 66 51.8 54.9 57.3 5.5 No 56.9 5.1 No R1089 Commercial F / 54.3 57.3 58.5 4.2 No 58.1 3.8 No R1090 Commercial F / 54.2 57.2 58.4 4.2 No 58.0 3.8 No											
R1087 Residential B / 66 51.6 54.7 57.9 6.3 No 57.5 5.9 No R1088 Residential B / 66 51.8 54.9 57.3 5.5 No 56.9 5.1 No R1089 Commercial F / 54.3 57.3 58.5 4.2 No 58.1 3.8 No R1090 Commercial F / 54.2 57.2 58.4 4.2 No 58.0 3.8 No											
R1088 Residential B / 66 51.8 54.9 57.3 5.5 No 56.9 5.1 No R1089 Commercial F / 54.3 57.3 58.5 4.2 No 58.1 3.8 No R1090 Commercial F / 54.2 57.2 58.4 4.2 No 58.0 3.8 No											
R1089 Commercial F/ 54.3 57.3 58.5 4.2 No 58.1 3.8 No R1090 Commercial F/ 54.2 57.2 58.4 4.2 No 58.0 3.8 No											
R1090 Commercial F / 54.2 57.2 58.4 4.2 No 58.0 3.8 No											
. WIND I COMMORAD I E/ E// E// U// // No LUN 70 No	R1090	Commercial	F /	54.2	57.2	58.4	4.2	No	58.0	3.8	No

						Alt 1			Alt 7A	
Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
		(dBA)	L _{eq} (dBA)	L _{eq} (dBA)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)
R1092	Commercial	F /	54.0	57.0	58.2	4.2	No	57.8	3.8	No
R1093	Commercial	F /	53.9	56.9	58.1	4.2	No	57.7	3.8	No
R1094	Commercial	F /	53.7	56.8	57.9	4.2	No	57.5	3.8	No
R1095	Commercial	F /	53.5	56.6	57.7	4.2	No	57.3	3.8	No
R1096	Commercial	F /	53.4	56.4	57.6	4.2	No	57.2	3.8	No
R1097	Commercial	F /	53.2	56.2	57.4	4.2	No	57.0	3.8	No
R1098	Commercial	F /	53.1	56.1	57.3	4.2	No	56.9	3.8	No
R1099	Residential	B / 66	49.5	52.6	53.1	3.6	No	52.6	3.1	No
R1100	Residential	B / 66	50.2	53.3	53.8	3.6	No	53.4	3.2	No
R1101	Residential	B / 66	51.6	54.7	55.4	3.8	No	55.0	3.4	No
R1102	Residential	B / 66	53.1	56.2	57.0	3.9	No	56.6	3.5	No
R1103	Residential	B / 66	55.7	58.8	59.8	4.1	No	59.4	3.7	No
R1104	Residential	B / 66	57.1	60.2	61.3	4.2	No	60.9	3.8	No
R1105	Residential	B / 66	57.1	60.1	61.4	4.3	No	61.0	3.9	No
R1106	Residential	B / 66	58.0	61.1	62.5	4.5	No	62.2	4.2	No
R1107	Residential	B / 66	54.9	58.0	60.1	5.2	No	59.8	4.9	No
R1108	Residential	B / 66	53.4	56.5	58.5	5.1	No	58.1	4.7	No
R1109	Residential	B / 66	52.4	55.4	57.1	4.7	No	56.7	4.3	No
R1110	Residential	B / 66	51.5	54.6	55.9	4.4	No	55.6	4.1	No
R1111	Residential	B / 66	50.8	53.8	54.7	3.9	No	54.4	3.6	No
R1112	Residential	B / 66	50.2	53.3	53.8	3.6	No	53.4	3.2	No
R1113	Residential	B / 66	49.6	52.7	52.8	3.2	No	52.5	2.9	No
R1114	Commercial	F /	48.5	51.4	53.0	4.5	No	53.2	4.7	No
R1115	Commercial	F /	47.9	50.4	53.0	5.1	No	53.1	5.2	No
R1116	Residential	B / 66	50.8	54.0	55.0	4.2	No	54.2	3.4	No
R1117	Residential	B / 66	49.0	52.2	52.4	3.4	No	51.9	2.9	No
R1118	Residential	B / 66	48.5	51.6	51.9	3.4	No	51.4	2.9	No
R1119	Residential	B / 66	46.1	49.3	49.4	3.3	No	48.3	2.2	No
R1120	Residential	B / 66	46.1	49.3	49.5	3.4	No	48.7	2.6	No
R1121	Residential	B / 66	48.0	51.1	51.4	3.4	No	55.5	7.5	No
R1122	Residential	B / 66	47.6	50.8	51.2	3.6	No	54.9	7.3	No
R1123	Residential	B / 66	47.2	50.4	50.7	3.5	No	53.9	6.7	No
R1124	Residential	B / 66	46.8	49.9	50.9	4.1	No	53.8	7.0	No
R1125	Residential	B / 66	46.5	49.7	50.7	4.2	No	53.4	6.9	No
R1126	Residential	B / 66	46.4	49.6	50.7	4.3	No	53.2	6.8	No
R1127	Residential	B / 66	46.3	49.5	50.6	4.3	No	52.9	6.6	No
R1128	Residential	B / 66	46.2	49.4	50.5	4.3	No	52.6	6.4	No



						Alt 1			Alt 7A	
Receiver ID	Receiver Description	Activity Category / CDOT NAC	Existing (2019)	No Action (2040)	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?	Proposed Action (2040)	Proposed Action Change	Proposed Action Causes Impact?
	(dBA)	From Existing (dBA)	(Yes or No)	L _{eq} (dBA)	From Existing (dBA)	(Yes or No)				
R1129	Residential	B / 66	46.4	49.5	50.4	4.0	No	52.3	5.9	No
R1130	Residential	B / 66	44.6	46.5	45.7	1.1	No	50.2	5.6	No
R1131	Residential	B / 66	44.6	45.9	45.2	0.6	No	49.3	4.7	No
R1132	Residential	B / 66	44.6	45.3	44.6	0.0	No	48.5	3.9	No
R1133	Residential	B / 66	44.6	44.9	44.6	0.0	No	48.0	3.4	No
R1134	Residential	B / 66	44.6	44.7	44.6	0.0	No	47.7	3.1	No
R1135	Residential	B / 66	44.6	44.7	44.6	0.0	No	47.5	2.9	No
R1136	Residential	B / 66	44.6	44.6	44.6	0.0	No	47.3	2.7	No
R1137	Residential	B / 66	59.1	62.3	60.2	1.1	No	61.0	1.9	No
R1138	Commercial	F /	54.3	57.3	58.1	3.8	No	57.6	3.3	No
R1139	Commercial	F /	56.3	59.6	60.5	4.2	No	57.1	0.8	No
R1140	Walmart/Outdoor Benches	E / 71	62.0	64.1	62.5	0.5	No	62.5	0.5	No
R1141	Residential	B / 66	51.0	54.0	54.0	3.0	No	53.6	2.6	No
R1142	Residential	B / 66	51.5	54.6	54.3	2.8	No	53.9	2.4	No
R1143	Residential	B / 66	52.0	55.0	54.4	2.4	No	54.0	2.0	No





Appendix D Field Data Collection Sheets



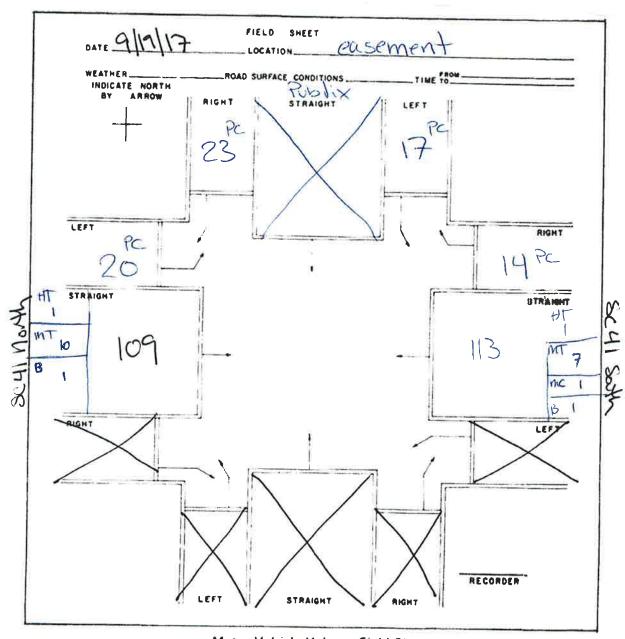
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Tally Sheet

Tally Sheet

Date: 9 19 17	Start Time:	2:52	Finish Time: 5.0%
Location: a sement	Weather:	86	Road Conditions:
Observer: Sciarco			31CW
Noise Conditions:			



Motor Vehicle Volume Field Sheet

Date: 9/20/17	Start Time: 9:39	Finish Time:	איבט
Location: Hacres For	Weather: 790F SUM	Road Condition	
Observer: Sciaco	The second of	Trodu Condition	13.9 lan
Noise Conditions:	onstruction + landscapin	5 noise	
	609	619, 364 25	67
SC41 North		SC-41 Sorth	нт г
5 79 146	\Rightarrow (N)	132	13 ^M

Date: 9/20/17	Start Time:	10:37	Finish Time:	10:57
Location: Sc. 41 M	Weather:	810 SUNI		ons: freeflow
Observer: Sciarro			1	71 (2 1100
Noise Conditions: had	to restar	15/0	a heavy tru	ick
idled directly	in fro	to the	the meter	100
construction a	ra		Zone H	
ditch mainten	ance		60197 3	643895
SC - 41 North M HT W 87	PC	V	SC-41 South	HT 10 MC

Date: 9 20 17 Start Time: 11 15 - 11: 30 Finish Time:	
Location: Ph. III Mano Weather: 810 Synny Road Condition	is: freafly
Observer: Sciaco	interiou
Noise Conditions:	
60903.3639692	
610903, 3639692 Zone E	
SC-41 North SC-41 South	
PC N PC 106	HT AI

Date: 920 17 Start Time: 11:46 Finish Time: 12:01

Location: Smalls Weather: 81° Road Conditions: 1000m

Observer: Sciacro

Noise Conditions: 611129, 3638992

Date: 9/20/17	Start Time: 2:53	Finish Time:	3:08
Location: Lakernest	Weather: 81° Sunny	Road Conditi	ons: free flow
Observer: Sciaco			1110 110
Noise Conditions:	612277, 3	636891	
		112	
©2 HT 199	PC	057	HT 3 3
±7		25 T	MC B

Date:	9/21/17	Start Time: 9:40	Finish Time:	9:55
Location	on: Caroline Theap	weather: 79° Sonn	Road Conditio	ns: free flow
Observ		\	1	
Noise (Conditions:			
	video	used for count	+	
, VS	Aros Fic	10.	US 17 North	<u> </u>
Φ	нт	PC	PC	HT Q \
MC	11 381	⇒(N)<=	321	13
¥9				3

Date: 9/21/17	Start Time: \0:50	Finish Time: 11:05
Location: McConnell	Weather: 79° sunny	Road Conditions: Free flow
Observer: Sciaro		
Noise Conditions:		
	used video for cou	A+
	, , , , , , , , , , , , , , , , , , ,	
VS-17 Soth	V	S-17 North
™ 1 HT 12 538	PC PC	4T 22 \$ 8
₹15		В

Air Hub Project No: CHS-17-062



Instrument Model

CEL-633A

Duration

00:24:58 HH:MM:SS

Start Date & Time

9/19/2017 2:21:03 PM

LAeq

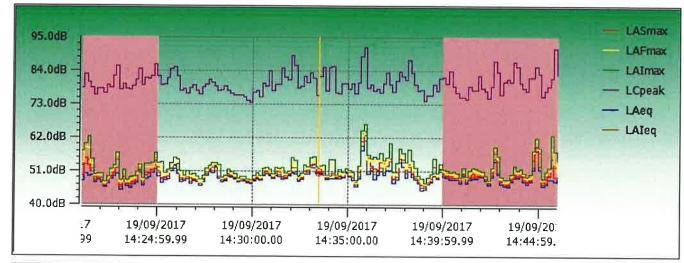
49.8 dB

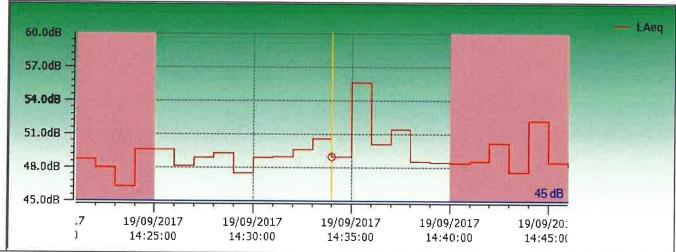
End Date & Time

9/19/2017 2:46:01 PM

LAeq Inclusion Zone

50.2 dB





Air Hub Project No: CHS-17-062



Instrument Model

CEL-633A

Duration

00:22:01 HH:MM:SS

Start Date & Time

9/19/2017 2:49:53 PM

LAeq

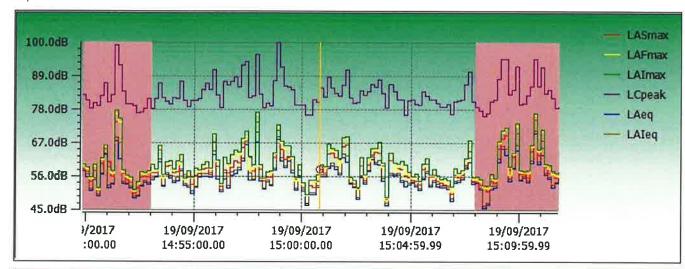
58.6 dB

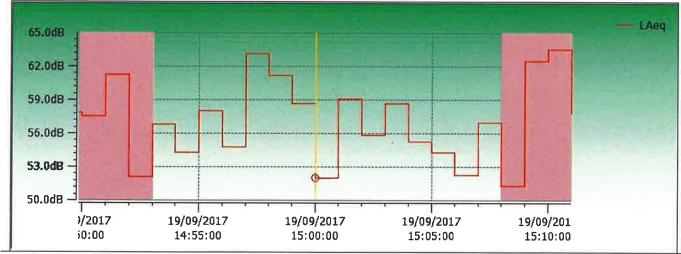
End Date & Time

9/19/2017 3:11:54 PM

LAeq Inclusion Zone

57.9 dB





Air Hub Project No: CHS-17-062



Instrument Model

CEL-633A

Duration

00:20:03 HH:MM:SS

Start Date & Time

9/20/2017 9:36:57 AM

LAeq

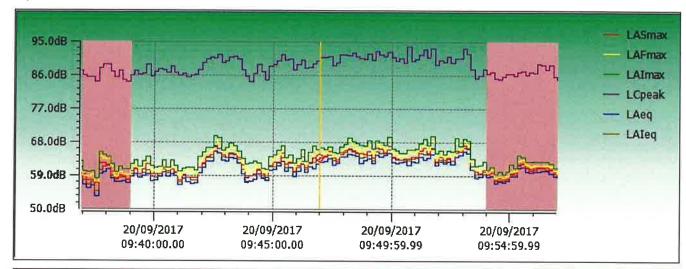
61.5 dB

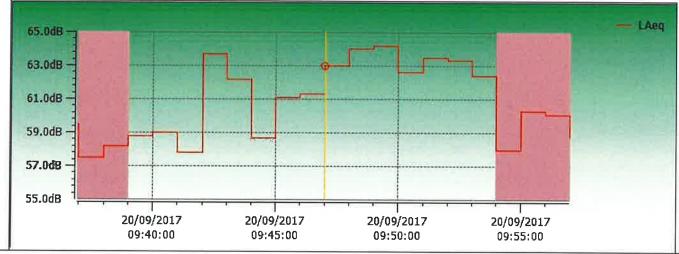
End Date & Time

9/20/2017 9:57:00 AM

LAeq Inclusion Zone

62.3 dB





Air Hub Project No: CHS-17-062



Instrument Model CEL-633A

Duration

00:38:22 HH:MM:SS

Start Date & Time

9/20/2017 10:19:45 AM

LAeq

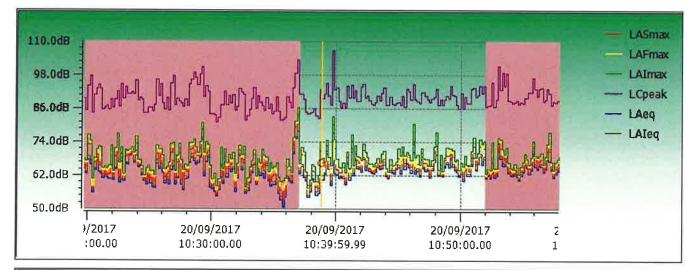
65.3 dB

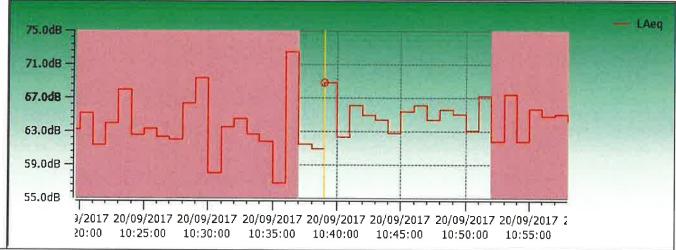
End Date & Time

9/20/2017 10:58:07 AM

LAeq Inclusion Zone

65.2 dB





Air Hub Project No: CHS-17-062



Instrument Model

CEL-633A

Duration

00:18:50 HH:MM:SS

Start Date & Time

9/20/2017 11:14:01 AM

LAeq

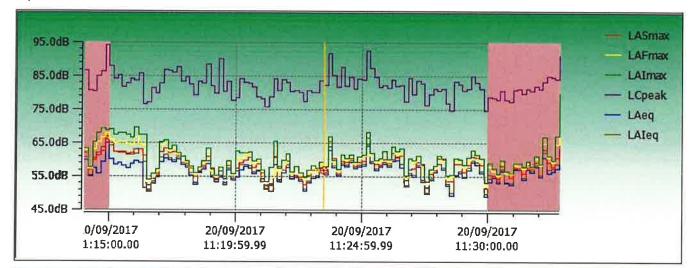
57,5 dB

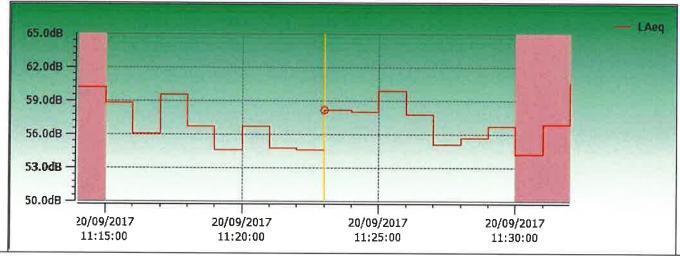
End Date & Time

9/20/2017 11:32:51 AM

LAeq Inclusion Zone

57.1 dB





Air Hub Project No: CHS-17-062



Instrument Model

CEL-633A

Duration

00:19:14 HH:MM:SS

Start Date & Time

9/20/2017 11:44:08 AM

LAeq

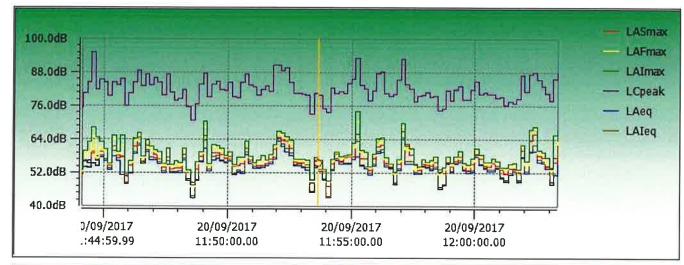
55.7 dB

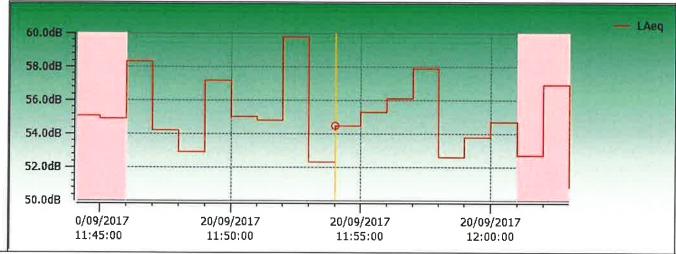
End Date & Time

9/20/2017 12:03:22 PM

LAeq Inclusion Zone

55,6 dB





Air Hub Project No: CHS-17-062



Instrument Model

CEL-633A

Duration

00:19:57 HH:MM:SS

Start Date & Time

9/20/2017 2:51:13 PM

LAeq

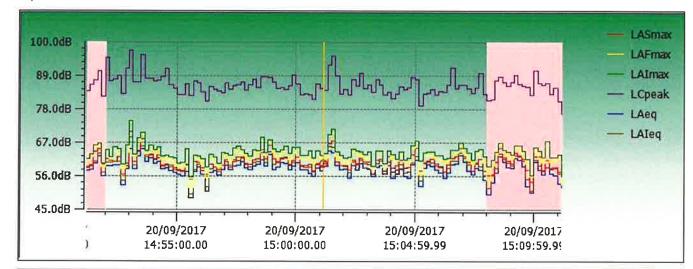
59.2 dB

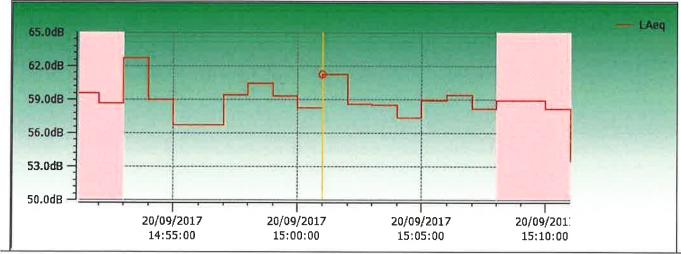
End Date & Time

9/20/2017 3:11:10 PM

LAeq Inclusion Zone

58.9 dB





Air Hub Project No: CHS-17-062



Instrument Model

CEL-633A

Duration

00:17:59 HH:MM:SS

Start Date & Time

9/21/2017 9:38:31 AM

LAeq

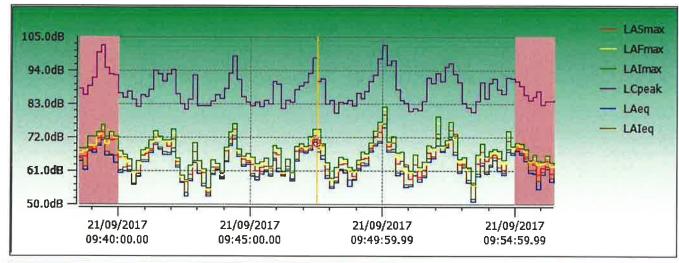
65,1 dB

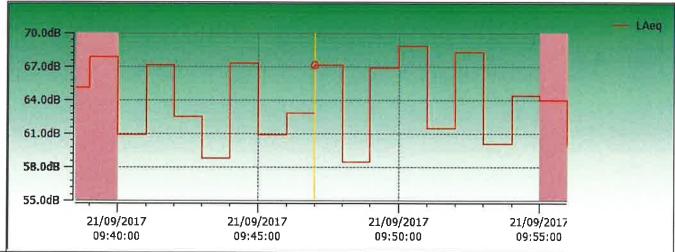
End Date & Time

9/21/2017 9:56:30 AM

LAeq Inclusion Zone

65.3 dB





Air Hub Project No: CHS-17-062



Instrument Model

CEL-633A

Duration

00:36:06 HH:MM:SS

Start Date & Time

9/21/2017 10:32:49 AM

LAeq

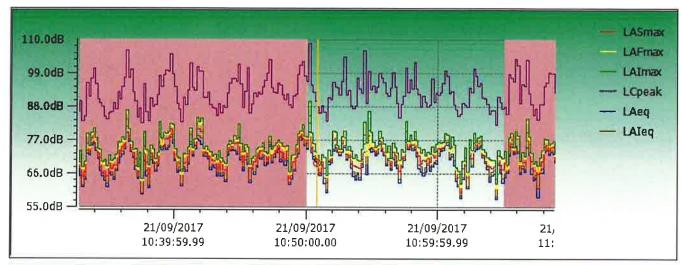
71.6 dB

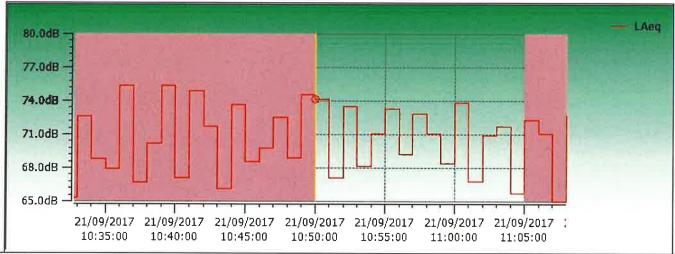
End Date & Time

9/21/2017 11:08:55 AM

LAeq Inclusion Zone

71.0 dB





INSTRUMENT CALIBRATION REPORT



Pine Environmental Services, Inc

Instrument ID 24152

Description Casella CEL-120/2 Acoustic Calibrator

Calibrated 5/3/2017

Manufacturer Casella

Model Number CEL-120/2

Serial Number 2839253

Location New Jersey

Temp 77

Classification

Status pass

Frequency Yearly EOM

Department Lab

Humidity 30

Calibration Specifications

Group # 1

Group Name Acoustic Tests Performed

Test Performed: Yes

As Found Result: Pass

As Left Result: Pass

4 14 17 17 17 14				(As Of C	al Entry Date)
Test Instrument ID	Description	Manufacturer	Serial Number	Last Cal Date	Next Cal Date
B&K 4226	Brüel & Kjær 4226	Brüel & Kjær	2590968	4/24/2017	4/24/2018
B&K 4228	Brüel & Kjær 4228	Brüel & Kjær	2667476	4/5/2017	4/5/2018
FLUKE 114	Fluke 114 NIST Traceable Multimeter	Fluke	15310288	5/6/2016	5/6/2017
SOUNDPRO DL-1-1/3	3M SoundPro DL-1-1/3	Quest Technologies	BLL070002	4/17/2017	4/17/2018

Notes about this calibration

Calibration Result Calibration Successful

Who Calibrated Kevin Cole

Advanced Labs, Inc. hereby certifies that this instrument is calibrated and functions to meet the manufacture's specifications using NIST traceable standards, or is derived from accepted values of physical constants.

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services, Inc

Instrument ID R220141

Description CEL-63X Sound Level Meter

Calibrated 12/29/2016

Manufacturer Casella

Model Number CEL-63X

Serial Number 2145345

Location New Jersey

Temp 70

Classification

Status pass

Frequency Yearly EOM

Department Lab

Humidity 25

Calibration Specifications

Group # 1

Group Name Acoustic Tests Performed

Test Performed: Yes

As Found Result: Fail

As Left Result: Pass

Test Instruments Used During the Calibration

Test Instrument ID	Description	Acres		(As Of C	al Entry Date)
	Description	Manufacturer	Serial Number	Last Cal Date	Next Cal Date
B&K 4226	Brüel & Kjær 4226	Brüel & Kjær	2590968	3/15/2016	3/15/2017
B&K 4228	Brüel & Kjær 4228	Brüel & Kjær	2667476	3/15/2016	3/15/2017
FLUKE 114	Fluke 114 NIST Traceable Multimeter	Fluke	15310288	5/6/2016	5/6/2017

Notes about this calibration

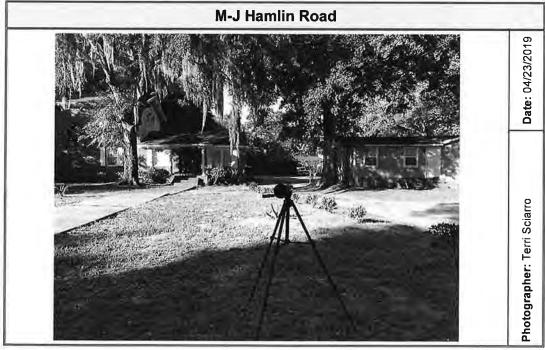
Calibration Result Calibration Successful

Who Calibrated Kevin Cole

Advanced Labs, Inc. hereby certifies that this instrument is calibrated and functions to meet the manufacture's specifications using NIST traceable standards, or is derived from accepted values of physical constants.







Field Notes

Date:	4/23/2019
Start Time:	6:35
Location:	M-J Hamlin Road
Weather:	clear 71º
Road Conditions:	free flowing
Observer:	Terri Sciarro
	Air Hub, LLC
Noise Conditions:	quiet
Coordinates:	612010.00 m E
Coordinates:	3639947.00 m N
Time Range:	15 minutes
Equipment ID:	LxT - 011
Calibration:	pass

Comments: residential area, EMS could be heard in distance during reading

Measurement Report

Report Summary

Meter's File Name CHAUNCYs.011

LxT SE 0004864

Firmware 2.302

User

Terri Sciarro

Description HDR

Note 04/23/2019 Start Time 2019-04-23 18:35:10

End Time 2019-04-23 18:52:29

Duration 0:17:18.4

Run Time 0:17:18.4

Pause Time 0:00:00.0

Computer's File Name SLM_0004864_CHAUNCYs_011.00.ldbin

Location

Results

Overall Metrics

LA _{eq}	64.4 dB		
LAE	94.6 dB	SEA	dB
EA	319.3 µPa²h		
LA _{peak}	94.4 dB	2019-04-23 18:48:26	
LAF _{max}	80.1 dB	2019-04-23 18:48:26	
LAF _{min}	46.3 dB	2019-04-23 18:42:16	
LA _{eq}	64.4 dB		
LC _{eq}	69.1 dB	LC _{eq} - LA _{eq}	4.7 dB
LAI _{eq}	66.3 dB	LAI _{eq} - LA _{eq}	1.9 dB
ceedances	Count	Duration	

Exceedances	Count	Duration
LAF > 85.0 dB	0	0:00:00.0
LAF > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
LApeak > 140.0 dB	0	0:00:00.0

Community Noise	LDN	LDay	LNight
	64.4 dB	64.4 dB	0.0 dB

LDEN	LDay	LEve	LNight
64.4 dB	64.4 dB	dB	dB

Any Data	Α		С		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L _{eq}	64.4 dB		69.1 dB		dB	
LF _(max)	80.1 dB	2019-04-23 18:48:26	dB		dB	
LF _(min)	46.3 dB	2019-04-23 18:42:16	dB		dB	
L _{Peak(max)}	94.4 dB	2019-04-23 18:48:26	dB		dB	

Overloads	Count	Duration	OBA Count	OBA Duration
	0	0:00:00:0	0	0:00:00=0
0: 11:11				

Statistics

LAF 5:0	71.3 dB
LAF 10.0	69.1 dB
LAF 33.3	60.3 dB
LAF 50.0	55.5 dB
LAF 66.6	53.1 dB
LAF 90-0	49.8 dB

Intersection Tally Sheet

Date: 4/23/2019

Start Time: 6:35

Finish Time: 6:50

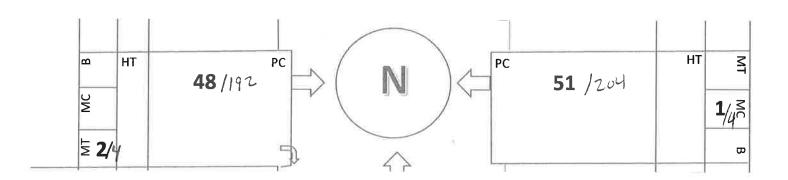
Location: M-J Hamlin

Weather: clear

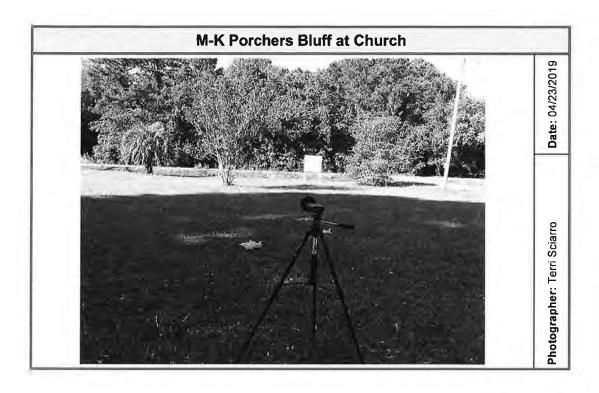
Road: light traffic

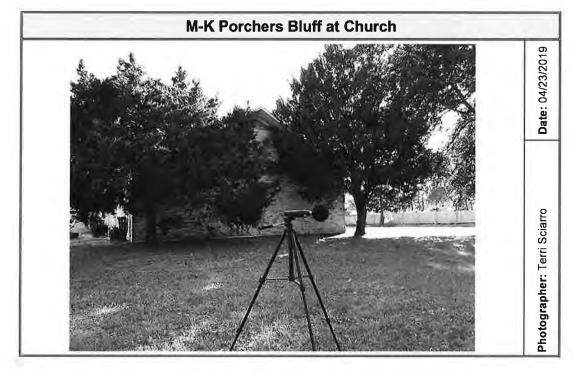
Observer: T. Sciarro

Noise Conditions: Residential area near US-17









Field Notes

Date:	4/23/2019
Start Time:	5:25
Location:	M-K Porchers Bluff at
Location.	Church
Weather:	clear 71º
Road Conditions:	free flowing
Observer:	Terri Sciarro
Observer	Air Hub, LLC
Noise Conditions:	quiet
Coordinates:	613652 m E
Coordinates.	3636299 m N
Time Range:	15 minutes
Equipment ID:	LxT - 008
Calibration:	pass

Comments: medium free flowing traffic

Intersection Tally Sheet

Date: 4/23/2019

Start Time: 5:27

Finish Time: 5:42

Location: M-K Porchers Weather: clear

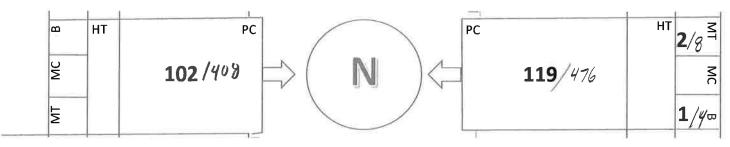
Road: light traffic

Observer: T. Sciarro

Noise Conditions: Near condemned properties in residential and commercial

development

Oakland Plantation



Closed church

Measurement Report

Report Summary

LAF 66.6

LAF 90.0

52.0 dB

48.0 dB

Meter's File Name CHAUNCYs.008

Computer's File Name SLM_0004864_CHAUNCYs_008.00.ldbin

riecei

LxT SE

Firmware

2.302

User

Terri Sciarro

0004864

Description HDR

Note

04/23/2019

Start Time 2019-04-23 17:25:02

End Time 2019-04-23 17:40:29

Duration 0:15:26.7

Run Time 0:15:26.7

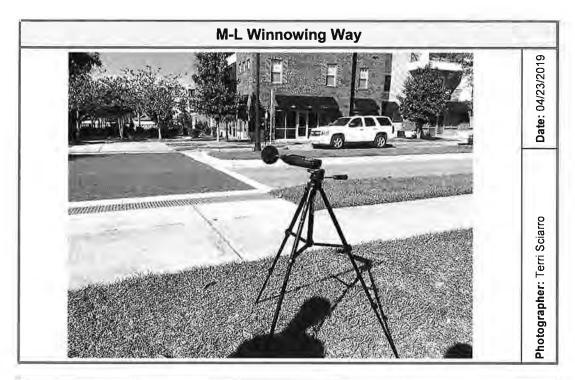
Pause Time 0:00:00.0

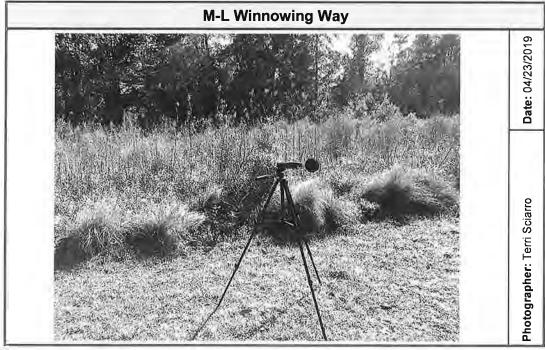
Location

Results

Overall Metrics						
LA _{eq}	54.5 dB					
LAE	84.1 dB	SEA	dB			
EA	28.8 µPa²h					
LA _{peak}	80.5 dB	2019-04-23 17:33:38				
LAF _{max}	66.2 dB	2019-04-23 17:33:38				
LAF _{min}	41.4 dB	2019-04-23 17:30:11				
LA _{eq}	54.5 dB					
LC _{eq}	65.4 dB	LC _{eq} - LA _{eq}	10.9 dB			
LAI _{eq}	55.1 dB	LAI _{eq} - LA _{eq}	0.7 dB			
Exceedances	Count	Duration				
LAF > 85.0 dB	0	0:00:00.0				
LAF > 115.0 dB	0	0:00:00.0				
LApeak > 135.0 dB	0	0:00:00.0				
LApeak > 137.0 dB	0	0:00:00.0				
LApeak > 140.0 dB	0	0:00:00.0				
Community Noise	LDN	LDay	LNight			
	54.5 dB	54.5 dB	0.0 dB			
	LDEN	LDay	LEve	LNight		
	54.5 dB	54.5 dB	dB	dB		
Any Data		Α		С		Z
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L _{eq}	54.5 dB		65.4 dB		dB	
LF _(max)	66.2 dB	2019-04-23 17:33:38	dB		dB	
LF _(min)	41.4 dB	2019-04-23 17:30:11	dB		dB	
L _{Peak(max)}	80.5 dB	2019-04-23 17:33:38	dB		dB	
Overloads	Count	Duration	OBA Count	OBA Duration		
	0	0:00:00.0	0	0:00:00.0		
Statistics						
LAF 5.0	58.2 dB					
LAF 10.0	57.2 dB					
LAF 33.3	55.0 dB					
LAF 50.0	53.6 dB					







Field Notes

Tiela Hotes			
4/23/2019			
5:02			
M-L Winnowing Way			
clear 71º			
free flowing			
Terri Sciarro			
Air Hub, LLC			
quiet			
612664 m E			
3636748 m N			
15 minutes			
LxT - 007			
pass			

Comments: residential area, US-17 audible

Intersection Tally Sheet

Date: 4/23/2019

Start Time: 5:02

Finish Time: 5:17

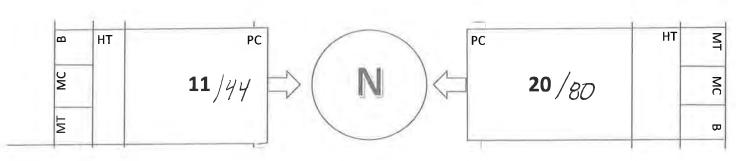
Location: M-L Winnowing Way Weather: clear

Road: light traffic

Observer: T. Sciarro

Noise Conditions: Near undeveloped properties and residential development

The Sage at 1240 Apartments



undeveloped

Measurement Report

Report Summary

Meter's File Name CHAUNCYs,007

LxT SE

Firmware 2.302

User

Terri Sciarro

HDR Description Note

04/23/2019

Start Time 2019-04-23 17:02:40

 Start Time
 2019-04-23 17:02:40
 Duration
 0:16:00.3

 End Time
 2019-04-23 17:18:41
 Run Time
 0:16:00.3

Pause Time 0:00:00.0

Computer's File Name SLM_0004864_CHAUNCYs_007.00.ldbin

Location

Results

Overall Metrics

LA _{eq} LAE EA	54.6 dB 84.4 dB 30.4 μPa²h	SEA	dB
LA _{peak} LAF _{max} LAF _{min}	91.9 dB 72.7 dB 47.1 dB	2019-04-23 17:18 2019-04-23 17:13: 2019-04-23 17:04:	:12
LA _{eq} LC _{eq} LAI _{eq}	54.6 dB 66.6 dB 57.1 dB	LC _{eq} - LA _{eq} LAI _{eq} - LA _{eq}	12.0 dB 2.5 dB
ceedances	Count	Duration	

Exceedances	Count	Duration
LAF > 85.0 dB	0	0:00:00.0
LAF > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
Aneak > 140.0 dB	0	0:00:00.0

Community Noise	LDN	LDay	LNight
	54.6 dB	54.6 dB	0.0 dB

LDEN	LDay	LEve	LNight
54.6 dB	54.6 dB	dB	dB

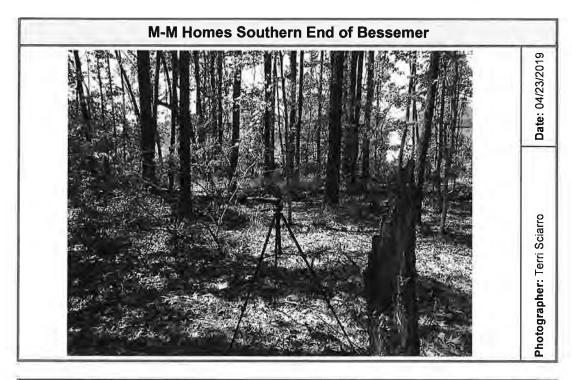
Ar	y Data	Α		С		Z	
		Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
	L _{eq}	54.6 dB		66,6 dB		dB	
	LF _(max)	72.7 dB	2019-04-23 17:13:12	dB		dB	
	LF _(min)	47.1 dB	2019-04-23 17:04:43	dB		dB	
	L _{Peak(max)}	91.9 dB	2019-04-23 17:18:31	dB		dB	

Overloads	Count	Duration	OBA Count	OBA Duration
	0	0.00:00.0	0	0:00:00.0

Statistics

59.7 dB
56.7 dB
52.0 dB
51.1 dB
50.3 dB
49 ₊ 1 dB







Field Notes

110	id Notes
Date:	4/23/2019
Start Time:	1:56
	M-M New Homes
Location:	Southern End of
	Bessemer
Weather:	clear 71º
Road Conditions:	free flowing
Ohaamiami	Terri Sciarro
Observer:	Air Hub, LLC
Noise Conditions:	quiet
Coordinates	612099.00 m E
Coordinates:	3638534.00 m N
Time Range:	15 minutes
Equipment ID:	LxT - 005
Calibration:	pass

Comments: wooded, near significant construction

Measurement Report

Report Summary

Meter's File Name CHAUNCYs.005

Meter LxT SE 0004864

Firmware

2,302

User Terri Sciarro

Description

HDR

04/23/2019

Note

 Start Time
 2019-04-23 13:56:46
 Duration
 0:23:01.4

 End Time
 2019-04-23 14:19:48
 Run Time
 0:23:01.4

Pause Time 0:00:00.0

Computer's File Name SLM_0004864_CHAUNCYs_005.00.ldbin

Location

Results

Overall Metrics

LA _{eq}	49.1 dB	
LAE	80.5 dB	SEA dB
EA	12,5 μPa²h	
LA _{peak}	90.9 dB	2019-04-23 13:57:43
LAFmax	70.5 dB	2019-04-23 14:19:39
LAF_{min}	42.2 dB	2019-04-23 14:18:58
LA _{eq}	49.1 dB	
LC _{eq}	58.1 dB	LC _{eq} - LA _{eq} 9.0 dB
LAI _{eq}	54.1 dB	LAI _{eq} - LA _{eq} 5.0 dB

Exceedances	Count	Duration
LAF > 85.0 dB	0	0:00:00.0
LAF > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
LApeak > 140.0 dB	0	0:00:00.0

Community Noise	LDN	LDay	LNight
	49.1 dB	49.1 dB	0.0 dB
	LDEN	I Day	1.5

	LDEN	LDay	LEve	LNight
	49.1 dB	49.1 dB	dB	dB
mi Data			•	

Any Data	А		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
Leq	49.1 dB		58.1 dB		dB	
LF _(max)	70.5 dB	2019-04-23 14:19:39	dB		dB	
LF _(min)	42,2 dB	2019-04-23 14:18:58	dB		dB	
LPeak(max)	90.9 dB	2019-04-23 13:57:43	dB		dB	

Overloads	Count	Duration	OBA Count	OBA Duration
	0	0:00:00:0	0	0:00:00:0

Statistics

LAF 5.0	52.4 dB
LAF 10.0	49.8 dB
LAF 33.3	46.4 dB
LAF 50.0	45.7 dB
LAF 66.6	45.1 dB
LAF 90.0	44.3 dB







Field Notes

4/23/2019
12:20
M-N Park West Baseline
clear 71º
free flowing
Terri Sciarro
Air Hub, LLC
quiet
612188.5 m E
3639630.15 m N
30 minutes
LxT - 003
pass

Comments: wooded

Measurement Report

Report Summary

Meter's File Name	CHAUNCYs.003		Computer's File Name	SLM_0004864_CHAUNCYs_003,00.ldbin	
Meter	LxT SE	0004864			
Firmware	2.302				
1.1	T				

Terri Sciarro Location Description HDR

Note 04/23/2019

 Start Time
 2019-04-23 12:20:21
 Duration
 0:38:16.6

 End Time
 2019-04-23 12:58:38
 Run Time
 0:38:16.6
 Pause Time 0:00:00.0

Results

Overall Metrics

LA _{eq} LAE EA	45.1 dB 78.7 dB 8.3 μPa²h	SEA	dB
LA _{peak} LAF _{max} LAF _{min}	89.8 dB 65.0 dB 36.2 dB	2019-04-23 12:20: 2019-04-23 12:53: 2019-04-23 12:33:	12
LA _{eq} LC _{eq} LAI _{eq}	45.1 dB 59.9 dB 49.4 dB	LC _{eq} - LA _{eq} LAI _{eq} - LA _{eq}	14.8 dB 4,3 dB
Exceedances	Count	Duration	
LAF > 85_0 dB	0	0:00:00.0	
LAF > 115.0 dB	в 0	0:00:00.0	
LApeak > 135	0 dB 0	0:00:00.0	
LApeak > 137	.0 dB 0	0:00:00.0	
I Annals > 140	0 40 0	0.00.00	

	LAI > 00.0 0D	0	0.00.00.0
	LAF > 115.0 dB	0	0:00:00.0
	LApeak > 135,0 dB	0	0:00:00.0
	LApeak > 137.0 dB	0	0:00:00.0
	LApeak > 140,0 dB	0	0:00:00.0
_			

Community Noise	LDN	LDay	LNight	
	45.1 dB	45.1 dB	0.0 dB	
	LDEN	LDav	LEve	

	LDEN	LDay	LEve	LNight
	45.1 dB	45.1 dB	dB	dB
D (

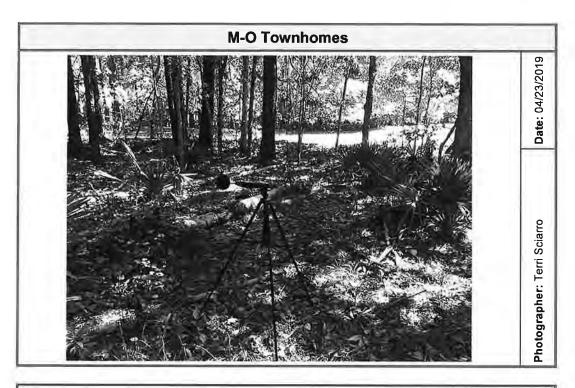
Any Data	Α	С	Z
	Level Time Stamp	Level Time Stamp	Level Time Stamp
Leq	45.1 dB	59.9 dB	dB
LF _(max)	65.0 dB 2019-04-23 12:53:12	dB	dB
LF _(min)	36.2 dB 2019-04-23 12:33:08	dB	dB
L _{Peak(ma}	x) 89.8 dB 2019-04-23 12:20:36	dB	dB

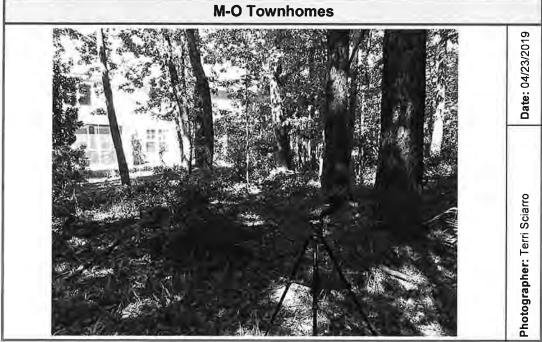
1 con(max)					
Overloads	Count	Duration	OBA Count	OBA Duration	
×	0	0:00:00.0	0	0:00:00.0	

Statistics

LAF 5.0	48.8 dB
LAF 10.0	45.7 dB
LAF 33,3	43.5 dB
LAF 50.0	42.5 dB
LAF 66.6	41.3 dB
LAF 90.0	39.7 dB







Field Notes

Date:	4/23/2019	
Start Time:	11:00	
Location:	M-O Townhomes	
Weather:	clear 71º	
Road Conditions:	free flowing	
Observer:	Terri Sciarro	
Observer	Air Hub, LLC	
Noise Conditions:	quiet	
Coordinates:	612010.00 m E	
Coordinates:	3639947.00 m N	
Time Range:	30 minutes	
Equipment ID:	LxT - 002	
Calibration:	pass	

Comments: wooded, several dogs, Parkwest Blvd shielded by townhomes, neighbor asking a lot of questions

Measurement Report

Report Summary

Meter's File Name CHAUNCYs.002

Meter LxT SE 0004864

Firmware 2.302

User Terri Sciarro

Description HDR Note 04/23/2019

Start Time 2019-04-23 11:00:55

End Time 2019-04-23 11:32:27

Duration 0:31:31.2 Run Time 0:31:26,8

Pause Time 0:00:04.4

Computer's File Name SLM_0004864_CHAUNCYs_002,00.ldbin

Location

Results

Overall Metrics

LA _{eq}	44.8 dB		
LAE	77.5 dB	SEA	dB
EA	6.3 µPa²h		
LA _{peak}	88.4 dB	2019-04-23 11:32:	15
LAF _{max}	75.6 dB	2019-04-23 11:32:	22
LAF _{min}	34.9 dB	2019-04-23 11:23:	35
LA _{eq}	44.8 dB		
LC _{eq}	57.2 dB	LC _{ea} - LA _{ea}	12.4 dB
LAI _{eq}	49.7 dB	LAI _{eq} - LA _{eq}	4.9 dB

Exceedances	Count	Duration
LAF > 85.0 dB	0	0:00:00.0
LAF > 115.0 dB	0	0:00:00.0
LApeak > 135,0 dB	0	0:00:00.0
LApeak > 137,0 dB	0	0:00:00.0
LApeak > 140,0 dB	0	0:00:00.0

Community Noise	LDN	LDay	LNight
	44.8 dB	44.8 dB	0.0 dB

LDEN	LDay	LEve	LNight
44.8 dB	44.8 dB	dB	dB

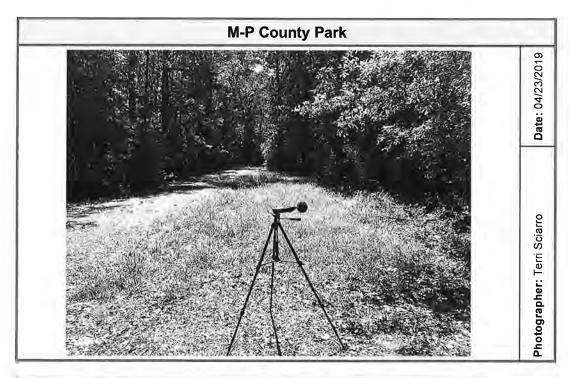
Any Data	Α		С		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
Leq	44.8 dB		57.2 dB		dB	
LF _(max)	75.6 dB	2019-04-23 11:32:22	dB		dB	
LF _(min)	34.9 dB	2019-04-23 11:23:35	dB		dB	
Lpeak(may)	88.4 dB	2019-04-23 11:32:15	dB		dB	

└Peak(max)	88.4 dB 2019-04-23 1	1:32:15	dB	dB
Overloads	Count	Duration 0:00:00.0	OBA Count	OBA Duration
	v	0.00.00.0	0	0.00.00.0

Statistics

LAF 5.0	47.5 dB
LAF 10.0	45.2 dB
LAF 33.3	41.5 dB
LAF 50 ₀ 0	40.4 dB
LAF 66-6	39.4 dB
LAF 90:0	37.8 dB







Field Notes

4/23/2019
2:55
M-P County Park
clear 71º
free flowing
Terri Sciarro
Air Hub, LLC
quiet
611903.5 m E
3637974.2 m N
30 minutes
LxT - 006
pass

Comments: wooded, SC-41 was audible but not visible

Measurement Report

Report Summary

Meter's File Name CHAUNCYs.006 Meter

Computer's File Name SLM_0004864_CHAUNCYs_006.00.ldbin LxT SE 0004864

Firmware User

Note

Description

2,302

Terri Sciarro

HDR

04/23/2019

Start Time 2019-04-23 14:55:12

End Time 2019-04-23 15:28:23

Duration 0:33:11.1 Run Time 0:33:11.1

Pause Time 0:00:00.0

Location

Results

Overall Metrics

LA _{eq}	51.1 dB		
LAE	84.1 dB	SEA dB	
EA	28.4 µPa²h		
LA _{peak}	86.9 dB	2019-04-23 15:28:20	
LAF _{max}	72.6 dB	2019-04-23 14:57:10	
LAF _{min}	41.8 dB	2019-04-23 15:02:55	
LA _{eq}	51.1 dB		
LC _{eq}	65.0 dB	LC _{eq} - LA _{eq} 13.9 dB	
LAI _{eq}	52.8 dB	LAI _{eq} - LA _{eq} 1.7 dB	

Exceedances	Count	Duration
LAF > 85.0 dB	0	0:00:00.0
LAF > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
I Apeak > 140 0 dB	0	0:00:00.0

Community Noise	LDN	LDay	LNight	
	51.1 dB	51 ₋ 1 dB	0.0 dB	
	LDEN	LDay	LEve	LNight
	51.1 dB	51.1 dB	dB	dB

Any Data	Α		С		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
Leq	51.1 dB		65.0 dB		dB	
LF _(max)	72.6 dB	2019-04-23 14:57:10	dB		dB	
LF _(min)	41.8 dB	2019-04-23 15:02:55	dB		dB	
Lp1/	86.9 dB	2019-04-23 15:28:20	dB		dB	

₩eak(max)	00.9 QD 2019-04-23 15	5:28:20	dB	dB
Overloads	Count	Duration	OBA Count	OBA Duration
	0	0:00:00.0	0	0:00:00.0
Statistics				

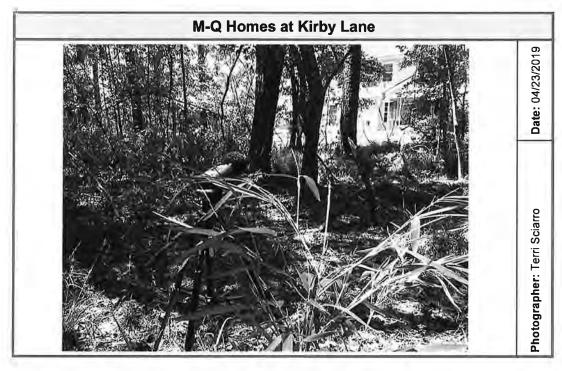
Statistics

53.9 dB
51.9 dB
49.9 dB
49.1 dB
48.4 dB
47.0 dB

HDR / SC-41 BRT Noise Measurements Air Hub Project No: CHS-17-062







Field Notes

Date:	4/23/2019		
Start Time:	1:10		
Location;	M-Q Homes at Kirby Lane		
Weather:	clear 71º		
Road Conditions:	free flowing		
Observer:	Terri Sciarro		
Observer	Air Hub, LLC		
Noise Conditions:	quiet		
Coordinates:	612218.00 m E		
Coordinates	3639116.00 m N		
Time Range:	30 minutes		
Equipment ID:	LxT - 004		
Calibration:	pass		

Comments: wooded, Parkwest Blvd shielded by homes

Measurement Report

Report Summary

 Meter's File Name
 CHAUNCYs,004
 Computer's File Name
 SLM_0004864_CHAUNCYs_004,00.ldbin

 Meter
 LxT SE
 0004864

 Firmware
 2.302

 User
 Terri Sciarro
 Location

Description HDR
Note 04/23/2019

Start Time 2019-04-23 13:10:03 Duration 0:34:19.6

End Time 2019-04-23 13:44:22 Run Time 0:34:19.6 Pause Time 0:00:00.0

Results

Overall Metrics

LAF 50.0

LAF 66.6

LAF 90.0

LA _{eq}	44.6 dB		
LAE	77,7 dB	SEA	dB
EA	6.5 μPa²h		
LA _{peak}	91.5 dB	2019-04-23 13:44	:20
LAFmax	69.1 dB	2019-04-23 13:44	:19
LAF _{min}	36.8 dB	2019-04-23 13:24	:26
LA _{eq}	44.6 dB		
LC _{eq}	57.9 dB	LC _{eq} - LA _{eq}	13.4 dB
LAI _{eq}	48.2 dB	LAI _{eq} - LA _{eq}	3.6 dB
Exceedances	Count	Duration	
LAF > 85.0 dE	0	0:00:00.0	
LAF > 115.0 d	В 0	0:00:00.0	
LApeak > 135	5.0 dB 0	0:00:00.0	

42.6 dB

41,5 dB

39.5 dB

LAF > 85.0 dB	0	0:00:00.0
LAF > 115,0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137,0 dB	0	0:00:00.0
LApeak > 140,0 dB	0	0:00:00.0
Community Noise	LDN	

Community Noise	LDN 44.6 dB	LDay 44,6 dB	LNight 0.0 dB	
	LDEN	LDay	LEve	LNight
	44.6 dB	44.6 dB	dB	dB

Any Data	Α	С	Z
	Level Time Stamp	Level Time Stamp	Level Time Stamp
L _{eq}	44.6 dB	57.9 dB	dB
LF _(max)	69.1 dB 2019-04-23 13:44:19	9 dB	dB
LF _(min)	36.8 dB 2019-04-23 13:24:26	6 dB	dB
L _{Peak(max)}	91.5 dB 2019-04-23 13:44:20	0 dB	dB

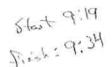
(111111)				
L _{Peak(max)}	91.5 dB 2019-04-23 1	3:44:20	dB	dB
Overloads	Count	Duration	OBA Count	OBA Duration
	0	0:00:00.0	0	0:00:00.0
Statistics				
LAF 5.0	47.5 dB			
LAF 10.0	46.1 dB			
LAF 33.3	43.6 dB			

R

TRAFFIC NOISE FIELD MEASUREMENT WORKSHEET

Leg 53.3

Project Name: SC 41 Sonny mid-to-high 70's				Site #: 1 2576 Larch Ln				Date: 5/2/2018		
Traffic Counts							Westbound North			
Autos:	M M				M.		-			52/208
Medium Trucks:	11								2/	8
Heavy Trucks:										
Buses:										
Motorcycles:										





Project Name: SC 41		Site #: 1	Date	:
Traffic Counts		Direction of Travel:	Eastbound	Southbound
Autos:	HH HH IHI I	M M M M M 86/344	HI HI HIT	M MM
Medium Trucks:	1 1/	4		
Heavy Trucks:				
Buses:				
Motorcycles:				

binds, hawk, rquirnels, geese, ducks, noise associated with 50 41 and adjust development

HDR

5

Leg 57.0

Project Name: SC 41			Site #: 2	bu / n	Date: 5/2/2018 Eastbound About bound		
Traffic Counts			3101 Kill Direction of	Travel:			
Autos:	H H	W W	1711	NII 11	37/148		
Medium Trucks:							
Heavy Trucks:	1	114					
Buses:							
Motorcycles:	1	1/4					

Project Name: SC 41		Site #:	2					Da	te:		
Traffic Counts		Directi	on of	Trave	el:	7	West	bou	nd	Soci	h bou
Autos:	LHI HT HT	H HU 1320		HH	M	##	1+14	H	HH	M	HTT H
Medium Trucks:	1 1/4										
leavy Trucks:											
duses:											

Crows, Circular saus, Field Personnel: Wayne Hall, Miles Spenrath

HDR

T

Lq 60.4

Project Name: SC 41		Site #: 3 1646 Bridnell Ln	Date: 5/2/2018
Traffic Counts		Direction of Travel:	Eastbound Northboond
Autos:	H1 H1 H1	M M M M	
Medium Trucks:	1/4		
Heavy Trucks:	1/4		
Buses:			
Motorcycles:			

Start: 16:30

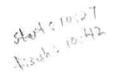
TRAFFIC NOISE FIELD MEASUREMENT WORKSHEET

Project Name: SC 41		Site #: 3	Date:
Traffic Counts		Direction of Travel:	Westbound Co-theod
Autos:		MI MI MI MI MI MI MI MI MI MI MI MI MI M	H WH WITH
Medium Trucks:	1) 2/8		
Heavy Trucks:	1/4		
Buses:			
Motorcycles:	1/4		

water Fountain 2 100', crows, gator

Leg 54.3

Project Name: SC 41			Site #: 4 2451 Draymon C+ Direction of Travel: Eastbound North			118	
Traffic Counts			Direction o	f Fravel:	Eastboun	d Northbon	und
Autos:	H 1111	64/	HH		THI IHL		
Medium Trucks:	1	1/4					
Heavy Trucks:			19				
Buses:							
Motorcycles:							



Project Name: SC 41		Site #: 4	Date:
Traffic Counts		Direction of Travel:	Westbound 5-11
Autos:		1 HH TH HH HH HH HH	
Medium Trucks:			
Heavy Trucks:	11 2/8		
Buses:			
Motorcycles:			

birds, crows, hitch trailers, hawk, air conditioner (10139)

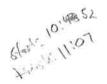
HDR

\bigvee

TRAFFIC NOISE FIELD MEASUREMENT WORKSHEET

Leg 51.0

Project Name: SC 41		Site #: 5) 01 - 1	Date: 5/2/2018
Traffic Counts		3029 Park w	vel: Easth	ound North based
Autos:	MH HU M	HHHI		
Medium Trucks:	1/4			
Heavy Trucks:				
Buses:				
Motorcycles:				



V

Project Name: SC 41		Site #: 5	Date: Hat 2 2018
Traffic Counts		Direction of Travel:	Westbound Southboard
Autos:		(308) H HT HT HT HT HT HT	IM IM IM IM IN
Medium Trucks:	1 1/4		
Heavy Trucks:			
Buses:			
Motorcycles:			

dogs berking, birds, people talking,

HDR



Leg 54.1

Project Name: SC 41		Site #: 6 3015 Dunes W Blod 1	Date: 5/2/2018
Traffic Counts		Direction of Travel:	Eastbound Northbood
Autos:		7/228	
Medium Trucks:	1/4		
Heavy Trucks:	1/4		
Buses:			
Motorcycles:	8		

HDR

Artill 38

TRAFFIC NOISE FIELD MEASUREMENT WORKSHEET

1	
M	
0 0	

Project Name: SC 41		Site #: 6	Date:
Traffic Counts		Direction of Travel:	Westbound Southboard
Autos:	HI HII III III III III	1/188 1/188	
Medium Trucks:			
Heavy Trucks:			
Buses:			
Motorcycles:			

HDR

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Appendix E - SCDOT Feasibility and Reasonableness Worksheets



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Project Name	SC Hwy 41 Corridor Impro	ovements		
Highway Traffi	c Noise Abatement Measure	Alt 1 - Barrier 7a		
<u>Feasibility</u>				
Number of Impa	cted Receivers 1	Number	of Benefited Receiv	vers 3
Percentage of Imnoise abatement	npacted Receivers that would ac measure	chieve a 5 dBA reduction	on from the proposed	100
NOTE:SCDOT P	oise abatement measure acoustic Policy indicates that 75% of the 5 dBA reduction for it to be acc	impacted receivers mu	st 🗵 Yes	□ No
Would a	any of the following issues limit	the ability of the abate	ment measure to ach	nieve the noise reduction goal?
	Topography	Yes	× No	
	Safety	☐ Yes	⊠ No	
	Drainage	☐ Yes	⊠ No	
	Utilities	☐ Yes	× No	
	Maintenance	Yes	\bowtie No	
	Access	☐ Yes	⊠ _{No}	
	Exposed Height of Wa	all Yes	⊠ No	
	If "Yes" was marked fo	or any of the questi	ons above, please	explain below.
iled Description				

Reasonableness

#1: Noise Reduction Design Goal	
Number of Benefited Receivers 3	Number of Benefited Receivers that achieve at least an 8 dBA reduction
Percentage of Benefited Receivers in the first two building rother proposed noise abatement measure. NOTE: SCDOT Polifirst two building rows must achieve at least a 8 dBA reduction	icy indicates that 80% of the benefited receivers in the
Does the proposed noise abatement measure meet the noise re If "Yes" is marked, continue to #2. If "No" is	duction design goal? Yes No No marked, then abatement is determined NOT to be reasonable.
#2: Cost Effectiveness	
Estimated cost per square foot for noise abatement measure	Estimated construction cost for noise abatement measure
Estimated cost per Benefited Receiver	
Based on the SCDOT policy of \$30,000 per Benefited Receiv NOTE: SCDOT Policy states that the preliminary noise analysis is be specific construction cost should be applied at a cost per square foot	pased on \$35.00 per square foot and a more project-
If "Yes" is marked, continue to #3. If "No" is	marked, then abatement is determined NOT to be reasonable.
#3: Viewpoints of the property owners and resident	s of the benefitted receivers
Number of Benefited Receivers (same as above)	
Number of Benefited Receivers in support of noise abatement measure	Percentage of Benefited Receivers in support of noise abatement measure
Number of Benefited Receivers opposed to noise abatement measure	Percentage of Benefited Receivers opposed to noise abatement measure
Number of Benefited Receivers that did not respond to solicitation on noise abatement measure	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure
Based on the viewpoints of the property owners and residents abatement measure be reasonable? NOTE: SCDOT Policy ir constructed unless greater than 50% of the benefited receptors	ndicates that the noise abatement shall be Yes No
Barrier wall system is 260 feet in width by 14 feet in height.	
Based on the above results from the detailed analysis, this abaten	nent feature is feasible but not reasonable.

Project Name SC	Hwy 41 Corridor Imp	provements					
Highway Traffic No	oise Abatement Measure	Alt 1 - Ba	rrier 9				
<u>Feasibility</u>							
Number of Impacted	Receivers 1		Number of l	Benefited	Receivers	14	
Percentage of Impac noise abatement mea	ted Receivers that would a	achieve a 5 dB.	A reduction fr	om the pro	oposed	100	
NOTE:SCDOT Polic	abatement measure acousty indicates that 75% of the BA reduction for it to be a	e impacted rec	eivers must	X	Yes	□ No	
Would any o	of the following issues lim	nit the ability of	the abatemen	nt measure	to achieve	the noise reduc	ction goal?
	Topography		☐ Yes	X	No		
	Safety		☐ Yes	\times	No		
	Drainage		☐ Yes	\times	No		
	Utilities		☐ Yes	\times	No		
	Maintenance		Yes	\times	No		
	Access		☐ Yes	\times	No		
	Exposed Height of V	Wall	Yes Yes	X	No		
	If "Yes" was marked	for any of th	e questions	above, p	lease expl	ain below.	
d Description							

Reasonableness

#1: Noise Reduction Design Goal	
Number of Benefited Receivers 10	Number of Benefited Receivers that achieve at least an 8 dBA reduction
Percentage of Benefited Receivers in the first two building ro the proposed noise abatement measure. NOTE: SCDOT Pol- first two building rows must achieve at least a 8 dBA reduction	icy indicates that 80% of the benefited receivers in the
Does the proposed noise abatement measure meet the noise re-	duction design goal? Yes No
If "Yes" is marked, continue to #2. If "No" is a	marked, then abatement is determined NOT to be reasonable.
#2: Cost Effectiveness	
Estimated cost per square foot for noise abatement measure	Estimated construction cost for noise abatement measure
Estimated cost per Benefited Receiver	
Based on the SCDOT policy of \$30,000 per Benefited Received NOTE: SCDOT Policy states that the preliminary noise analysis is be specific construction cost should be applied at a cost per square foot	ased on \$35.00 per square foot and a more project-
If "Yes" is marked, continue to #3. If "No" is a	marked, then abatement is determined NOT to be reasonable.
#3: Viewpoints of the property owners and residents	s of the benefitted receivers
Number of Benefited Receivers (same as above)	
Number of Benefited Receivers in support of noise abatement measure	Percentage of Benefited Receivers in support of noise abatement measure
Number of Benefited Receivers opposed to noise abatement measure	Percentage of Benefited Receivers opposed to noise abatement measure
Number of Benefited Receivers that did not respond to solicitation on noise abatement measure	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure
Based on the viewpoints of the property owners and residents abatement measure be reasonable? NOTE: SCDOT Policy in constructed unless greater than 50% of the benefited receptors	dicates that the noise abatement shall be Yes No
Barrier wall is 700 feet in width by 15 feet in height.	
Based on the above results from the detailed analysis, this abatem	nent feature is feasible but not reasonable.

Highway Traffic	c Noise Abatement Measure	Alt 1 - Barrie	r 10a/b/c		
Feasibility					
Number of Impac	cted Receivers 1	Nı	ımber of Bene	fited Receiver	rs
Percentage of Imnoise abatement	pacted Receivers that would act	hieve a 5 dBA re	duction from tl	ne proposed	
NOTE:SCDOT P	olicy indicates that 75% of the i 5 dBA reduction for it to be according	mpacted received		☐ Yes	□ No
Would a	ny of the following issues limit	the ability of the	abatement me	asure to achie	eve the noise reduction
	Topography		Yes	⊠ No	
	Safety	X	Yes	□ No	
	Drainage			⊠ No	
	Utilities		Yes	⊠ No	
	Maintenance		Yes	⊠ No	
	Access	\times	Yes	□ No	
	Exposed Height of Wa	all	Yes	⊠ No	
	If "Yes" was marked fo	or any of the qu	uestions abov	ve, please ex	xplain below.
e barrier to preser	ve driveway access would obstr	uct sightlines and	d cause safety i	ssues, therefo	ore the barrier would no

Reasonableness

#1: Noise Reduction Design Goal			
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction	
	NOTE: SCDOT Policy i	hat would achieve at least a 8 dBA reduction from ndicates that 80% of the benefited receivers in the or it to be reasonable.	
Does the proposed noise abatement meas		ion design goal? Yes No No ked, then abatement is determined NOT to be reasonable.	
IJ 105 is marked, conti	tue to 112. 15 110 15 mari	tea, then abatement is accommed 1101 to be reasonable.	
#2: Cost Effectiveness			
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure	
Estimated cost per Benefited Receiver			
NOTE: SCDOT Policy states that the prelimi	nary noise analysis is based	yould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.	No
If "Yes" is marked, contin	nue to #3. If "No" is mari	ked, then abatement is determined NOT to be reasonable.	
#3: Viewpoints of the property ow	rners and residents of	the benefitted receivers	
Number of Benefited Receivers (same as	s above)		
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure	
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure	
Number of Benefited Receivers that did respond to solicitation on noise abatement measure		Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure	
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	ites that the noise abatement shall be Yes	No
Barrier wall system is 700 feet in width, heig	ght was not investigated o	lue to engineering feasibility issues.	
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.	

L					
Highway Traffic	Noise Abatement Measure	Alt 1 - Barrier	11a/b		
Feasibility					
Number of Impac	ted Receivers 1	Nui	mber of Benefited	l Receivers	S
Percentage of Imp	pacted Receivers that would ach	nieve a 5 dBA red	uction from the p	roposed	
NOTE:SCDOT Po	ise abatement measure acoustic plicy indicates that 75% of the is dBA reduction for it to be aco	mpacted receivers	s must	Yes	□ No
Would an	y of the following issues limit	the ability of the a	ıbatement measur	e to achiev	ve the noise reduction
	Topography		Yes	No	
	Safety		Yes \square	No	
	Drainage		Yes 🗵	No	
	Utilities		Yes 🗵	No	
	Maintenance		Yes 🗵	No	
	Access		Yes \square	No	
	Exposed Height of Wa	.11	Yes	No	
	If "Yes" was marked fo	or any of the qu	estions above,	please ex _l	plain below.
e barrier to preserv	e driveway access would obstru	uct sightlines and	cause safety issu	es, therefor	re the barrier would no

Reasonableness

#1: Noise Reduction Design Goal			
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction	
	NOTE: SCDOT Policy		
Does the proposed noise abatement meas		ion design goal? Yes No No ked, then abatement is determined NOT to be reasonable.	
IJ 105 is marked, conti	ine to 112. 11 110 is main	tea, then abatement is actermined 1101 to be reasonable.	
#2: Cost Effectiveness			
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure	
Estimated cost per Benefited Receiver			
NOTE: SCDOT Policy states that the prelimi	nary noise analysis is based	would the abatement measure be reasonable? on \$35.00 per square foot and a more projected during the detailed noise abatement evaluation.	
If "Yes" is marked, contin	nue to #3. If "No" is mar	ked, then abatement is determined NOT to be reasonable.	
#3: Viewpoints of the property ow	ners and residents of	the benefitted receivers	
Number of Benefited Receivers (same as	s above)		
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure	
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure	
Number of Benefited Receivers that did respond to solicitation on noise abatement measure		Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure	
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	ites that the noise abatement shall be \square Yes \square No)
Barrier wall system is 615 feet in width, heig	ght was not investigated of	lue to engineering feasibility issues.	
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.	

Highway Traf	fic Noise Abatement Measure	Alt 1 - Barrier	13a/13b		
<u>Feasibility</u>					
Number of Imp	acted Receivers 2	Num	iber of Benefited	l Receiver	S
Percentage of I	mpacted Receivers that would acl t measure	nieve a 5 dBA redu	ction from the p	roposed	
NOTE:SCDOT	noise abatement measure acoustic Policy indicates that 75% of the i a 5 dBA reduction for it to be aco	mpacted receivers	must	Yes	□ No
Would	any of the following issues limit	the ability of the at	oatement measur	e to achiev	ve the noise reduction
	Topography	\square Y	es 🔀	No	
	Safety	× Y	'es	No	
	Drainage	Y	es 🗵	No	
	Utilities	□ Y	res 🗵	No	
	Maintenance		res 🗵	No	
	Access	× Y	es \square	No	
	Exposed Height of Wa	ıll 🗀 Y	es 🗵	No	
	If "Yes" was marked fo	or any of the que	stions above,	olease ex	plain below.
barrier to prese	erve driveway access would obstr	uct sightlines and c	ause safety issu	es, therefo	re the barrier would no

Reasonableness

#1: Noise Reduction Design Goal			
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction	
	NOTE: SCDOT Policy i		
Does the proposed noise abatement meas If "Yes" is marked, conting		ion design goal? Yes No ked, then abatement is determined NOT to be reasonab.	le.
,	V		
#2: Cost Effectiveness			
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure	
Estimated cost per Benefited Receiver			
NOTE: SCDOT Policy states that the prelimi	nary noise analysis is based	vould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.	es 🗆 No
If "Yes" is marked, contin	nue to #3. If "No" is mark	ked, then abatement is determined NOT to be reasonab	le.
#3: Viewpoints of the property ow	mers and residents of	the benefitted receivers	
Number of Benefited Receivers (same as	s above)		
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure	
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure	
Number of Benefited Receivers that did respond to solicitation on noise abatement measure	I	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure	
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	ites that the noise abatement shall be Yes	□ No
Barrier wall system is 640 feet in width, heig	ght was not investigated d	lue to engineering feasibility issues.	
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.	

Highway Traffic Noise Abatement Measure Alt 1 - Barrier 14a-f	Project Name						
Number of Impacted Receivers Percentage of Impacted Receivers that would achieve a 5 dBA reduction from the proposed noise abatement measure Is the proposed noise abatement measure acoustically feasible? NOTE:SCDOT Policy indicates that 75% of the impacted receivers must Yes No achieve at least a 5 dBA reduction for it to be acoustically feasible. Would any of the following issues limit the ability of the abatement measure to achieve the noise reduction Topography Yes No Safety Yes No Drainage Yes No Utilities Yes No Maintenance Yes No Access Yes No Exposed Height of Wall Yes No If "Yes" was marked for any of the questions above, please explain below.	Highway Traffic No	oise Abatement Measure	Alt 1 - Ba	rrier 14a-f			
Percentage of Impacted Receivers	<u>Feasibility</u>						
Is the proposed noise abatement measure acoustically feasible? NOTE:SCDOT Policy indicates that 75% of the impacted receivers must Yes No achieve at least a 5 dBA reduction for it to be acoustically feasible. Would any of the following issues limit the ability of the abatement measure to achieve the noise reduction Topography Yes No Safety Yes No Drainage Yes No Utilities Yes No Maintenance Yes No Access Yes No Exposed Height of Wall Yes No If "Yes" was marked for any of the questions above, please explain below.	Number of Impacted	Receivers 5		Number of	Benefited	Receiver	rs
NOTE:SCDOT Policy indicates that 75% of the impacted receivers must achieve at least a 5 dBA reduction for it to be acoustically feasible. Would any of the following issues limit the ability of the abatement measure to achieve the noise reduction Topography Yes No Safety Yes No Drainage Yes No Utilities Yes No Maintenance Yes No Access Yes No Exposed Height of Wall Yes No If "Yes" was marked for any of the questions above, please explain below.			achieve a 5 dB	A reduction f	rom the pi	roposed	
Topography Safety Yes No Drainage Yes No Utilities Yes No Maintenance Yes No Access Exposed Height of Wall Yes No If "Yes" was marked for any of the questions above, please explain below.	NOTE:SCDOT Polic	y indicates that 75% of th	e impacted rec	eivers must		Yes	□ No
Safety Drainage Utilities Maintenance Access Exposed Height of Wall Yes No Wes No No Yes No No Yes No No Yes No No Yes No No Exposed Height of Wall Yes No If "Yes" was marked for any of the questions above, please explain below.	Would any o	of the following issues lim	nit the ability o	f the abateme	nt measure	e to achie	ve the noise reduction
Drainage Yes No Utilities Yes No Maintenance Yes No Access Yes No Exposed Height of Wall Yes No If "Yes" was marked for any of the questions above, please explain below.		Topography		Yes	\times	No	
Utilities		Safety		× Yes		No	
Maintenance Yes No Access Yes No Exposed Height of Wall Yes No If "Yes" was marked for any of the questions above, please explain below.		Drainage		Yes		No	
Access Exposed Height of Wall Yes No If "Yes" was marked for any of the questions above, please explain below.		Utilities		Yes		No	
Exposed Height of Wall Yes No If "Yes" was marked for any of the questions above, please explain below.		Maintenance		Yes	\times	No	
If "Yes" was marked for any of the questions above, please explain below.		Access		× Yes		No	
		Exposed Height of	Wall	Yes	\times	No	
e barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would no		If "Yes" was marked	for any of th	e questions	s above, p	olease ex	plain below.
	e barrier to preserve d	riveway access would ob	struct sightline	s and cause s	afety issue	s, therefo	ore the barrier would no

Reasonableness

#1: Noise Reduction Design Goal			
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction	
the proposed noise abatement measure. first two building rows must achieve at least the second seco	NOTE: SCDOT Policy i east a 8 dBA reduction for		
Does the proposed noise abatement meas If "Yes" is marked, conting		ion design goal? Yes No ked, then abatement is determined NOT to be reasona.	ble.
112 C 4 F.CC 4:	· ·		
#2: Cost Effectiveness			
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure	
Estimated cost per Benefited Receiver			
NOTE: SCDOT Policy states that the prelimi	nary noise analysis is based	vould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.	Yes 🗆 No
If "Yes" is marked, contin	nue to #3. If "No" is mark	ked, then abatement is determined NOT to be reasona	ble.
#3: Viewpoints of the property ow	rners and residents of	the benefitted receivers	
Number of Benefited Receivers (same as	s above)		
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure	
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure	
Number of Benefited Receivers that did respond to solicitation on noise abatement measure	I	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure	
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be Yes	□ No
Barrier wall system is 1,000 feet in width, he	eight was not investigated	due to engineering feasibility issues.	
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.	

Project Name	C Hwy 41 Corridor Impro	ovements			
Highway Traffic I	Noise Abatement Measure	Alt 1 - Barr	ier 15a-e		
<u>Feasibility</u>					
Number of Impacte	ed Receivers 3		Number of E	Benefited Receive	ers
Percentage of Impa noise abatement me	cted Receivers that would acleasure	hieve a 5 dBA	reduction fro	om the proposed	
NOTE:SCDOT Poli	e abatement measure acoustic cy indicates that 75% of the i dBA reduction for it to be aco	impacted recei		□ Yes	□ No
Would any	of the following issues limit	the ability of t	he abatement	measure to achi	eve the noise reduction goal?
	Topography	[Yes	⊠ No	
	Safety	Ĺ	× Yes	□ No	
	Drainage	l I	⊥ Yes	⊠ No ⊠ No	
	Utilities	L [✓ Yes✓ Yes	✓ No✓ No	
	Maintenance Access		Yes Yes	□ No	
	Exposed Height of Wa	Г	Yes	No No	
	If "Yes" was marked fo	or any of the	questions a	above, please e	xplain below.
s in the barrier to preserve le.	If "Yes" was marked for				

Reasonableness

#1: Noise Reduction Design Goal	
Number of Benefited Receivers	Number of Benefited Receivers that achieve at least an 8 dBA reduction
Percentage of Benefited Receivers in the first two building rethe proposed noise abatement measure. NOTE: SCDOT Pofirst two building rows must achieve at least a 8 dBA reduction	licy indicates that 80% of the benefited receivers in the
Does the proposed noise abatement measure meet the noise re If "Yes" is marked, continue to #2. If "No" is	eduction design goal? Yes No marked, then abatement is determined NOT to be reasonable.
#2: Cost Effectiveness	
Estimated cost per square foot for noise abatement measure	Estimated construction cost for noise abatement measure
Estimated cost per Benefited Receiver	
Based on the SCDOT policy of \$30,000 per Benefited Receiv NOTE: SCDOT Policy states that the preliminary noise analysis is specific construction cost should be applied at a cost per square foot	based on \$35.00 per square foot and a more project- Yes Wo
If "Yes" is marked, continue to #3. If "No" is	marked, then abatement is determined NOT to be reasonable.
#3: Viewpoints of the property owners and resident	ts of the benefitted receivers
Number of Benefited Receivers (same as above)	
Number of Benefited Receivers in support of noise abatement measure	Percentage of Benefited Receivers in support of noise abatement measure
Number of Benefited Receivers opposed to noise abatement measure	Percentage of Benefited Receivers opposed to noise abatement measure
Number of Benefited Receivers that did not respond to solicitation on noise abatement measure	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure
Based on the viewpoints of the property owners and residents abatement measure be reasonable? NOTE: SCDOT Policy is constructed unless greater than 50% of the benefited receptor	ndicates that the noise abatement shall be Yes No
Barrier wall system is 800 feet in width, height was not investigated	ated due to engineering feasibility issues.
Based on the above results from the detailed analysis, this abater	ment feature is not feasible.

	SC IIWy 41 Collidol II				
Highway Traf	fic Noise Abatement Meas	ure Alt 1 - E	Barrier 16a-m		
<u>Feasibility</u>					
Number of Imp	pacted Receivers 11		Number of	Benefited Receiver	S
Percentage of I	impacted Receivers that wou nt measure	ld achieve a 5 d	BA reduction fi	rom the proposed	
NOTE:SCDOT	noise abatement measure acc Policy indicates that 75% of a 5 dBA reduction for it to b	f the impacted re	eceivers must	☐ Yes	□ No
Would	any of the following issues	limit the ability	of the abatemen	nt measure to achiev	ve the noise reduction
	Topography		Yes	× No	
	Safety		× Yes	□ No	
	Drainage		Yes	× No	
	Utilities		Yes	⊠ No	
	Maintenance		Yes	× No	
	Access		× Yes	□ No	
	Exposed Height	of Wall	Yes	⊠ No	
	If "Yes" was mark	ed for any of	the questions	above, please ex	plain below.
e barrier to pres	erve driveway access would	obstruct sightli	nes and cause sa	afety issues, therefor	re the barrier would no

Reasonableness

#1: Noise Reduction Design Goal			
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction	
the proposed noise abatement measure. first two building rows must achieve at l	NOTE: SCDOT Policy is east a 8 dBA reduction for		
Does the proposed noise abatement meas If "Yes" is marked, contin		ion design goal? Yes No ked, then abatement is determined NOT to be reasonable.	
112 C 4 E C 4:			
#2: Cost Effectiveness			
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure	
Estimated cost per Benefited Receiver			
NOTE: SCDOT Policy states that the prelimi	nary noise analysis is based	vould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.	ı
If "Yes" is marked, contin	nue to #3. If "No" is mar	ked, then abatement is determined NOT to be reasonable.	
#3: Viewpoints of the property ow	rners and residents of	the benefitted receivers	
Number of Benefited Receivers (same as	s above)		
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure	
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure	
Number of Benefited Receivers that did respond to solicitation on noise abatement measure		Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure	
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be \square Yes \square N	[о
Barrier wall system is 2,415 feet in width, he	eight was not investigated	due to engineering feasibility issues.	
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.	

Project Name	C Hwy 41 Corridor Impi				
Highway Traffic	Noise Abatement Measure	Alt 1 - Barrie	er 17a-l		
Feasibility					
Number of Impact	ed Receivers 9	N	umber of Be	nefited Receive	ers
Percentage of Imp	acted Receivers that would acted acted	chieve a 5 dBA re	eduction fron	n the proposed	
	se abatement measure acoust licy indicates that 75% of the	=	ers must	☐ Yes	□ No
achieve at least a 5	dBA reduction for it to be ac	oustically feasibl	e.		
Would an	y of the following issues limi	t the ability of the	e abatement r	neasure to achi	eve the noise reduction go
	Topography		Yes	× No	
	Safety	X	Yes	□ No	
	Drainage		Yes	× No	
	Utilities		Yes	⊠ No	
	Maintenance		Yes	\bowtie No	
	Access	X	Yes	□ No	
	Exposed Height of W	all \Box	Yes	× No	
	If "Yes" was marked f	for any of the q	uestions ab	oove, please e	xplain below.
			1 0	ty issues theref	Fore the barrier would not
the barrier to preserve	e driveway access would obst	ruct sightlines an	d cause safet	ly issues, therei	
the barrier to preserve	e driveway access would obst	ruct sightlines an	d cause safet	ty 155des, therei	

Reasonableness

#1: Noise Reduction Design Goal			
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction	
the proposed noise abatement measure. first two building rows must achieve at least the second seco	NOTE: SCDOT Policy i east a 8 dBA reduction for		
Does the proposed noise abatement meas If "Yes" is marked, conting		ion design goal?	ble.
112 C 4 F.CC 4:	· ·		
#2: Cost Effectiveness			
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure	
Estimated cost per Benefited Receiver			
NOTE: SCDOT Policy states that the prelimi	nary noise analysis is based	vould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.	es 🗆 No
If "Yes" is marked, contin	nue to #3. If "No" is mark	ked, then abatement is determined NOT to be reasonal	ole.
#3: Viewpoints of the property ow	rners and residents of	the benefitted receivers	
Number of Benefited Receivers (same as	s above)		
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure	
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure	
Number of Benefited Receivers that did respond to solicitation on noise abatement measure	I	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure	
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be Yes	□ No
Barrier wall system is 2,260 feet in width, he	eight was not investigated	due to engineering feasibility issues.	
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.	

	Г			
Highway Traf	fic Noise Abatement Measure	Alt 1 - Barrier 18a	/18b	
<u>Feasibility</u>				
Number of Imp	pacted Receivers 1	Number	of Benefited Receive	rs
Percentage of I noise abatemen	mpacted Receivers that would ach	tieve a 5 dBA reduction	n from the proposed	
NOTE:SCDOT	noise abatement measure acoustic Policy indicates that 75% of the in a 5 dBA reduction for it to be acoustic	mpacted receivers mus	Yes	□ No
Would	any of the following issues limit t	he ability of the abater	nent measure to achie	eve the noise reduction
	Topography	☐ Yes	⊠ No	
	Safety	× Yes	□ No	
	Drainage	Yes	⊠ No	
	Utilities	Yes	⊠ No	
	Maintenance	Yes Yes	⊠ No	
	Access	× Yes	□ No	
	Exposed Height of Wa	ll Yes	⊠ No	
	If "Yes" was marked fo	r any of the questio	ns above, please ex	xplain below.
e barrier to pres	erve driveway access would obstru	act sightlines and cause	safety issues, therefo	ore the barrier would no

Reasonableness

#1: Noise Reduction Design Goal		
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction
the proposed noise abatement measure. first two building rows must achieve at least	NOTE: SCDOT Policy i east a 8 dBA reduction for	
Does the proposed noise abatement meas If "Yes" is marked, contin		ion design goal? Yes No
·	V	
#2: Cost Effectiveness		
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure
Estimated cost per Benefited Receiver		
NOTE: SCDOT Policy states that the prelimi	nary noise analysis is based	rould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.
If "Yes" is marked, contin	nue to #3. If "No" is mark	ted, then abatement is determined NOT to be reasonable.
#3: Viewpoints of the property ow	ners and residents of	the benefitted receivers
Number of Benefited Receivers (same as	s above)	
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure
Number of Benefited Receivers that did respond to solicitation on noise abateme measure		Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be Yes No
Barrier wall system is 360 feet in width, heig	ght was not investigated d	ue to engineering feasibility issues.
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.

Project Name	C Hwy 41 Corridor Improver			
Highway Traffic N	Noise Abatement Measure Alt	1 - Barrier 19a/19	b	
<u>Feasibility</u>				
Number of Impacte	d Receivers 2	Number of I	Benefited Receiver	rs
Percentage of Impa noise abatement me	cted Receivers that would achieve	e a 5 dBA reduction fr	om the proposed	
NOTE:SCDOT Poli	e abatement measure acoustically cy indicates that 75% of the impa dBA reduction for it to be acoustic	cted receivers must	☐ Yes	□ No
Would any	of the following issues limit the a	bility of the abatemen	nt measure to achie	eve the noise reduction goal?
	Topography	Yes	⊠ No	
	Safety	× Yes	□ No	
	Drainage	☐ Yes	⊠ No	
	Utilities	☐ Yes	⊠ No	
	Maintenance	Yes	⊠ No	
	Access	× Yes	□ No	
	Exposed Height of Wall	☐ Yes	⊠ No	
	If "Yes" was marked for an	ny of the questions	above, please ex	xplain below.
in the barrier to preserve	driveway access would obstruct s	ightlines and cause sa	fety issues, therefo	ore the barrier would not be

Reasonableness

#1: Noise Reduction Design Goal			
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction	
the proposed noise abatement measure. first two building rows must achieve at least the second seco	NOTE: SCDOT Policy i east a 8 dBA reduction for		
Does the proposed noise abatement meas If "Yes" is marked, conting		ion design goal?	
112 C 4 E C 4:	·		
#2: Cost Effectiveness			
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure	
Estimated cost per Benefited Receiver			
NOTE: SCDOT Policy states that the prelimi	nary noise analysis is based	Yould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.	□ No
If "Yes" is marked, contin	nue to #3. If "No" is mark	ked, then abatement is determined NOT to be reasonable.	
#3: Viewpoints of the property ow	ners and residents of	the benefitted receivers	
Number of Benefited Receivers (same as	s above)		
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure	
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure	
Number of Benefited Receivers that did respond to solicitation on noise abatement measure	I	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure	
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be Yes	□ No
Barrier wall system is 575 feet in width, heig	ght was not investigated d	lue to engineering feasibility issues.	
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.	

<u>Feasibility</u>			_				
Number of Imp	pacted Receivers	2	N	umber of	Benefited	l Receivers	4
Percentage of l		rs that would achie	∟ eve a 5 dBA re	eduction f	rom the p	roposed	100
NOTE:SCDOT	Policy indicates t	measure acoustical hat 75% of the important for it to be acous	pacted receive		X	Yes	□ No
Would	l any of the follow	ing issues limit the	e ability of the	e abateme	nt measur	e to achieve	e the noise reduction
	Тород	_		Yes	X	No	
	Safety			Yes	\times	No	
	Draina	ige		Yes	\times	No	
	Utiliti	es		Yes	X	No	
	Mainte	enance		Yes	\times	No	
	Acces	S		Yes	\times	No	
	Expos	ed Height of Wall		Yes	\times	No	
			amu a£4ha a	uestions	ahove i	nlaasa avn	lain below.

Reasonableness

#1: Noise Reduction Design Goal			
Number of Benefited Receivers 4		Number of Benefited Receivers that achieve at least an 8 dBA reduction	4
	NOTE: SCDOT Policy i	hat would achieve at least a 8 dBA reduction from ndicates that 80% of the benefited receivers in the or it to be reasonable.	
Does the proposed noise abatement meas		ion design goal?	onable
ij 105 is marked, comi	10 17 17 15 Heart	tea, then dodiement is determined 1101 to be reason	
#2: Cost Effectiveness			
Estimated cost per square foot for noise abatement measure	35	Estimated construction cost for noise abatement measure 630	0,000
Estimated cost per Benefited Receiver	157,500		
NOTE: SCDOT Policy states that the prelimination	inary noise analysis is based	vould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.	Yes 🗵 No
If "Yes" is marked, contin	nue to #3. If "No" is mark	ked, then abatement is determined NOT to be reaso	onable.
#3: Viewpoints of the property ow Number of Benefited Receivers (same a		the benefitted receivers	
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure	,
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure	
Number of Benefited Receivers that did respond to solicitation on noise abatement measure		Percentage of Benefited Receivers that did not respond to solicitation on nois abatement measure	
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be $\ \square$ Y	es 🗆 No
Barrier wall is 1,200 feet in width by 15 feet	t in height.		
Based on the above results from the detailed	analysis, this abatement	feature is feasible but not reasonable.	

L		A14.1 D. : 21		
Highway Traffic	e Noise Abatement Measure	Alt 1 - Barrier 21		
<u>Feasibility</u>				
Number of Impac	eted Receivers 1	Number o	of Benefited Receivers	1
Percentage of Imnoise abatement	pacted Receivers that would ach	nieve a 5 dBA reduction	from the proposed	100
NOTE:SCDOT P	olicy indicates that 75% of the in 5 dBA reduction for it to be according to the inferior of t	mpacted receivers must	⊠ Yes	□ No
Would a	ny of the following issues limit	the ability of the abaten	nent measure to achieve	e the noise reduction g
	Topography	Yes	× No	
	Safety	Yes	No	
	Drainage	Yes	× No	
	Utilities	Yes	No No	
	Maintenance	Yes	× No	
	Access	☐ Yes	× No	
	Exposed Height of Wa	ıll Yes	⊠ No	
	If "Yes" was marked fo	or any of the question	ıs above, please exp	olain below.
escription				

Reasonableness

#1: Noise Reduction Design Goal			
Number of Benefited Receivers 1		Number of Benefited Receivers that achieve at least an 8 dBA reduction	0
the proposed noise abatement measure. NO first two building rows must achieve at least Does the proposed noise abatement measure	TE: SCDOT Policy in ta 8 dBA reduction for meet the noise reduction		he
If Tes is marked, continue	10 #2. 1j 110 is mark	eu, men dodiement is determined 1v01 to be ret	isonavie.
#2: Cost Effectiveness			
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure	
Estimated cost per Benefited Receiver			
Based on the SCDOT policy of \$30,000 per NOTE: SCDOT Policy states that the preliminary specific construction cost should be applied at a c	y noise analysis is based	on \$35.00 per square foot and a more project-	☐ Yes ☐ No
If "Yes" is marked, continue	to #3. If "No" is mark	ed, then abatement is determined NOT to be red	asonable.
#3: Viewpoints of the property owner	rs and residents of	the benefitted receivers	
Number of Benefited Receivers (same as ab	ove)		
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measurement	are
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure	
Number of Benefited Receivers that did no respond to solicitation on noise abatement measure	t	Percentage of Benefited Receivers th did not respond to solicitation on no abatement measure	
Based on the viewpoints of the property own abatement measure be reasonable? NOTE: constructed unless greater than 50% of the be	SCDOT Policy indicate	tes that the noise abatement shall be	Yes
Barrier wall is 212 feet in width by 25 feet in he	eight.		
Based on the above results from the detailed and	alysis, this abatement f	eature is feasible but not reasonable.	

Highway Traffic Noise Abatement Measure Alt 1	- Barrier 22a-d		
Feasibility			
Number of Impacted Receivers 2	Number of	Benefited Receiver	rs
Percentage of Impacted Receivers that would achieve a noise abatement measure	5 dBA reduction fi	rom the proposed	
Is the proposed noise abatement measure acoustically feat NOTE:SCDOT Policy indicates that 75% of the impacted achieve at least a 5 dBA reduction for it to be acoustically	d receivers must	☐ Yes	□ No
Would any of the following issues limit the abil	ity of the abatemen	nt measure to achie	ve the noise reduction g
Topography	Yes	× No	
Safety	× Yes	□ No	
Drainage	☐ Yes	⊠ No	
Utilities	Yes	⊠ No	
Maintenance	☐ Yes	⊠ No	
Access	× Yes	□ No	
Exposed Height of Wall	Yes	× No	
If "Yes" was marked for any	of the questions	above, please ex	plain below.
he barrier to preserve driveway access would obstruct sigh	ntlines and cause sa	afety issues, therefo	re the barrier would not

Reasonableness

#1: Noise Reduction Design Goal		
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction
	NOTE: SCDOT Policy in	
Does the proposed noise abatement meas If "Yes" is marked, contin		ion design goal? Yes No
·	V	
#2: Cost Effectiveness		
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure
Estimated cost per Benefited Receiver		
NOTE: SCDOT Policy states that the prelimi	nary noise analysis is based	rould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.
If "Yes" is marked, contin	nue to #3. If "No" is mark	ted, then abatement is determined NOT to be reasonable.
#3: Viewpoints of the property ow	ners and residents of	the benefitted receivers
Number of Benefited Receivers (same as	s above)	
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure
Number of Benefited Receivers that did respond to solicitation on noise abatement measure		Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be
Barrier wall system is 424 feet in width, heig	ght was not investigated d	ue to engineering feasibility issues.
Based on the above results from the detailed	analysis, this abatement t	feature is not feasible.

Date: June 29, 2020 SC Hwy 41 Corridor Improvements **Project Name** Alt 1 - Barrier 23a-e **Highway Traffic Noise Abatement Measure** Feasibility Number of Impacted Receivers Number of Benefited Receivers Percentage of Impacted Receivers that would achieve a 5 dBA reduction from the proposed noise abatement measure Is the proposed noise abatement measure acoustically feasible? ☐ Yes No NOTE:SCDOT Policy indicates that 75% of the impacted receivers must achieve at least a 5 dBA reduction for it to be acoustically feasible. Would any of the following issues limit the ability of the abatement measure to achieve the noise reduction goal? □ Yes Topography No × Yes No Safety Yes Drainage No Yes No Utilities Yes Maintenance \bowtie Yes No Access No □ Yes Exposed Height of Wall If "Yes" was marked for any of the questions above, please explain below. Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be

Reasonableness

feasible.

#1: Noise Reduction Design Goal		
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction
the proposed noise abatement measure. first two building rows must achieve at least	NOTE: SCDOT Policy i east a 8 dBA reduction for	
Does the proposed noise abatement meas If "Yes" is marked, contin		ion design goal? Yes No
·	V	
#2: Cost Effectiveness		
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure
Estimated cost per Benefited Receiver		
NOTE: SCDOT Policy states that the prelimi	nary noise analysis is based	rould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.
If "Yes" is marked, contin	nue to #3. If "No" is mark	ted, then abatement is determined NOT to be reasonable.
#3: Viewpoints of the property ow	ners and residents of	the benefitted receivers
Number of Benefited Receivers (same as	s above)	
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure
Number of Benefited Receivers that did respond to solicitation on noise abateme measure	I	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be Yes No
Barrier wall system is 515 feet in width, heig	ght was not investigated d	ue to engineering feasibility issues.
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.

Alt 1 - Barrier 24a-d	Project Name SC 11wy 41					
Number of Impacted Receivers Percentage of Impacted Receivers that would achieve a 5 dBA reduction from the proposed noise abatement measure Is the proposed noise abatement measure acoustically feasible? NOTE:SCDOT Policy indicates that 75% of the impacted receivers must Yes No achieve at least a 5 dBA reduction for it to be acoustically feasible. Would any of the following issues limit the ability of the abatement measure to achieve the noise reduction Topography Yes No Safety Yes No Drainage Yes No Utilities Yes No Maintenance Yes No Access Yes No Exposed Height of Wall Yes No If "Yes" was marked for any of the questions above, please explain below.	Highway Traffic Noise Abat	ement Measure	Alt 1 - Barrie	r 24a-d		
Number of Impacted Receivers Percentage of Impacted Receivers that would achieve a 5 dBA reduction from the proposed noise abatement measure Is the proposed noise abatement measure acoustically feasible? NOTE:SCDOT Policy indicates that 75% of the impacted receivers must Would any of the following issues limit the ability of the abatement measure to achieve the noise reduction to topography Yes No Safety Yes No Drainage Yes No Maintenance Yes No Maintenance Yes No Access Exposed Height of Wall If "Yes" was marked for any of the questions above, please explain below.	<u>Feasibility</u>					
Is the proposed noise abatement measure acoustically feasible? NOTE:SCDOT Policy indicates that 75% of the impacted receivers must achieve at least a 5 dBA reduction for it to be acoustically feasible. Would any of the following issues limit the ability of the abatement measure to achieve the noise reduction Topography Yes No Safety Yes No Drainage Yes No Utilities Yes No Maintenance Yes No Maintenance Yes No Exposed Height of Wall Yes No If "Yes" was marked for any of the questions above, please explain below.	Number of Impacted Receiver	rs 3	N	umber of Ben	efited Receive	ers
NOTE:SCDOT Policy indicates that 75% of the impacted receivers must achieve at least a 5 dBA reduction for it to be acoustically feasible. Would any of the following issues limit the ability of the abatement measure to achieve the noise reduction Topography Yes No Safety Yes No Drainage Yes No Utilities Yes No Maintenance Yes No Access Yes No Exposed Height of Wall Yes No No Historian No No Historian No No Historian No No No No Historian No No No No No No No No No No No No No		vers that would ach	nieve a 5 dBA re	duction from	the proposed	
Topography Safety Yes No Drainage Yes No Utilities Yes No Maintenance Yes No Access Xes Yes No Exposed Height of Wall Yes No If "Yes" was marked for any of the questions above, please explain below.	NOTE:SCDOT Policy indicate	es that 75% of the in	mpacted receive		☐ Yes	□ No
Safety Drainage Utilities Maintenance Access Exposed Height of Wall Yes No No No Yes No No Yes No No No Yes No No Exposed Height of Wall Yes No If "Yes" was marked for any of the questions above, please explain below.	Would any of the follo	owing issues limit	the ability of the	abatement m	easure to achi	leve the noise reduction
Drainage	Тор	ography		Yes	× No	
Utilities	Safe	ety	\times	Yes		
Maintenance Access Yes No Exposed Height of Wall Yes No If "Yes" was marked for any of the questions above, please explain below.	Dra	inage		Yes		
Access Exposed Height of Wall Yes No If "Yes" was marked for any of the questions above, please explain below.	Util	ities		Yes		
Exposed Height of Wall Yes No If "Yes" was marked for any of the questions above, please explain below.	Mai	ntenance		Yes	⊠ No	
If "Yes" was marked for any of the questions above, please explain below.	Acc	ess	\succeq	Yes		
	Exp	osed Height of Wa	ıll	Yes	⊠ No	
e barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would	If "Yes	" was marked fo	or any of the q	uestions abo	ove, please e	explain below.
		access would obstru	uct sightlines and	d cause safety	issues, theref	fore the barrier would n
	e barrier to preserve driveway a					

Reasonableness

#1: Noise Reduction Design Goal			
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction	
the proposed noise abatement measure. first two building rows must achieve at least the second seco	NOTE: SCDOT Policy i east a 8 dBA reduction for		
Does the proposed noise abatement meas If "Yes" is marked, conting		ion design goal?	<i>2</i> .
·	V		
#2: Cost Effectiveness		1	
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure	
Estimated cost per Benefited Receiver			
NOTE: SCDOT Policy states that the prelimi	nary noise analysis is based	vould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.	s 🗆 No
If "Yes" is marked, contin	nue to #3. If "No" is mark	ked, then abatement is determined NOT to be reasonable	2.
#3: Viewpoints of the property ow	mers and residents of	the benefitted receivers	
Number of Benefited Receivers (same as	s above)		
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure	
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure	
Number of Benefited Receivers that did respond to solicitation on noise abatement measure	I	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure	
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be Yes	□ No
Barrier wall system is 740 feet in width, heig	ght was not investigated d	lue to engineering feasibility issues.	
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.	

Highway Traffic Nois	e Abatement Measure	t 1 - Barrier 25a-d		
<u>Feasibility</u>				
Number of Impacted F	eceivers 2	Number of	Benefited Receive	rs
Percentage of Impacte noise abatement measurement	d Receivers that would achievare	re a 5 dBA reduction f	rom the proposed	
NOTE:SCDOT Policy	patement measure acoustically indicates that 75% of the impa	acted receivers must	☐ Yes	□ No
achieve at least a 5 dBA	a reduction for it to be acousti	cally feasible.		
Would any of	the following issues limit the	ability of the abatement	nt measure to achie	eve the noise reduction g
	Topography	Yes	× No	
	Safety	× Yes	□ No	
	Drainage	☐ Yes	⊠ No	
	Utilities	Yes	⊠ No	
	Maintenance	Yes	× No	
	Access	× Yes	□ No	
	Exposed Height of Wall	☐ Yes	⊠ No	
I	f "Yes" was marked for a	ny of the questions	above, please ex	xplain below.
	11 1 4 4	sightlines and cause sa	afety issues, therefore	ore the barrier would not

Reasonableness

#1: Noise Reduction Design Goal		
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction
	NOTE: SCDOT Policy in	
Does the proposed noise abatement measure of "Yes" is marked, continuous		ion design goal? Yes No
·	V	
#2: Cost Effectiveness		
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure
Estimated cost per Benefited Receiver		
NOTE: SCDOT Policy states that the prelimin	nary noise analysis is based	rould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.
If "Yes" is marked, contin	ue to #3. If "No" is mark	ted, then abatement is determined NOT to be reasonable.
#3: Viewpoints of the property ow	ners and residents of	the benefitted receivers
Number of Benefited Receivers (same as	s above)	
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure
Number of Benefited Receivers that did respond to solicitation on noise abateme measure		Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure
Based on the viewpoints of the property of abatement measure be reasonable? NOTI constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be
Barrier wall system is 397 feet in width, heig	tht was not investigated d	ue to engineering feasibility issues.
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.

Date: June 29, 2020 SC Hwy 41 Corridor Improvements **Project Name** Alt 1 - Barrier 26a-d **Highway Traffic Noise Abatement Measure** Feasibility Number of Impacted Receivers Number of Benefited Receivers Percentage of Impacted Receivers that would achieve a 5 dBA reduction from the proposed noise abatement measure Is the proposed noise abatement measure acoustically feasible? ☐ Yes No NOTE:SCDOT Policy indicates that 75% of the impacted receivers must achieve at least a 5 dBA reduction for it to be acoustically feasible. Would any of the following issues limit the ability of the abatement measure to achieve the noise reduction goal? □ Yes Topography No × Yes No Safety Yes Drainage No Yes No Utilities Yes Maintenance \bowtie Yes No Access No □ Yes Exposed Height of Wall If "Yes" was marked for any of the questions above, please explain below. Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be

Reasonableness

feasible.

#1: Noise Reduction Design Goal			
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction	
the proposed noise abatement measure. first two building rows must achieve at least the second seco	NOTE: SCDOT Policy i east a 8 dBA reduction for		
Does the proposed noise abatement meas If "Yes" is marked, conting		ion design goal?	ole.
112 C 4 E C 4:	·		
#2: Cost Effectiveness			
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure	
Estimated cost per Benefited Receiver			
NOTE: SCDOT Policy states that the prelimi	nary noise analysis is based	vould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.	es 🗆 No
If "Yes" is marked, contin	nue to #3. If "No" is mark	ked, then abatement is determined NOT to be reasonab	ole.
#3: Viewpoints of the property ow	mers and residents of	the benefitted receivers	
Number of Benefited Receivers (same as	s above)		
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure	
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure	
Number of Benefited Receivers that did respond to solicitation on noise abatement measure	I	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure	
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	ites that the noise abatement shall be Yes	□ No
Barrier wall system is 500 feet in width, heig	ght was not investigated d	lue to engineering feasibility issues.	
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.	

Date: June 29, 2020 SC Hwy 41 Corridor Improvements **Project Name** Alt 1 - Barrier 28a-d **Highway Traffic Noise Abatement Measure** Feasibility Number of Impacted Receivers Number of Benefited Receivers Percentage of Impacted Receivers that would achieve a 5 dBA reduction from the proposed noise abatement measure Is the proposed noise abatement measure acoustically feasible? ☐ Yes No NOTE:SCDOT Policy indicates that 75% of the impacted receivers must achieve at least a 5 dBA reduction for it to be acoustically feasible. Would any of the following issues limit the ability of the abatement measure to achieve the noise reduction goal? □ Yes Topography No × Yes No Safety Yes Drainage No Yes No Utilities Yes Maintenance \bowtie Yes No Access No □ Yes Exposed Height of Wall If "Yes" was marked for any of the questions above, please explain below. Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be

Reasonableness

feasible.

#1: Noise Reduction Design Goal			
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction	
	NOTE: SCDOT Policy i		
Does the proposed noise abatement meas If "Yes" is marked, conting		ion design goal?	le.
· ·	J		
#2: Cost Effectiveness			
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure	
Estimated cost per Benefited Receiver			
NOTE: SCDOT Policy states that the prelimi	nary noise analysis is based	on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.	es 🗆 No
If "Yes" is marked, contin	nue to #3. If "No" is mark	ked, then abatement is determined NOT to be reasonab	le.
#3: Viewpoints of the property ow	ners and residents of	the benefitted receivers	
Number of Benefited Receivers (same as	s above)		
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure	
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure	
Number of Benefited Receivers that did respond to solicitation on noise abatement measure	I	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure	
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be Yes	□ No
Barrier wall system is 710 feet in width, heig	ght was not investigated d	lue to engineering feasibility issues.	
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.	

	oise Abatement Measure					
<u>Feasibility</u>						
Number of Impacted	Receivers 11		Number of E	Benefited	l Receiver	es 22
Percentage of Impac noise abatement mea	ted Receivers that would ac sure	chieve a 5 dB	A reduction fro	om the p	roposed	100
NOTE:SCDOT Polic	abatement measure acoust y indicates that 75% of the BA reduction for it to be ac	impacted rec	eivers must	X	Yes	□ No
Would any o	of the following issues limi	t the ability of	the abatement	t measur	e to achie	ve the noise reduction g
	Topography		☐ Yes	\times	No	
	Safety		Yes	\times	No	
	Drainage		Yes	\times	No	
	Utilities		Yes	\times	No	
	Maintenance		☐ Yes	\times	No	
	Access		Yes	\times	No	
	Exposed Height of W	Vall	Yes	X	No	
	If "Yes" was marked f	for any of th	e questions a	above, p	olease ex	plain below.
escription						

Reasonableness

#1: Noise Reduction Design Goal						
Number of Benefited Receivers 22	Number of Benefited Receivers that achieve at least an 8 dBA reduction					
Percentage of Benefited Receivers in the first two building root the proposed noise abatement measure. NOTE: SCDOT Polifirst two building rows must achieve at least a 8 dBA reduction	cy indicates that 80% of the benefited receivers in the					
Does the proposed noise abatement measure meet the noise red If "Yes" is marked, continue to #2. If "No" is n	duction design goal? Yes No marked, then abatement is determined NOT to be reasonable.					
#2: Cost Effectiveness						
Estimated cost per square foot for noise abatement measure	Estimated construction cost for noise abatement measure 563,325					
Estimated cost per Benefited Receiver 25,606						
Based on the SCDOT policy of \$30,000 per Benefited Receiver, would the abatement measure be reasonable? NOTE: SCDOT Policy states that the preliminary noise analysis is based on \$35.00 per square foot and a more project- specific construction cost should be applied at a cost per square foot basis during the detailed noise abatement evaluation. Yes Ves No						
If "Yes" is marked, continue to #3. If "No" is n	narked, then abatement is determined NOT to be reasonable.					
#3: Viewpoints of the property owners and residents	s of the benefitted receivers					
Number of Benefited Receivers (same as above)						
Number of Benefited Receivers in support of noise abatement measure	Percentage of Benefited Receivers in support of noise abatement measure					
Number of Benefited Receivers opposed to noise abatement measure	Percentage of Benefited Receivers opposed to noise abatement measure					
Number of Benefited Receivers that did not respond to solicitation on noise abatement measure	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure					
Based on the viewpoints of the property owners and residents abatement measure be reasonable? NOTE: SCDOT Policy in constructed unless greater than 50% of the benefited receptors	dicates that the noise abatement shall be					
Barrier wall is 925 feet in width by 17.4 feet in height.						
Based on the above results of the detailed analysis, this abatement decision on the barrier will be made after conclusion of the public	t feature is feasible and reasonable. If Alternative 7a is selected, a final involvement portion of the project.					

Highway Traffic Noise Abatement Me	asure Alt 7	a - Barrier 2		
<u>Feasibility</u>				
Number of Impacted Receivers 5		Number of E	Benefited Receive	rs 7
Percentage of Impacted Receivers that w noise abatement measure	ould achieve a	5 dBA reduction fro	om the proposed	100
Is the proposed noise abatement measure NOTE:SCDOT Policy indicates that 75% achieve at least a 5 dBA reduction for it to	of the impact	ed receivers must	⊠ Yes	□ No
Would any of the following issu			t magazina ta aahis	ave the noise reduction of
Topography	es mint the abi	Yes	No	eve the hoise reduction g
Safety		Yes	× No	
Drainage		Yes	× No	
Utilities		Yes	× No	
Maintenance		Yes	× No	
Access		Yes	× No	
Exposed Heigh	nt of Wall	Yes	⊠ No	
If "Yes" was ma	rked for any	of the questions a	above, please ex	xplain below.
escription				

Reasonableness

#1: Noise Reduction Design Goal						
Number of Benefited Receivers 7		Number of Benefited Receivers that achieve at least an 8 dBA reduction				
the proposed noise abatement measure. first two building rows must achieve at Does the proposed noise abatement mea	NOTE: SCDOT Policy in least a 8 dBA reduction for sure meet the noise reduction.					
#2: Cost Effectiveness						
Estimated cost per square foot for noise abatement measure	35	Estimated construction cost for noise abatement measure 1,218,000				
Estimated cost per Benefited Receiver	174,000					
Based on the SCDOT policy of \$30,000 per Benefited Receiver, would the abatement measure be reasonable? NOTE: SCDOT Policy states that the preliminary noise analysis is based on \$35.00 per square foot and a more project- specific construction cost should be applied at a cost per square foot basis during the detailed noise abatement evaluation.						
If "Yes" is marked, continue to #3. If "No" is marked, then abatement is determined NOT to be reasonable.						
#3: Viewpoints of the property owners and residents of the benefitted receivers						
Number of Benefited Receivers (same a	as above)					
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure				
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure				
Number of Benefited Receivers that di respond to solicitation on noise abatem measure		Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure				
Based on the viewpoints of the property owners and residents of the Benefited Receivers, would the abatement measure be reasonable? NOTE: SCDOT Policy indicates that the noise abatement shall be constructed unless greater than 50% of the benefited receptors are opposed to noise abatement.						
Barrier wall is 1,740 feet in width by 20 fee	t in height.					
Based on the above results of the detailed a	nalysis, this abatement fear	ture is feasible but not reasonable.				

Project Name	SC Hwy 41 Corridor Impr	ovements			
Highway Traffi	ic Noise Abatement Measure	Alt 7a - Barrie	er 3		
<u>Feasibility</u>					
Number of Impa	acted Receivers 19	Nu	mber of Benefited	Receivers	20
Percentage of In noise abatement	npacted Receivers that would ac measure	chieve a 5 dBA rec	luction from the pr	roposed	100
NOTE:SCDOT I	Policy indicates that 75% of the a 5 dBA reduction for it to be accounted.	impacted receiver	o illust	Yes	□ No
Would a	any of the following issues limit	t the ability of the	abatement measure	e to achieve	the noise reduction goal?
	Topography		Yes	No	
	Safety		Yes	No	
	Drainage		Yes	No	
	Utilities		Yes	No	
	Maintenance		Yes	No	
	Access		Yes	No	
	Exposed Height of W	all \Box	Yes	No	
	If "Yes" was marked f	or any of the qu	estions above, p	lease expl	ain below.
ilad Dagamintian					
iled Description					
ned Description					

Reasonableness

#1: Noise Reduction Design Goal						
Number of Benefited Receivers 20	Number of Benefited Receivers that achieve at least an 8 dBA reduction					
Percentage of Benefited Receivers in the first two building the proposed noise abatement measure. NOTE: SCDOT P first two building rows must achieve at least a 8 dBA reduced the second	Policy indicates that 80% of the benefited receivers in the 100					
Does the proposed noise abatement measure meet the noise	reduction design goal? Yes No					
If "Yes" is marked, continue to #2. If "No" is	is marked, then abatement is determined NOT to be reasonable.					
#2: Cost Effectiveness						
Estimated cost per square foot for noise abatement measure	Estimated construction cost for noise abatement measure 591,192					
Estimated cost per Benefited Receiver 29,560						
Based on the SCDOT policy of \$30,000 per Benefited Receiver, would the abatement measure be reasonable? NOTE: SCDOT Policy states that the preliminary noise analysis is based on \$35.00 per square foot and a more project- specific construction cost should be applied at a cost per square foot basis during the detailed noise abatement evaluation. Yes No						
If "Yes" is marked, continue to #3. If "No" is marked, then abatement is determined NOT to be reasonable.						
#3: Viewpoints of the property owners and residen	nts of the benefitted receivers					
Number of Benefited Receivers (same as above)						
Number of Benefited Receivers in support of noise abatement measure	Percentage of Benefited Receivers in support of noise abatement measure					
Number of Benefited Receivers opposed to noise abatement measure	Percentage of Benefited Receivers opposed to noise abatement measure					
Number of Benefited Receivers that did not respond to solicitation on noise abatement measure	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure					
Based on the viewpoints of the property owners and residen abatement measure be reasonable? NOTE: SCDOT Policy constructed unless greater than 50% of the benefited receptor	indicates that the noise abatement shall be Yes No					
Barrier wall is 1,173 feet in width by 14.4 feet in height.						
Based on the above results of the detailed analysis, this abatem decision on the barrier will be made after conclusion of the pub	ent feature is feasible and reasonable. If Alternative 7a is selected, a final blic involvement portion of the project.					

		Date: June 2	29, 2020			
Project Name	SC Hwy 41 C	Corridor Improv	rements			
Highway Trafi	fic Noise Abaten	nent Measure	Alt 7a - Barrie	er 4		
Feasibility						
Number of Imp	acted Receivers	35	Nu	mber of Benefit	ted Receivers	32
Percentage of Innoise abatement		rs that would achie	eve a 5 dBA rec	luction from the	proposed	83
NOTE:SCDOT	Policy indicates	measure acoustical that 75% of the im n for it to be acous	pacted receiver		Yes	□ No
Would	any of the follow	ving issues limit th	e ability of the	abatement meas	sure to achieve	e the noise reduction goal
	Topog	graphy		Yes	⊠ No	
	Safety	7		Yes	⊠ No	
	Draina	age		Yes	⊠ No	
	Utiliti	es		Yes	✓ No	
	Maint	enance		Yes	≺ No	
	Acces	s		Yes	≺ No	
	Expos	sed Height of Wall		Yes	≺ No	
	If "Yes" v	was marked for	any of the qu	estions above	e, please exp	lain below.

Reasonableness

#1: Noise Reduction Design Goal						
Number of Benefited Receivers 28		Number of Benefited Receivers that achieve at least an 8 dBA reduction				
	NOTE: SCDOT Policy	that would achieve at least a 8 dBA reduction from andicates that 80% of the benefited receivers in the partition or it to be reasonable.				
Does the proposed noise abatement meas If "Yes" is marked, conti		ion design goal? Yes No No ked, then abatement is determined NOT to be reasonable.				
	J					
#2: Cost Effectiveness						
Estimated cost per square foot for noise abatement measure	35	Estimated construction cost for noise abatement measure 2,709,000				
Estimated cost per Benefited Receiver	84,656					
Based on the SCDOT policy of \$30,000 per Benefited Receiver, would the abatement measure be reasonable? NOTE: SCDOT Policy states that the preliminary noise analysis is based on \$35.00 per square foot and a more project- specific construction cost should be applied at a cost per square foot basis during the detailed noise abatement evaluation. Yes No						
If "Yes" is marked, conti	nue to #3. If "No" is mar	ked, then abatement is determined NOT to be reasonable.				
#3: Viewpoints of the property ow Number of Benefited Receivers (same a		the benefitted receivers				
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure				
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure				
Number of Benefited Receivers that dic respond to solicitation on noise abatem measure		Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure				
Based on the viewpoints of the property abatement measure be reasonable? NOT constructed unless greater than 50% of the property abatement measure be reasonable?	E: SCDOT Policy indica	ites that the noise abatement shall be \square Yes \square No				
Barrier wall is 3,870 feet in width by 20 fee	t in height.					
Based on the above results of the detailed ar	nalysis, this abatement fea	ature is feasible but not reasonable.				

Project Name SC Hwy	y 41 Corridor Improv	rements		
Iighway Traffic Noise A	Abatement Measure	Alt 7a - Barrier 5		
<u>'easibility</u>				
Number of Impacted Reco	eivers 8	Number of Be	enefited Receivers	s 10
Percentage of Impacted R noise abatement measure	eceivers that would achie	eve a 5 dBA reduction from	n the proposed	100
OTE:SCDOT Policy ind	ement measure acoustical icates that 75% of the imeduction for it to be acoustical	pacted receivers must	⊠ Yes	□ No
Would any of the	following issues limit th	e ability of the abatement	measure to achiev	ve the noise reduction goal?
	Topography	Yes	× No	
	Safety	Yes	× No	
	Drainage	☐ Yes	× No	
	Utilities	☐ Yes	× No	
	Maintenance	☐ Yes	\bowtie No	
	Access	Yes	× No	
	Exposed Height of Wall	Yes	× No	
If "	Yes" was marked for	any of the questions al	bove, please exp	plain below.

Reasonableness

#1: Noise Reduction Design Goal						
Number of Benefited Receivers 10		Number of Benefited Receivers that achieve at least an 8 dBA reduction	6			
the proposed noise abatement measure. first two building rows must achieve at I Does the proposed noise abatement measure.	NOTE: SCDOT Policy east a 8 dBA reduction ure meet the noise reduction		the			
#2: Cost Effectiveness						
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure				
Estimated cost per Benefited Receiver						
Based on the SCDOT policy of \$30,000 per Benefited Receiver, would the abatement measure be reasonable? NOTE: SCDOT Policy states that the preliminary noise analysis is based on \$35.00 per square foot and a more project- specific construction cost should be applied at a cost per square foot basis during the detailed noise abatement evaluation.						
If "Yes" is marked, continue to #3. If "No" is marked, then abatement is determined NOT to be reasonable.						
#3: Viewpoints of the property owners and residents of the benefitted receivers						
Number of Benefited Receivers (same a	s above)					
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measurement	ure			
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure	e			
Number of Benefited Receivers that dic respond to solicitation on noise abatement measure		Percentage of Benefited Receivers the did not respond to solicitation on neabatement measure				
Based on the viewpoints of the property owners and residents of the Benefited Receivers, would the abatement measure be reasonable? NOTE: SCDOT Policy indicates that the noise abatement shall be constructed unless greater than 50% of the benefited receptors are opposed to noise abatement.						
Barrier wall is 1,314 feet in width by 25 feet	in height.					
Based on the above results of the detailed an	alysis, this abatement for	eature is feasible but not reasonable.				

rcentage of Impacted Receivers that would are ise abatement measure the proposed noise abatement measure acoust of TE:SCDOT Policy indicates that 75% of the	Number of Benefited Receivers achieve a 5 dBA reduction from the proposed 91
rcentage of Impacted Receivers that would active abatement measure he proposed noise abatement measure acoust	Number of Benefited Receivers
ise abatement measure he proposed noise abatement measure acoust	achieve a 5 dBA reduction from the proposed 91
ieve at least a 5 dBA reduction for it to be ac	e impacted receivers must Yes No
Would any of the following issues limi	it the ability of the abatement measure to achieve the noise reduction go
Topography	Yes No
Safety	☐ Yes ⊠ No
Drainage	☐ Yes ⊠ No
Utilities	☐ Yes ⊠ No
Maintenance	☐ Yes ⊠ No
Access	☐ Yes ⊠ No
Exposed Height of W	Wall Yes No
If "Yes" was marked f	for any of the questions above, please explain below.

Reasonableness

#1: Noise Reduction Design Goal			
Number of Benefited Receivers 20		Number of Benefited Receivers that achieve at least an 8 dBA reduction	I
	NOTE: SCDOT Policy i	that would achieve at least a 8 dBA reduction frindicates that 80% of the benefited receivers in or it to be reasonable.	
Does the proposed noise abatement mean If "Yes" is marked, conti		tion design goal? X Yes No ked, then abatement is determined NOT to be re	easonable.
#2: Cost Effectiveness			
Estimated cost per square foot for noise abatement measure	35	Estimated construction cost for noise abatement measure	1,042,125
Estimated cost per Benefited Receiver	52,106		
NOTE: SCDOT Policy states that the prelim	inary noise analysis is based	would the abatement measure be reasonable? I on \$35.00 per square foot and a more projects during the detailed noise abatement evaluation.	□ Yes ⊠ No
If "Yes" is marked, conti	nue to #3. If "No" is mari	ked, then abatement is determined NOT to be re	easonable.
#3: Viewpoints of the property ov	vners and residents of	the benefitted receivers	
Number of Benefited Receivers (same a	is above)		
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measurement	sure
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measur	re
Number of Benefited Receivers that die respond to solicitation on noise abatem measure		Percentage of Benefited Receivers t did not respond to solicitation on r abatement measure	
Based on the viewpoints of the property abatement measure be reasonable? NOT constructed unless greater than 50% of the property abatement measure be reasonable?	TE: SCDOT Policy indica	ates that the noise abatement shall be	Yes
Barrier wall is 1,985 feet in width by 15 fee	t in height.		
Based on the above results of the detailed an	nalysis, this abatement fea	ature is feasible but not reasonable.	

	c Noise Abaten	lent measure					
<u>Feasibility</u>							
Number of Impa	cted Receivers	1		Number (of Benefited	d Receivers	2
Percentage of Imnoise abatement		rs that would ach	nieve a 5 dBA	reduction	from the p	roposed	100
Is the proposed no NOTE:SCDOT P achieve at least a	olicy indicates	that 75% of the in	mpacted receive		\boxtimes	Yes	□ No
Would a	ny of the follow	ving issues limit	the ability of t	ne abaten	nent measur	e to achieve	the noise reduction
	Тород	graphy		Yes	X	No	
	Safety	7	[Yes	\times	No	
	Draina	age	Ĺ	□ Yes		No	
	Utiliti	es		□ Yes	\times	No	
	Maint	enance		□ Yes	\times	No	
	Acces	S	[Yes	\times	No	
	Expos	ed Height of Wa	111	Yes	X	No	
	If "Yes"	was marked fo	or any of the	questio	ns above, j	please expl	ain below.

Reasonableness

#1: Noise Reduction Design Goal			
Number of Benefited Receivers 1		Number of Benefited Receivers that achieve at least an 8 dBA reduction	1
the proposed noise abatement measure. No first two building rows must achieve at least	OTE: SCDOT Policy in st a 8 dBA reduction for		
Does the proposed noise abatement measure If "Yes" is marked, continue		on design goal?	asonable.
,			
#2: Cost Effectiveness		_	
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure	
Estimated cost per Benefited Receiver			
Based on the SCDOT policy of \$30,000 per NOTE: SCDOT Policy states that the prelimina specific construction cost should be applied at a	ry noise analysis is based	on \$35.00 per square foot and a more project-	☐ Yes ☐ No
If "Yes" is marked, continue	e to #3. If "No" is mark	ed, then abatement is determined NOT to be red	asonable.
#3: Viewpoints of the property owner	ers and residents of	the benefitted receivers	
Number of Benefited Receivers (same as a	above)		
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measu	ıre
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure	
Number of Benefited Receivers that did n respond to solicitation on noise abatement measure		Percentage of Benefited Receivers the did not respond to solicitation on no abatement measure	
Based on the viewpoints of the property ow abatement measure be reasonable? NOTE: constructed unless greater than 50% of the	SCDOT Policy indicat	es that the noise abatement shall be	Yes
Barrier wall system is 260 feet in width by 14	feet in height.		
Based on the above results from the detailed ar	nalysis, this abatement f	eature is feasible but not reasonable.	

Highway Traffic N	oise Abatement Measure	Alt 7a - B	arrier 10a/b	/c		
<u>Feasibility</u>						
Number of Impacted	d Receivers 1		Number of I	Benefite	l Receiver	rs
Percentage of Impac noise abatement me	eted Receivers that would acasure	chieve a 5 dB	A reduction fr	om the p	roposed	
NOTE:SCDOT Police	e abatement measure acoust by indicates that 75% of the BA reduction for it to be ac	impacted rec	eivers must		Yes	□ No
Would any	of the following issues limi	t the ability o	f the abatemen	nt measui	e to achie	ve the noise reduction go
	Topography		Yes	X	No	
	Safety		× Yes		No	
	Drainage		Yes	\times	No	
	Utilities		Yes	\times	No	
	Maintenance		Yes	\times	No	
	Access		× Yes		No	
	Exposed Height of W	Vall	Yes	X	No	
	If "Yes" was marked f	for any of th	ne questions	above,	please ex	plain below.
the barrier to preserve	driveway access would obst	truct sightline	s and cause sa	fety issu	es, therefo	ore the barrier would not l

Reasonableness

#1: Noise Reduction Design Goal			
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction	
	NOTE: SCDOT Policy i		
Does the proposed noise abatement meas If "Yes" is marked, conting		ion design goal?	ble.
·	V		
#2: Cost Effectiveness			
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure	
Estimated cost per Benefited Receiver			
NOTE: SCDOT Policy states that the prelimi	nary noise analysis is based	vould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.	Yes □ No
If "Yes" is marked, contin	nue to #3. If "No" is mark	ked, then abatement is determined NOT to be reasonal	ble.
#3: Viewpoints of the property ow	mers and residents of	the benefitted receivers	
Number of Benefited Receivers (same as	s above)		
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure	
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure	
Number of Benefited Receivers that did respond to solicitation on noise abatement measure	I	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure	
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be Yes	□ No
Barrier wall system is 700 feet in width, heig	ght was not investigated d	lue to engineering feasibility issues.	
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.	

Highway Traffic	Noise Abatement Measure Alt 7a	a - Barrier 11a/b		
<u>Feasibility</u>				
Number of Impact	ed Receivers 1	Number of I	Benefited Receiver	S
Percentage of Imp	acted Receivers that would achieve a easure	5 dBA reduction fr	rom the proposed	
NOTE:SCDOT Pol	se abatement measure acoustically featicy indicates that 75% of the impacted dBA reduction for it to be acoustically	d receivers must	☐ Yes	□ No
Would any	of the following issues limit the abil	lity of the abatemen	nt measure to achie	ve the noise reduction go
	Topography	\square Yes	× No	
	Safety	× Yes	No No	
	Drainage	☐ Yes	⊠ No	
	Utilities	Yes	⊠ No	
	Maintenance	☐ Yes	⊠ No	
	Access	× Yes	□ No	
	Exposed Height of Wall	☐ Yes	\bowtie No	
		- C 41	above, please ex	plain below.
	If "Yes" was marked for any	of the questions	, T	

Reasonableness

#1: Noise Reduction Design Goal		
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction
the proposed noise abatement measure. first two building rows must achieve at least	NOTE: SCDOT Policy i east a 8 dBA reduction for	
Does the proposed noise abatement meas If "Yes" is marked, contin		ion design goal? Yes No
110 C 1 F F F 1	·	
#2: Cost Effectiveness		
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure
Estimated cost per Benefited Receiver		
NOTE: SCDOT Policy states that the prelimi	nary noise analysis is based	rould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.
If "Yes" is marked, contin	nue to #3. If "No" is mark	ted, then abatement is determined NOT to be reasonable.
#3: Viewpoints of the property ow	ners and residents of	the benefitted receivers
Number of Benefited Receivers (same as	s above)	
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure
Number of Benefited Receivers that did respond to solicitation on noise abateme measure	I	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be Yes No
Barrier wall system is 615 feet in width, heig	ght was not investigated d	ue to engineering feasibility issues.
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.

	oise Abatement Measure					
<u>Feasibility</u>						
Number of Impacted	l Receivers		Number of	Benefite	d Receive	rs 1
Percentage of Impac noise abatement mea	ted Receivers that would acasure	chieve a 5 dB	A reduction fr	rom the p	roposed	100
NOTE:SCDOT Polic	abatement measure acoust by indicates that 75% of the BA reduction for it to be ac	impacted rec	eivers must	X	Yes	□ No
Would any	of the following issues limi	it the ability o	f the abatemer	nt measu	e to achie	ve the noise reduction g
	Topography		Yes	X	No	
	Safety		☐ Yes	\times	No	
	Drainage		Yes	\times	No	
	Utilities		Yes	\times	No	
	Maintenance		☐ Yes	\times	No	
	Access		Yes	\times	No	
	Exposed Height of W	Vall	Yes	\times	No	
	If "Yes" was marked f	for any of th	e questions	above,	please ex	plain below.
escription						

Reasonableness

#1: Noise Reduction Design Goal			
Number of Benefited Receivers 1		Number of Benefited Receivers that achieve at least an 8 dBA reduction	0
the proposed noise abatement measure. NO first two building rows must achieve at least Does the proposed noise abatement measure	TE: SCDOT Policy in ta 8 dBA reduction for meet the noise reduction		he
If Tes is marked, continue	10 #2. 1j 110 is mark	eu, men dodiement is determined 1v01 to be ret	isonavie.
#2: Cost Effectiveness			
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure	
Estimated cost per Benefited Receiver			
Based on the SCDOT policy of \$30,000 per NOTE: SCDOT Policy states that the preliminary specific construction cost should be applied at a c	y noise analysis is based	on \$35.00 per square foot and a more project-	☐ Yes ☐ No
If "Yes" is marked, continue	to #3. If "No" is mark	ed, then abatement is determined NOT to be rec	asonable.
#3: Viewpoints of the property owner	rs and residents of	the benefitted receivers	
Number of Benefited Receivers (same as ab	ove)		
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measurement	are
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure	
Number of Benefited Receivers that did no respond to solicitation on noise abatement measure	t	Percentage of Benefited Receivers th did not respond to solicitation on no abatement measure	
Based on the viewpoints of the property own abatement measure be reasonable? NOTE: constructed unless greater than 50% of the be	SCDOT Policy indicate	tes that the noise abatement shall be	Yes
Barrier wall is 212 feet in width by 25 feet in he	eight.		
Based on the above results from the detailed and	alysis, this abatement f	eature is feasible but not reasonable.	

June 29, 2020 Date: SC Hwy 41 Corridor Improvements **Project Name** Alt 7a - Barrier 22a-d **Highway Traffic Noise Abatement Measure** Feasibility Number of Impacted Receivers Number of Benefited Receivers Percentage of Impacted Receivers that would achieve a 5 dBA reduction from the proposed noise abatement measure Is the proposed noise abatement measure acoustically feasible? ☐ Yes No NOTE:SCDOT Policy indicates that 75% of the impacted receivers must achieve at least a 5 dBA reduction for it to be acoustically feasible. Would any of the following issues limit the ability of the abatement measure to achieve the noise reduction goal? □ Yes Topography No × Yes No Safety Yes Drainage No Yes No Utilities Yes Maintenance \bowtie Yes No Access No □ Yes Exposed Height of Wall If "Yes" was marked for any of the questions above, please explain below. Breaks in the barrier to preserve driveway access would obstruct sightlines and cause safety issues, therefore the barrier would not be

Reasonableness

feasible.

#1: Noise Reduction Design Goal	
Number of Benefited Receivers	Number of Benefited Receivers that achieve at least an 8 dBA reduction
Percentage of Benefited Receivers in the first two building rotte proposed noise abatement measure. NOTE: SCDOT Pofirst two building rows must achieve at least a 8 dBA reduction	licy indicates that 80% of the benefited receivers in the
Does the proposed noise abatement measure meet the noise re If "Yes" is marked, continue to #2. If "No" is	eduction design goal? Yes No marked, then abatement is determined NOT to be reasonable.
#2: Cost Effectiveness	
Estimated cost per square foot for noise abatement measure	Estimated construction cost for noise abatement measure
Estimated cost per Benefited Receiver	
Based on the SCDOT policy of \$30,000 per Benefited Receiv NOTE: SCDOT Policy states that the preliminary noise analysis is specific construction cost should be applied at a cost per square foot	pased on \$35.00 per square foot and a more project- Yes Wo
If "Yes" is marked, continue to #3. If "No" is	marked, then abatement is determined NOT to be reasonable.
#3: Viewpoints of the property owners and resident	s of the benefitted receivers
Number of Benefited Receivers (same as above)	
Number of Benefited Receivers in support of noise abatement measure	Percentage of Benefited Receivers in support of noise abatement measure
Number of Benefited Receivers opposed to noise abatement measure	Percentage of Benefited Receivers opposed to noise abatement measure
Number of Benefited Receivers that did not respond to solicitation on noise abatement measure	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure
Based on the viewpoints of the property owners and residents abatement measure be reasonable? NOTE: SCDOT Policy in constructed unless greater than 50% of the benefited receptors.	ndicates that the noise abatement shall be Yes No
Barrier wall system is 424 feet in width, height was not investiga	ted due to engineering feasibility issues.
Based on the above results from the detailed analysis, this abaten	nent feature is not feasible.

Highway Traffic Noise Abatement Mo	easure Alt 7a	a - Barrier 23a-6	·	
<u>Ceasibility</u>				
Number of Impacted Receivers 6		Number of	Benefited Receiver	S
Percentage of Impacted Receivers that whoise abatement measure	ould achieve a	5 dBA reduction fi	rom the proposed	
the proposed noise abatement measure OTE:SCDOT Policy indicates that 75% chieve at least a 5 dBA reduction for it to	of the impacte	d receivers must	☐ Yes	□ No
Would any of the following issu	es limit the abi	lity of the abatemen	nt measure to achiev	ve the noise reduction
Topography		Yes	× No	
Safety		× Yes	□ No	
Drainage		☐ Yes	⊠ No	
Utilities		Yes	⊠ No	
Maintenance		Yes	× No	
Access		× Yes	□ No	
Exposed Heig	ht of Wall	Yes	⊠ No	
If "Yes" was ma	rked for any	of the questions	above, please ex	plain below.
barrier to preserve driveway access wou	ıld obstruct sigh	ntlines and cause sa	afety issues, therefor	re the barrier would no

Reasonableness

#1: Noise Reduction Design Goal								
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction						
the proposed noise abatement measure. first two building rows must achieve at least	NOTE: SCDOT Policy i east a 8 dBA reduction for							
Does the proposed noise abatement meas If "Yes" is marked, contin		ion design goal? Yes No						
·	V							
#2: Cost Effectiveness								
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure						
Estimated cost per Benefited Receiver								
NOTE: SCDOT Policy states that the prelimi	Based on the SCDOT policy of \$30,000 per Benefited Receiver, would the abatement measure be reasonable? NOTE: SCDOT Policy states that the preliminary noise analysis is based on \$35.00 per square foot and a more project- specific construction cost should be applied at a cost per square foot basis during the detailed noise abatement evaluation.							
If "Yes" is marked, continue to #3. If "No" is marked, then abatement is determined NOT to be reasonable.								
#3: Viewpoints of the property ow	ners and residents of	the benefitted receivers						
Number of Benefited Receivers (same as	s above)							
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure						
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure						
Number of Benefited Receivers that did respond to solicitation on noise abateme measure	I	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure						
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be Yes No						
Barrier wall system is 515 feet in width, heig	ght was not investigated d	ue to engineering feasibility issues.						
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.						

Highway Traf	fic Noise Abatement Measure	Alt 7a - Barrier 2	la-d		
<u>Feasibility</u>					
Number of Imp	pacted Receivers 3	Numbe	r of Benefited	Receivers	
Percentage of I noise abatemer	mpacted Receivers that would act measure	chieve a 5 dBA reducti	on from the pro	pposed	
NOTE:SCDOT	noise abatement measure acousti Policy indicates that 75% of the a 5 dBA reduction for it to be acc	impacted receivers mu	st	Yes	□ No
Would	any of the following issues limit	the ability of the abate	ement measure	to achieve th	ne noise reduction
	Topography	☐ Yes	X	No	
	Safety	× Yes		No	
	Drainage	Yes		No	
	Utilities	Yes		No	
	Maintenance	Yes	\times	No	
	Access	× Yes		No	
	Exposed Height of W	all Yes		No	
	If "Yes" was marked f	or any of the questi	ons above, pl	ease explai	in below.
e barrier to pres	erve driveway access would obst	ruct sightlines and cau	se safety issues	, therefore th	ne barrier would no

Reasonableness

#1: Noise Reduction Design Goal								
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction						
the proposed noise abatement measure. first two building rows must achieve at least the second seco	NOTE: SCDOT Policy i east a 8 dBA reduction for							
Does the proposed noise abatement meas If "Yes" is marked, conting		ion design goal?	e.					
· ·	V							
#2: Cost Effectiveness								
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure						
Estimated cost per Benefited Receiver								
NOTE: SCDOT Policy states that the prelimi	Based on the SCDOT policy of \$30,000 per Benefited Receiver, would the abatement measure be reasonable? NOTE: SCDOT Policy states that the preliminary noise analysis is based on \$35.00 per square foot and a more project- specific construction cost should be applied at a cost per square foot basis during the detailed noise abatement evaluation.							
If "Yes" is marked, continue to #3. If "No" is marked, then abatement is determined NOT to be reasonable.								
#3: Viewpoints of the property ow	mers and residents of	the benefitted receivers						
Number of Benefited Receivers (same as	s above)							
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure						
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure						
Number of Benefited Receivers that did respond to solicitation on noise abatement measure	I	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure						
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be Yes	□ No					
Barrier wall system is 740 feet in width, heig	ght was not investigated d	lue to engineering feasibility issues.						
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.						

Project Name SC						
Highway Traffic No	ise Abatement Measure	Alt 7a - B	arrier 25	a-d		
<u>Feasibility</u>						
Number of Impacted	Receivers 2		Number	of Benefite	d Receive	rs
Percentage of Impact noise abatement mea	ed Receivers that would ac sure	chieve a 5 dB	A reductio	n from the p	oroposed	
NOTE:SCDOT Policy	abatement measure acoust v indicates that 75% of the BA reduction for it to be ac	impacted reco	eivers mus	t \Box	Yes	□ No
Would any o	f the following issues limi	t the ability of	the abater	nent measu	re to achie	eve the noise reduction g
	Topography		☐ Yes	X	No	
	Safety		× Yes		No	
	Drainage		Yes	\times	No	
	Utilities		Yes Yes	\times	No	
	Maintenance		☐ Yes	\times	No	
	Access		× Yes		No	
	Exposed Height of W	Vall	Yes	\times	No	
	If "Yes" was marked f	for any of th	e questio	ns above,	please ex	xplain below.
he barrier to preserve d	riveway access would obst	truct sightline:	and cause	safety issu	es, therefo	ore the barrier would not

Reasonableness

#1: Noise Reduction Design Goal						
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction				
	NOTE: SCDOT Policy in					
Does the proposed noise abatement meas If "Yes" is marked, contin		ion design goal? Yes No				
·	J					
#2: Cost Effectiveness						
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure				
Estimated cost per Benefited Receiver						
NOTE: SCDOT Policy states that the prelim	inary noise analysis is based	rould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.				
If "Yes" is marked, continue to #3. If "No" is marked, then abatement is determined NOT to be reasonable.						
#3: Viewpoints of the property ow	vners and residents of	the benefitted receivers				
Number of Benefited Receivers (same a	s above)					
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure				
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure				
Number of Benefited Receivers that did respond to solicitation on noise abatement measure		Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure				
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be				
Barrier wall system is 397 feet in width, heig	ght was not investigated d	ue to engineering feasibility issues.				
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.				

Project Name SC 11wy 41 CC	orridor Improvem			
Highway Traffic Noise Abatemo	ent Measure Alt 7	7a - Barrier 26a-d		
<u>Feasibility</u>				
Number of Impacted Receivers	3	Number of 1	Benefited Receiver	'S
Percentage of Impacted Receivers noise abatement measure	s that would achieve	a 5 dBA reduction fr	om the proposed	
Is the proposed noise abatement m NOTE:SCDOT Policy indicates th achieve at least a 5 dBA reduction	at 75% of the impact	ed receivers must	☐ Yes	□ No
Would any of the following	ng issues limit the ab	ility of the abatemer	nt measure to achie	ve the noise reduction goal?
Topogr	aphy	☐ Yes	\bowtie No	
Safety		× Yes	□ No	
Drainag	ge	Yes	⊠ No	
Utilities	S	☐ Yes	⊠ No	
Mainter	nance	Yes	⊠ No	
Access		× Yes	□ No	
Expose	d Height of Wall	Yes	⊠ No	
If "Yes" w	as marked for any	y of the questions	above, please ex	plain below.
in the barrier to preserve driveway acce	ess would obstruct sig	ghtlines and cause sa	fety issues, therefo	ore the barrier would not be

Reasonableness

#1: Noise Reduction Design Goal								
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction						
the proposed noise abatement measure. first two building rows must achieve at least the second seco	NOTE: SCDOT Policy i east a 8 dBA reduction for							
Does the proposed noise abatement meas If "Yes" is marked, conting		ion design goal?	ole.					
112 C 4 E C 4:	·							
#2: Cost Effectiveness								
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure						
Estimated cost per Benefited Receiver								
NOTE: SCDOT Policy states that the prelimi	Based on the SCDOT policy of \$30,000 per Benefited Receiver, would the abatement measure be reasonable? NOTE: SCDOT Policy states that the preliminary noise analysis is based on \$35.00 per square foot and a more project- specific construction cost should be applied at a cost per square foot basis during the detailed noise abatement evaluation.							
If "Yes" is marked, continue to #3. If "No" is marked, then abatement is determined NOT to be reasonable.								
#3: Viewpoints of the property ow	mers and residents of	the benefitted receivers						
Number of Benefited Receivers (same as	s above)							
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure						
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure						
Number of Benefited Receivers that did respond to solicitation on noise abatement measure	I	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure						
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	ites that the noise abatement shall be Yes	□ No					
Barrier wall system is 500 feet in width, heig	ght was not investigated d	lue to engineering feasibility issues.						
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.						

Project Name SC 11Wy 41 Con				
Highway Traffic Noise Abatemen	nt Measure Alt 7	a - Barrier 28a-d	[
<u>Feasibility</u>				
Number of Impacted Receivers 4		Number of 1	Benefited Receiver	rs
Percentage of Impacted Receivers noise abatement measure	that would achieve a	a 5 dBA reduction fr	rom the proposed	
Is the proposed noise abatement me NOTE:SCDOT Policy indicates tha achieve at least a 5 dBA reduction f	at 75% of the impact	ed receivers must	☐ Yes	□ No
Would any of the followin	g issues limit the ab	ility of the abatemer	nt measure to achie	ve the noise reduction goal?
Topogra	phy	☐ Yes	× No	
Safety		× Yes	□ No	
Drainage	e	Yes	⊠ No	
Utilities		Yes	× No	
Mainten	ance	Yes	⊠ No	
Access		× Yes	□ No	
Exposed	Height of Wall	Yes	⊠ No	
If "Yes" wa	s marked for any	of the questions	above, please ex	plain below.
in the barrier to preserve driveway acces	ss would obstruct sig	htlines and cause sa	fety issues, therefo	ore the barrier would not be

Reasonableness

#1: Noise Reduction Design Goal						
Number of Benefited Receivers		Number of Benefited Receivers that achieve at least an 8 dBA reduction				
	NOTE: SCDOT Policy i					
Does the proposed noise abatement meas If "Yes" is marked, conting		ion design goal?				
·	J					
#2: Cost Effectiveness						
Estimated cost per square foot for noise abatement measure		Estimated construction cost for noise abatement measure				
Estimated cost per Benefited Receiver						
NOTE: SCDOT Policy states that the prelimi	nary noise analysis is based	vould the abatement measure be reasonable? on \$35.00 per square foot and a more project-during the detailed noise abatement evaluation.	; No			
If "Yes" is marked, continue to #3. If "No" is marked, then abatement is determined NOT to be reasonable.						
#3: Viewpoints of the property ow	mers and residents of	the benefitted receivers				
Number of Benefited Receivers (same as	s above)					
Number of Benefited Receivers in support of noise abatement measure		Percentage of Benefited Receivers in support of noise abatement measure				
Number of Benefited Receivers opposed to noise abatement measure		Percentage of Benefited Receivers opposed to noise abatement measure				
Number of Benefited Receivers that did respond to solicitation on noise abatement measure	I	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure				
Based on the viewpoints of the property of abatement measure be reasonable? NOT constructed unless greater than 50% of the	E: SCDOT Policy indica	tes that the noise abatement shall be Yes	□ No			
Barrier wall system is 710 feet in width, heig	ght was not investigated d	lue to engineering feasibility issues.				
Based on the above results from the detailed	analysis, this abatement	feature is not feasible.				

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