

# **PROJECT DEVELOPMENT & ENVIRONMENT NOISE STUDY REPORT**

**Central Polk Parkway East from US 17/92 to  
Poinciana Connector (SR 538)**

**Polk County, Florida**

Financial Project ID Number: 451419-1



**Prepared For:  
FLORIDA'S TURNPIKE ENTERPRISE**

**October 2025**

## EXECUTIVE SUMMARY

Florida's Turnpike Enterprise (FTE) is conducting a Project Development and Environment (PD&E) study to evaluate an approximately eight-mile new tolled, multi-lane, limited access highway referred to as the Central Polk Parkway (CPP) East. The PD&E study area extends from US 17/92, south of the Power Line Road extension, to the future Poinciana Connector (State Road (SR) 538), with the CSX railroad delineating the western study area boundary. Most of the study area is located in northeast Polk County, with a small section extending into Osceola County. Refer to **Figure 1-1** for the Project Location Map.

Within the project limits, noise levels were predicted at 354 noise receptor locations, representing 481 residences and 16 non-residential special land use (SLU) sites. Of these sites, noise levels at 159 residences and eight SLU sites are predicted to approach or exceed the Noise Abatement Criteria (NAC) in the design year (2050) for the Build condition. An additional 27 residences and one SLU receptor are predicted to have substantial noise increases [ $\geq 15$  dB(A)] when compared to existing conditions. Nine residences are expected to have both a substantial noise increase and noise levels that approach or exceed the NAC.

The project is expected to impact a total of 204 noise sensitive sites (195 residences and nine SLU sites [with the Equivalent Residential (ER) value of 15.64]) when contributing railroad noise is included. The results of the noise abatement evaluation conclude that four noise barrier systems are a potentially feasible and reasonable method to abate traffic-related noise impacts for five common noise environments (CNEs). These four noise barrier systems will provide at least 5 dB(A) noise reduction benefit to 93 of the 204 impacted residential receptors (including substantial noise impacts) and one impacted SLU receptor, as well as providing a 5 dB(A) benefit to 81 non-impacted residences.

### Statement of Likelihood

FTE is committed to the construction of feasible and reasonable noise abatement measures. Four potentially feasible and reasonable noise barrier systems have been identified for this project (see **Table 4-2** for more detail on the noise barriers) contingent upon the following conditions:

- Final recommendations on the construction of abatement measures are determined during the project's final design and through the public involvement process;
- Detailed noise analyses during the final design process support the need, feasibility, and reasonableness of providing abatement;
- Cost analysis indicates that the cost of the noise barrier(s) will not exceed the cost reasonable criterion;
- Community input supporting types, heights, and locations of the noise barrier(s) is provided to FTE; and
- Safety and engineering aspects have been reviewed, and any conflicts or issues resolved.

During the design phase, a land use review will be performed to identify all noise sensitive sites that may have received a building permit subsequent to the noise study but prior to the project's Date of Public Knowledge (DPK). The date that the State Environmental Impact Report (SEIR) is approved by FTE will be the DPK. If the review identifies noise sensitive sites that have been permitted prior to the DPK, then

the DPK. If the review identifies noise sensitive sites that have been permitted prior to the DPK, then those sensitive sites will be evaluated during the design phase for traffic noise impacts and abatement considerations.

DRAFT

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## 1.0 INTRODUCTION

Florida's Turnpike Enterprise (FTE) is conducting a Project Development and Environment (PD&E) study to evaluate an approximately eight-mile new tolled, multi-lane, limited access highway referred to as the Central Polk Parkway (CPP) East. The PD&E study area extends from US 17/92, south of the Power Line Road extension, to the future Poinciana Connector (State Road (SR) 538), with the CSX railroad delineating the western study area boundary. Most of the study area is located in northeast Polk County, with a small section extending into Osceola County, as shown in **Figure 1-1**.



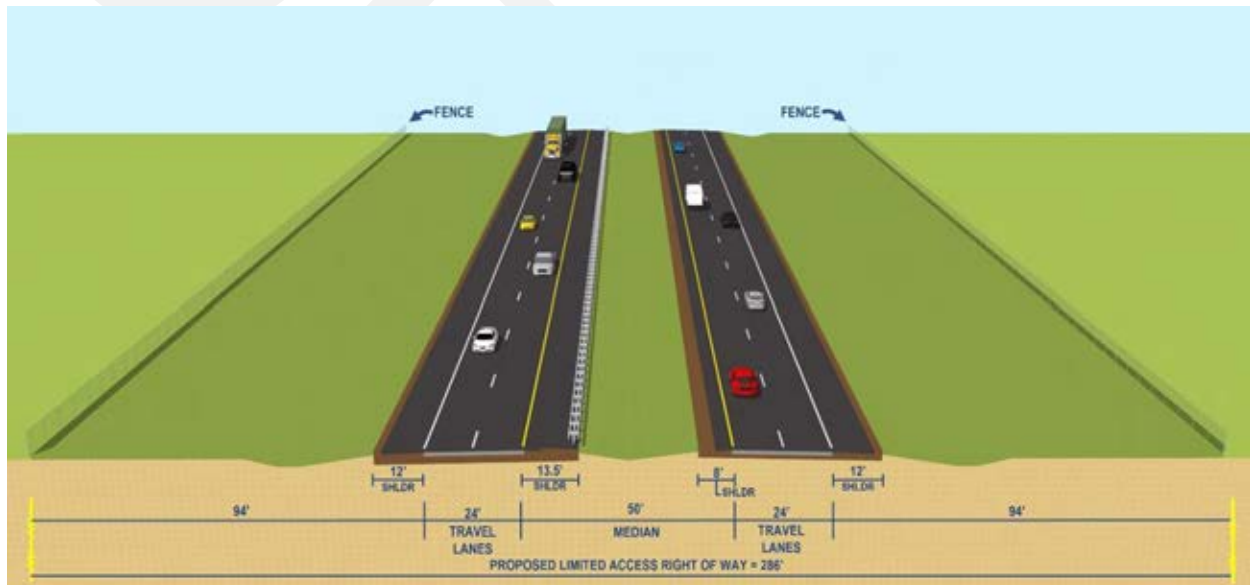
**Figure 1-1: Project Location Map**

### 1.1. Description of the Preferred Alternative

The project begins as a co-location with US 17/92 south of the intersection with the Power Line Road extension until approximately 0.7 miles south of Ernie Caldwell Boulevard, where the CPP East begins on new alignment as a four-lane limited access facility. At this point, the new alignment curves to the west and follows the CSX railroad line for approximately 1.4 miles before curving back towards US 17/92. The alignment crosses over US 17/92 near the Providence neighborhood and parallels US 17/92 on the east side until after Ronald Reagan Parkway. Approximately 2,000 feet north of Ronald Reagan Parkway, the

CPP East curves to the north, crossing over US 17/92, and then the northbound and southbound lanes diverge. Northbound CPP East crosses over the future Poinciana Connector to tie into the outside lanes in the vicinity of the CR 532 overpass, and CPP East southbound is created with a ramp that forms just south of CR 532 and crosses over US 17/92.

The CPP East is comprised of two 12-foot-wide travel lanes in each direction separated by a 50-foot-wide median, including the inside shoulders. In the northbound direction, there is an eight-foot-wide inside shoulder and a 12-foot-wide outside shoulder. In the southbound direction, there is a 13.5-foot-wide inside shoulder with guardrail and a 12-foot-wide outside shoulder. The proposed limited access right of way (ROW) is 286 feet, including 94 feet of border width on either side. A 12-foot-wide shared-use path is being evaluated between the US 17/92 and Power Line Road intersection and Ernie Caldwell Boulevard. An additional 50 feet of ROW is required for the shared-use path footprint. **Figure 1-2** illustrates the preferred typical section for the CPP East new alignment.



**Figure 1-2: Preferred Typical Section**

## 2.0 METHODOLOGY

The traffic noise study was performed in accordance with *Code of Federal Regulations, Title 23, Part 772 (23 CFR 772) Procedures for Abatement of Highway Traffic Noise and Construction Noise*<sup>1</sup> using methodology established by the Florida Department of Transportation (FDOT) in the *Project Development and Environment Manual, Part 2, Chapter 18*<sup>2</sup>, FDOT's *Traffic Noise Modeling and Analysis Practitioners' Handbook*<sup>3</sup>, and FDOT's *Methodology to Evaluate Highway Traffic Noise at Special Land Uses*<sup>4</sup>. Predicted noise levels were produced using the Federal Highway Administration (FHWA) Traffic Noise Model (TNM), version 2.5. Where the CSX railroad line is located near the project corridor, the Federal Railroad Administration's (FRA) CREATE railroad noise model was used to determine contributing noise levels following the FRA's *Guidance on Assessing Noise and Vibration Impacts*<sup>5</sup> and the Federal Transit Administration's (FTA) *Transit Noise and Vibration Impact Assessment*<sup>6</sup>.

## 2.1. Noise Metrics

Noise levels developed for this analysis are expressed in decibels (dB) using an "A"-scale [dB(A)] weighting. This scale most closely approximates the response characteristics of the human ear. All noise levels are reported as hourly equivalent noise levels [Leq(h)]. The Leq(h) is defined as the equivalent steady-state sound level that, in a given hourly period, contains the same acoustic energy as the time-varying sound level for the same hourly period<sup>3</sup>. Use of the dB(A) and Leq(h) metrics to evaluate traffic noise is consistent with 23 CFR 772<sup>1</sup>.

## 2.2. Traffic Data

Traffic noise is heavily dependent on both traffic speed and traffic volume, with the amount of noise generated by traffic increasing as the vehicle speed and number of vehicles increase. The traffic conditions that result in the highest noise levels for roadways are the hourly traffic volumes representing Level of Service (LOS) C traffic conditions because they represent maximized traffic volumes that continue to travel at free-flow speed.

Traffic volumes and vehicle mix (e.g., cars, medium trucks, heavy trucks, motorcycles, and buses) were predicted for the design year (2050) under the Build and No-Build conditions. For all roadway segments, LOS C hourly traffic volumes were compared to predicted design year demand hourly volumes, and the lower of the two was used in the model. For ramps, hourly traffic demand volumes were used. Traffic volumes and speeds used in the analysis are provided in **Appendix A**.

## 2.3. Noise Abatement Criteria and Considerations

Noise sensitive sites are any property where frequent exterior and/or interior human use occurs and where a lowered noise level would be a benefit. FHWA has established noise levels at which noise abatement must be considered for various types of noise sensitive sites. These levels, which the FTE uses for the purpose of evaluating traffic noise, are referred to as the Noise Abatement Criteria (NAC). As shown in **Table 2-1**, the NAC vary by activity category. Noise abatement measures are considered when the Build condition's predicted traffic noise levels approach or exceed the NAC for its respective category. The FDOT defines "approach" as within one dB(A) of the applicable FHWA criterion. For comparison purposes, typical noise levels for common indoor and outdoor activities are provided in **Figure 2-1**.

Noise abatement measures must also be considered when a substantial increase in traffic noise will occur as a direct result of the transportation project. FDOT defines a substantial increase as 15 or more dB(A) above existing conditions. A substantial increase typically occurs in areas where traffic noise is a minor component of the existing noise environment but would become a major component after the project is constructed. This typically occurs with a new alignment project like the CPP East.



**Table 2-1: FHWA & FDOT Noise Abatement Criteria**

| <b>NOISE ABATEMENT CRITERIA (NAC)</b><br><b>[Hourly A-Weighted Sound Level-decibels (dB(A))]</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |      |                     |                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Activity Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Activity Leq(h) <sup>1</sup> |      | Evaluation Location | Description of Activity Category                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FHWA                         | FDOT |                     |                                                                                                                                                                                                                                                                                                                                                                                                   |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 57                           | 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 <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 67                           | 66   | Exterior            | Residential                                                                                                                                                                                                                                                                                                                                                                                       |
| C <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 67                           | 66   | Exterior            | Active sports areas, amphitheaters, auditoriums, campgrounds, cemeteries, daycare 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, daycare 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 <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 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.                                                                                                                                                                                                                                                                                                                                                         |
| <p>(Based on Table 1 of 23 CFR Part 772)<sup>1</sup></p> <p><sup>1</sup> The Leq(h) Activity Criteria values are for impact determination only and are not design standards for noise abatement measures.</p> <p><sup>2</sup> Includes undeveloped lands permitted for this activity category.</p> <p><i>Note:</i> FDOT defines that a substantial noise increase occurs when the existing noise level is predicted to be exceeded by 15 decibels or more as a result of the transportation improvement project. When this occurs, the requirement for abatement consideration will be followed.</p> |                              |      |                     |                                                                                                                                                                                                                                                                                                                                                                                                   |

| Common Outdoor Activities                                                                         | Noise Level dB(A) | Common Indoor Activities                       |
|---------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------|
| Jet Fly-Over 1000 ft.                                                                             | ---110---         | Rock Band                                      |
| Gas Lawn Mower at 3 ft.                                                                           | ---100---         |                                                |
| Diesel Truck at 50 ft., at 50 mph                                                                 | ---90---          | Food Blender at 3 ft.                          |
| Noise Urban Area (Daytime)                                                                        | ---80---          | Garbage Disposal at 3 ft.                      |
| Gas Lawn Mower at 100 ft.                                                                         | ---70---          | Vacuum Cleaner at 10 ft.                       |
| Commercial Area                                                                                   | ---60---          | Normal Speech at 3 ft.                         |
| Heavy Traffic at 300 ft.                                                                          |                   | Large Business Office                          |
| Quiet Urban Daytime                                                                               | ---50---          | Dishwasher Next Room                           |
| Quiet Urban Nighttime                                                                             | ---40---          | Theater, Large Conference Room<br>(Background) |
| Quiet Suburban Nighttime                                                                          | ---30---          | Library                                        |
| Quiet Rural Nighttime                                                                             | ---20---          | Bedroom at Night, Concert Hall<br>(Background) |
|                                                                                                   | ---10---          |                                                |
| Lowest Threshold of Human Hearing                                                                 | ---0---           | Lowest Threshold of Human Hearing              |
| Source: California Dept. of Transportation; Technical Noise Supplement; September 2013, Page 2-20 |                   |                                                |

**Figure 2-1: Typical Noise Levels**

## 3.0 TRAFFIC NOISE ANALYSIS AND ABATEMENT ASSESSMENT

### 3.1. Model Verification

To verify the accuracy of the TNM 2.5 noise model, field measurements were taken within the project limits following procedures documented in FHWA's *Noise Measurement Field Guide* <sup>7</sup>. Noise monitoring was performed on August 26, 2025, using an Extech Instruments Model 407780 Type 2 Integrating Sound Level Meter (noise monitor). All monitoring events were 10 minutes in duration, which is consistent with the methodology documented in FDOT's *Traffic Noise Modeling and Analysis Practitioners' Handbook* <sup>3</sup>. The noise monitor was calibrated using an Extech Instruments Model 407766 calibrator before and after each event. Typical vehicle speeds were established by sampling with a Bushnell Speedster handheld radar gun. Vehicles generally traveled within a few miles per hour (mph) of

the 45-mph posted speed limit on US 17/92. Traffic volumes by vehicle classification were recorded for each monitoring event and then extrapolated to one-hour equivalent volumes for input within the TNM.

One location was used to validate the ability of the TNM to accurately predict traffic noise for this project. The location of the validation site is shown as receptor point VS-1 on sheet 2 in the project aerials, located in **Appendix E**. Receptor point VS-1 is located approximately 50 feet from the northbound turn lane, approximately 185 feet from Tiny Flowers Road. Refer to **Appendix G** for the field data sheet.

Measurements were taken for three validation events. The results of the validation events are summarized in **Table 3-1**. As shown in this table, the variance between the measured and predicted noise levels was 3.0 dB(A) or less for all validation events. Therefore, the noise model is predicting traffic-related noise for this project within the level of accuracy specified in the Practitioners' Handbook <sup>3</sup>.

Additional field measurements were taken to determine the existing noise levels along the proposed CPP East new alignment in areas where traffic is not the predominant noise source. Because there is no existing traffic, ambient field measurements cannot be used to validate the noise model. Three 10-minute field measurements were taken on August 26, 2025, at a site located in the Preservation Pointe subdivision closest to the proposed new alignment. The location of the field measurement site is identified as "Ambient" on sheet 8 in the project aerials, located in **Appendix E**. **Appendix G** contains the field data sheet.

The results of the field measurements are also shown in **Table 3-1**. The average of the three field measurements is 45.8 dB(A). This average was applied to the existing condition for 50 noise sensitive sites that are located along the proposed CPP East new alignment, where the TNM predicted noise levels that are below 45.8 dB(A) for the existing noise condition, and in some instances, also the No-Build noise condition.

**Table 3-1: TNM Validation Results Summary**

| Location             | Validation Event | Field Measured (dB(A)) | TNM Predicted (dB(A)) | Variance (dB(A)) |
|----------------------|------------------|------------------------|-----------------------|------------------|
| VS-1 <sup>1</sup>    | V1-1             | 65.2                   | 65.2                  | 0.0              |
|                      | V1-2             | 64.6                   | 65.7                  | 1.1              |
|                      | V1-3             | 65.4                   | 65.6                  | 0.2              |
| Ambient <sup>1</sup> | A-1              | 47.3                   | n/a                   | n/a              |
|                      | A-2              | 44.9                   | n/a                   | n/a              |
|                      | A-3              | 45.2                   | n/a                   | n/a              |

<sup>1</sup> Measurements Taken 8/26/2025.

### 3.2. Noise Sensitive Sites and Impact Analysis

Within the project limits, residential and non-residential special land use (SLU) sites were evaluated. Receptor points representing the noise sensitive sites are located in accordance with the FDOT PD&E Manual<sup>2</sup> as follows:

- Residential receptor points are located at an area of frequent outdoor use (i.e., patio or lanai) or the corner of the residential building closest to the major traffic noise source.
- Where residences are clustered together, single receptor points are analyzed as representative of a group of sites with similar characteristics.
- Ground floor receptor points are assumed to be five feet above the ground elevation, and all receptors are assumed to be at ground level unless otherwise noted.
- Higher floor receptors are assumed to increase in elevation in ten-foot increments above the ground floor receptor.
- SLU receptor points are located in areas of the SLU site with frequent outdoor human use, following the methodology in FDOT's *Methodology to Evaluate Highway Traffic Noise at Special Land Uses*<sup>4</sup>.
- Predicted traffic noise levels, NAC classification, and impact criteria for all noise sensitive sites in this project are documented in **Appendix B-1** and **Appendix B-2**, and the locations of the receptor points are depicted on the project aerials found in **Appendix E**. The alphanumeric identification for each receptor point associated with a noise sensitive receptor is formulated as follows:
  - o All receptor point names begin with a single letter code indicating the receptor "type" that the point represents.
    - "R" for Residences
    - "N" for SLU Sites
  - o Following the "type" code, receptors are assigned a common noise environment (CNE) identifier, which labels receptors according to the CNE within which they are located.
    - The first two letters (i.e., NB, SB) describe on which side of the roadway the CNE is located (e.g., "NB" indicates the receptor is located in a CNE on the northbound side of the travel lanes).
    - The number following the first two letters is a numeric sequencing number (e.g., CNE NB02 is the 2<sup>nd</sup> CNE on the northbound side of the roadway).
  - o The number following the CNE identifier is the receptor number and is separated from the first string of characters with a dash (e.g., RNB02-02 is the 2<sup>nd</sup> receptor of Residential "type", in the 2<sup>nd</sup> CNE on the northbound side of the roadway).
- The project aerials in **Appendix E** show the locations of all impacted and/or benefited receptors.

For the proposed design, 354 receptor points were utilized to represent 481 residences and 16 SLU sites. Noise levels at 159 residences are predicted to approach or exceed the Noise Abatement Criteria (NAC) in the design year (2050) for the Build condition. An additional 27 residences are predicted to be impacted by substantial noise increases [ $\geq 15$  dB(A)] when compared to existing conditions. Nine residences are expected to have both a substantial noise increase and noise levels that approach or exceed the NAC. The impacted residences are located primarily in the first and second building rows

within the neighborhoods adjacent to the CPP East co-location with US 17/92 or the CPP East new alignment.

In addition to residences, Title 23 Code of Federal Regulations Part 772 <sup>1</sup> specifies other Activity Categories addressing SLU noise sensitive sites. Within the project limits, SLU noise sensitive sites include outdoor use areas at a variety of locations, including parks, playgrounds, and churches. Noise levels are predicted to approach or exceed the 66 dB(A) NAC for the Equivalent Residential (ER) value of 12.53 at eight SLU sites in the design year (2050) for the Build condition. One additional SLU receptor is predicted to be impacted by a substantial noise increase [  $\geq 15$  dB(A)] when compared to existing conditions (ER value of 3.11). Predicted noise levels for the design year (2050) Build condition are included in **Appendix B-1** for residential receptors and **Appendix B-2** for SLU receptors. The receptors are shown on the project aerials located in **Appendix E**.

### 3.3. Noise Abatement Analysis

Where noise impacts are identified, receptors are grouped into CNEs to evaluate the feasibility and cost reasonableness of providing noise barriers to reduce traffic noise. Noise barriers reduce traffic noise by blocking the sound path between a highway and noise sensitive receptors. To effectively reduce traffic noise, a noise barrier must be relatively long, continuous (with no intermittent openings), and of sufficient height. For a noise barrier to be considered feasible and cost reasonable (i.e., qualify for construction), the following conditions must be met.

To be considered feasible, it must:

- Demonstrate that it will benefit at least two impacted receptors by providing a reduction in traffic-related noise of at least 5 dB(A).
- Take into consideration a number of additional feasibility factors, including design and construction, safety, access, ROW, maintenance, drainage, and utility factors.

To be considered reasonable, it must:

- Take into consideration the viewpoints of the benefited property owners and residents.
- The cost of the noise barrier must not exceed \$64,000 per benefited receptor. A benefited receptor is defined as a receptor that would experience at least a 5 dB(A) reduction in noise levels as a result of providing a noise barrier. The current unit cost used to evaluate cost reasonableness is \$40 per square foot for all noise barriers. This cost covers barrier materials and labor.
- Satisfy the FDOT's Noise Reduction Design Goal (NRDG) of 7 dB(A). Therefore, a noise barrier must provide a noise reduction of at least 7 dB(A) for at least one benefited receptor.

Within the project limits, noise barrier locations were evaluated for the project as follows:

- Non-shoulder noise barriers located outside the clear recovery zone but within the ROW are initially considered at heights ranging from 8 feet to 22 feet in 2-foot increments.
- If a non-shoulder noise barrier cannot provide feasible and reasonable abatement to an impacted receptor, then a shoulder noise barrier is evaluated. When on a structure (e.g., bridge, retaining wall), a shoulder noise barrier is limited to a maximum height of 8 feet. If on

embankment or ground-mounted, a shoulder noise barrier is limited to a maximum height of 14 feet.

Using the evaluation process, noise barriers for each CNE are evaluated to determine an optimal barrier design. The noise barriers were evaluated to determine the maximum number of impacted receptors that could potentially be provided with at least a 5 dB(A) reduction in traffic-related noise. Specific conditions, such as overhead utilities, often constrain these noise barriers. As a result of the site-specific conditions, noise barriers may not provide a 5 dB(A) reduction in traffic-related noise to all impacted receptors.

At some locations, noise barriers will benefit receptors to a predicted noise level that does not approach the NAC. Since abatement consideration at these receptors is not required, noise barrier lengths or heights are not increased to benefit these sites. However, if benefited because of the proximity to an impacted receptor, these sites are included when determining the cost reasonableness of the noise barrier based on the cost per benefited receptor. This methodology is consistent with FHWA policy and guidance.

### 3.4. Special Land Use (SLU) Site Analysis

The methodology used to evaluate noise barrier systems for non-residential SLU sites differs from that used for residential locations. The standard procedure for determining the feasibility and reasonableness of a noise barrier for a special land use (SLU) site is documented in FDOT's *Methodology to Evaluate Highway Traffic Noise at Special Land Uses*<sup>4</sup>. Figure 3-1 illustrates the multi-step methodology process, which is summarized below.

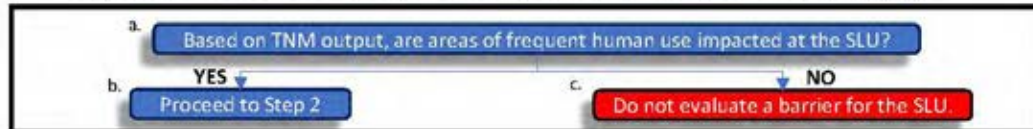
- If an impacted SLU receptor is not adjacent to impacted residences or other impacted SLUs such that a single noise barrier would not be a practical form of abatement for all impacted properties, it is considered isolated. It must go through a preliminary screening analysis to determine if it has enough person-hour usage to equate to at least two residences to be found feasible for noise abatement. To meet the feasibility requirement, the isolated SLU must have at least 44,326 person-hours of use per year in the benefited area for a noise barrier to be found as a feasible form of noise abatement.
- A noise barrier is evaluated if the preliminary screening results indicate that a full analysis is warranted or if the impacted SLU is adjacent to other impacted SLUs or residences.
- Once it is determined that impacted SLUs benefit from the analyzed noise barrier, the FDOT SLU Worksheet is utilized to assess whether a noise barrier is a reasonable form of abatement. The SLU Worksheet includes all residences and SLUs that would receive a benefit from the noise barrier. This methodology allows the combined evaluation of all impacted land use activity categories that would potentially benefit from a single noise barrier system.



## Step

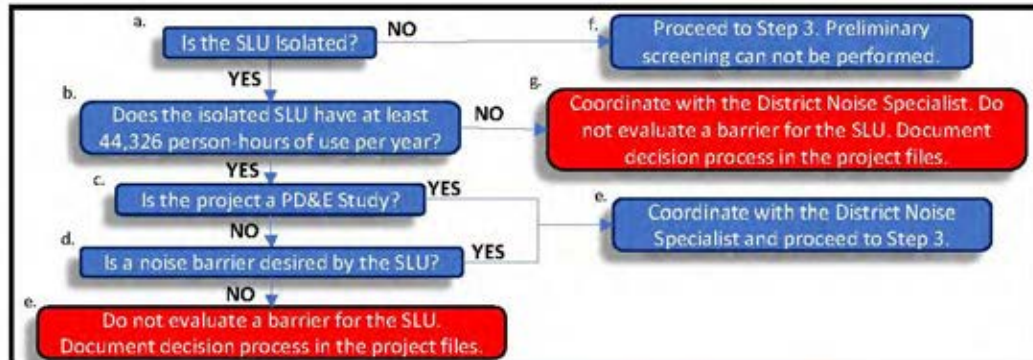
1

Identify  
Impacts



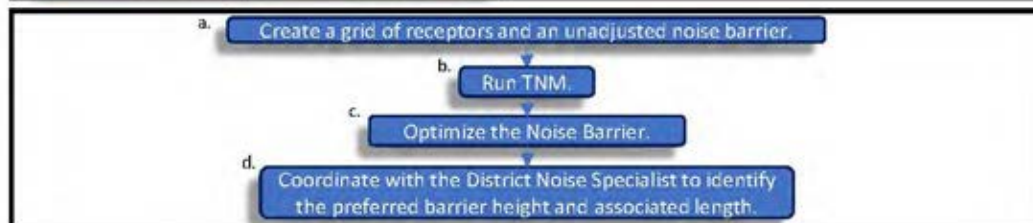
2

Preliminary  
Screening



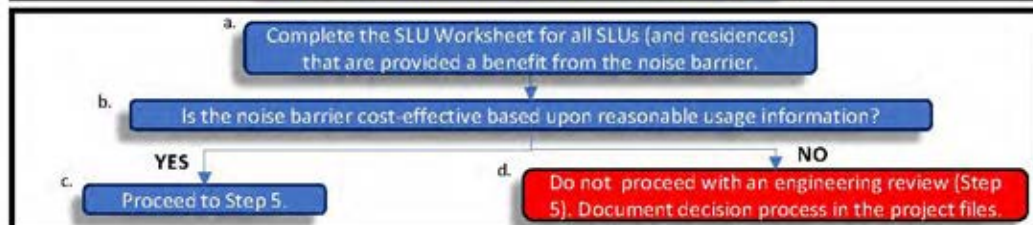
3

Barrier  
Evaluation/  
Optimization



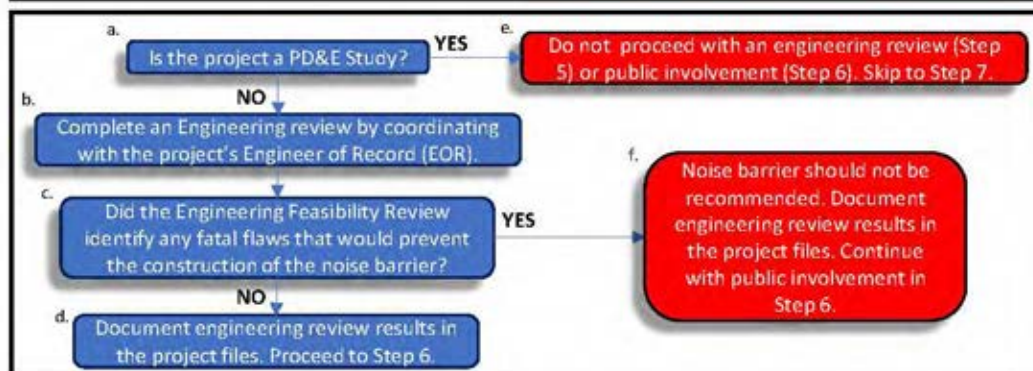
4

Determine Cost-  
Effectiveness



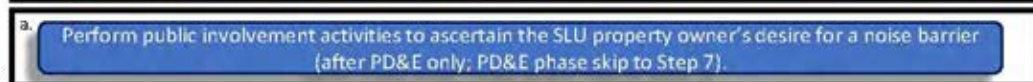
5

Engineering  
Review  
(After PD&E)



6

Public Involvement



7

Document Findings



For specific situations that are not addressed by this methodology contact the District's Noise Specialist.

**Figure 3-1:SLU Noise Abatement Evaluation Flowchart**

### 3.5. Contributing Railroad Noise Analysis

When non-highway transportation noise sources, such as freight rail facilities, may contribute to the noise levels in a project area, the potential effects of these secondary sources on the total noise level at potentially sensitive receptors must be assessed as part of the highway traffic noise assessment process. The noise levels from applicable secondary sources must be assessed separately and mathematically combined with the predicted highway traffic noise levels to determine the total impacts and the feasibility and reasonableness of noise abatement for the highway improvement.

For the CSX freight rail tracks adjacent to this study corridor, noise levels at noise sensitive receptors were assessed using guidance provided in the FRA's *Guidance on Assessing Noise and Vibration Impacts*<sup>5</sup> and the FTA's *Transit Noise and Vibration Impact Assessment*<sup>6</sup>.

Data collected from the U.S. DOT Crossing Inventory forms for three at-grade railroad crossings in proximity to the study corridor, as well as general railroad usage information from resources such as the Association of American Railroads, were used to perform the rail analysis. For this study, it was assumed that the CSX Railroad track, located west of the study corridor, can operate up to seven trains per day (four daytime and three nighttime), each with an average length of 5,280 feet and three locomotives, traveling at speeds up to 50 mph.

Using FRA guidance, the rail noise model developed as part of the Chicago Region Environmental and Transportation Efficiency (CREATE) program was used to calculate the rail-specific Leq noise levels for each receptor site that may have contributing rail noise levels. The respective Leq predictions generated by the CREATE model were mathematically added to the TNM Leq predictions for roadway noise for each receptor. The resulting cumulative noise from both transportation sources was used to identify project receptors that approach or exceed the NAC. The calculation summary table identifying the affected receptors is provided in **Appendix C**.

The noise abatement evaluation assessed two noise environment scenarios in areas that are affected by rail noise. The first scenario reflects the evaluated noise barrier's effectiveness with the influence of rail noise included in the background noise environment. The second scenario reflects the noise barrier's effectiveness without the influence of rail noise. The scenario that is most beneficial to the impacted receptors was used to determine whether the potential noise barrier met all FDOT feasibility and reasonableness criteria. The CNEs to which this approach applies are discussed individually in the following sections.

### 3.6. Common Noise Environments on the Northbound Side of CPP East

#### 3.6.1. Jamestown Residences and Powerhouse Church of God in Christ (NB01)

Multiple single-family residences in the Jamestown neighborhood are located on the northbound side of US 17/92 between the southern project terminus south of James Street and the Power Line Road Extension (CNE NB01). This area is shown on sheet 1 in the project aerials located in **Appendix E**. In this area, 18 NAC B receptor points were added to the model to represent 18 residences. Also in CNE NB01 is the Powerhouse Church of God in Christ, a NAC C receptor. Of these 19 receptors, three NAC B residences are expected to approach or exceed the 66 dB(A) NAC for the Build condition in the design year (2050). Noise levels are expected to increase up to 8.0 dB(A); therefore, no receptor experiences a



substantial increase ( $\geq 15$  dB(A)) in traffic noise when compared to the existing condition. The predicted residential noise levels are shown in **Appendix B-1**, and the SLU receptor noise levels are shown in **Appendix B-2**.

A noise barrier system was evaluated for the three impacted residential sites to abate traffic-related noise. The barrier system requires gaps for cross street access to US 17/92, which limits the barrier's noise reduction effectiveness. Based on this evaluation, none of the potential noise barrier systems analyzed could meet the cost threshold of \$64,000 per benefited residence. For this reason, noise barriers are not a feasible and reasonable option for providing noise abatement to these residential sites. **Table 3-2** summarizes the barrier configurations evaluated for CNE NB01.

**Table 3-2: Single-Family Residences (CNE NB01)**

| Height<br>(feet) | Length <sup>1</sup><br>(feet) | Location         | No. of<br>NAC B<br>Impacts | Noise Reduction at<br>Impacted Residences |                |                     | Number of Benefited Residences |                              |       |                            | Impacted<br>Res. Not<br>Benefited <sup>4</sup> | Total<br>Estimated<br>Cost <sup>5</sup> | Cost per<br>Benefited<br>Residence |
|------------------|-------------------------------|------------------|----------------------------|-------------------------------------------|----------------|---------------------|--------------------------------|------------------------------|-------|----------------------------|------------------------------------------------|-----------------------------------------|------------------------------------|
|                  |                               |                  |                            | 5-5.9<br>dB(A)                            | 6-6.9<br>dB(A) | $\geq 7.0$<br>dB(A) | Impacted <sup>2</sup>          | Not<br>Impacted <sup>3</sup> | Total | Avg.<br>Reduction<br>dB(A) |                                                |                                         |                                    |
| 8                | 866                           | ROW <sup>6</sup> | 3                          | 0                                         | 0              | 0                   | 0                              | 0                            | 0     | <5.0                       | 3                                              | N/A <sup>7</sup>                        | N/A <sup>7</sup>                   |
| 10               | 866                           | ROW <sup>6</sup> | 3                          | 0                                         | 0              | 0                   | 0                              | 0                            | 0     | <5.0                       | 3                                              | N/A <sup>7</sup>                        | N/A <sup>7</sup>                   |
| 12               | 866                           | ROW <sup>6</sup> | 3                          | 1                                         | 0              | 0                   | 1                              | 0                            | 1     | 5.8                        | 2                                              | N/A <sup>7</sup>                        | N/A <sup>7</sup>                   |
| 14               | 866                           | ROW <sup>6</sup> | 3                          | 1                                         | 1              | 0                   | 2                              | 0                            | 2     | 6.0                        | 1                                              | N/A <sup>8</sup>                        | N/A <sup>8</sup>                   |
| 16               | 866                           | ROW <sup>6</sup> | 3                          | 1                                         | 1              | 0                   | 2                              | 1                            | 3     | 6.0                        | 1                                              | N/A <sup>8</sup>                        | N/A <sup>8</sup>                   |
| 18               | 546                           | ROW <sup>6</sup> | 3                          | 1                                         | 0              | 1                   | 2                              | 1                            | 3     | 6.0                        | 1                                              | \$393,120                               | \$131,040                          |
| 20               | 661                           | ROW <sup>6</sup> | 3                          | 1                                         | 0              | 1                   | 2                              | 1                            | 3     | 6.1                        | 1                                              | \$528,800                               | \$176,267                          |
| 22               | 661                           | ROW <sup>6</sup> | 3                          | 1                                         | 0              | 1                   | 2                              | 1                            | 3     | 6.2                        | 1                                              | \$581,680                               | \$193,893                          |

<sup>1</sup> Full height is for the length indicated, including openings to accommodate cross streets and driveways.

<sup>2</sup> Benefited residences with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Benefited residences with predicted noise levels that do not approach the NAC.

<sup>4</sup> Impacted residences that do not receive a minimum 5 dB(A) reduction from analyzed noise barrier system.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ROW – Noise barrier located within the right of way of US 17/92.

<sup>7</sup> Noise barrier system did not benefit a minimum requirement of two impacted residences, so no further analysis was conducted.

<sup>8</sup> Noise barrier system did not meet the noise reduction design goal of 7 dB(A) at any receptor, so no further analysis was conducted.

### 3.6.2. Multiple Single-Family Residences and Temples Crossing (NB02)

Multiple single-family residences, the Horse Creek at Crosswinds subdivision, and the Temples Crossing subdivision are located on the northbound side of US 17/92 between the Power Line Road Extension and Lem Carnes Road (CNE NB02). This area is shown on sheets 1 through 4 in the project aerials located in **Appendix E**. In this area, 31 NAC B receptor points representing 62 residences were added to the model. Also in CNE NB02 is the Temples Crossing playground, a NAC C receptor. Of these 32 receptors, 17 NAC B residences are expected to approach or exceed the 66 dB(A) NAC for the Build condition in the design year (2050). Noise levels are expected to increase up to 10.9 dB(A); therefore, no receptor experiences a substantial increase ( $\geq 15$  dB(A)) in traffic noise when compared to the existing condition. The predicted residential noise levels are shown in **Appendix B-1**, and the SLU receptor noise levels are shown in **Appendix B-2**.

One impacted receptor, RNB02-05, is considered "isolated" because it is separated from the other impacted receptors by non-impacted properties. Because a minimum of two impacted noise sensitive

locations must be benefited for noise abatement to be feasible, noise abatement was not considered for this isolated receptor.

A noise barrier system was evaluated for the remaining 16 impacted residential sites to abate traffic-related noise. The barrier system requires multiple, closely spaced gaps for driveway access to US 17/92, which limits the barrier's noise reduction effectiveness. Based on this evaluation, none of the potential noise barrier systems analyzed could meet the cost threshold of \$64,000 per benefited residence. For this reason, noise barriers are not a feasible and reasonable option for providing noise abatement to these residential sites. **Table 3-3** summarizes the barrier configurations evaluated for CNE NB01.

**Table 3-3: Single-Family Residences (CNE NB02)**

| Height<br>(feet) | Length <sup>1</sup><br>(feet) | Location         | No. of<br>NAC B<br>Impacts | Noise Reduction at<br>Impacted Residences |                |                | Number of Benefited Residences |                              |       |                            | Impacted<br>Res. Not<br>Benefited <sup>4</sup> | Total<br>Estimated<br>Cost <sup>5</sup> | Cost per<br>Benefited<br>Residence |
|------------------|-------------------------------|------------------|----------------------------|-------------------------------------------|----------------|----------------|--------------------------------|------------------------------|-------|----------------------------|------------------------------------------------|-----------------------------------------|------------------------------------|
|                  |                               |                  |                            | 5-5.9<br>dB(A)                            | 6-6.9<br>dB(A) | ≥ 7.0<br>dB(A) | Impacted <sup>2</sup>          | Not<br>Impacted <sup>3</sup> | Total | Avg.<br>Reduction<br>dB(A) |                                                |                                         |                                    |
| 18               | 731                           | ROW <sup>6</sup> | 16                         | 0                                         | 0              | 1              | 1                              | 0                            | 1     | 7.3                        | 15                                             | N/A <sup>7</sup>                        | N/A <sup>7</sup>                   |
| 20               | 731                           | ROW <sup>6</sup> | 16                         | 1                                         | 0              | 1              | 2                              | 0                            | 2     | 6.2                        | 14                                             | \$584,800                               | \$292,400                          |
| 22               | 731                           | ROW <sup>6</sup> | 16                         | 1                                         | 0              | 1              | 2                              | 0                            | 2     | 6.3                        | 14                                             | \$643,280                               | \$321,640                          |

<sup>1</sup> Full height is for the length indicated, including openings to accommodate driveways.

<sup>2</sup> Benefited residences with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Benefited residences with predicted noise levels that do not approach the NAC.

<sup>4</sup> Impacted residences that do not receive a minimum 5 dB(A) reduction from analyzed noise barrier system.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ROW – Noise barrier located within the right of way of US 17/92.

<sup>7</sup> Noise barrier system did not benefit a minimum requirement of two impacted residences, so no further analysis was conducted.

### 3.6.3. Multiple Single-Family Residences and Kissimmee South MH and RV Resort (NB03)

Multiple single-family residences and the Kissimmee South MH and RV Resort are located on the northbound side of US 17/92 between Lem Carnes Road and the project's terminus east of Sunny Acres Road (CNE NB03). This area is shown on sheets 4, 15, and 16 in the project aerials located in **Appendix E**.

A planned residential community called Pine Point has been identified in this CNE at the intersection of US 17/92 with Ernie Caldwell Boulevard. As of August 6, 2025, there were no active building permits for noise-sensitive land uses. A land use review will be performed during the design phase to identify if this development received residential building permits subsequent to the noise study but prior to the project's Date of Public Knowledge (DPK). All homes that receive a building permit prior to the DPK will be included in the design analysis.

In CNE NB03, 17 NAC B receptor points were added to the model to represent 49 residences. Of these 49 receptors, 20 residences are expected to approach or exceed the 66 dB(A) NAC for the Build condition in the design year (2050). Noise levels are expected to increase up to 7.2 dB(A); therefore, no receptor experiences a substantial increase (≥15 dB(A) over existing conditions) in traffic noise. The predicted residential noise levels are shown in **Appendix B-1**.

Because a minimum of two impacted residences must be benefited for noise abatement to be feasible, noise abatement was not considered for the isolated impacted single-family residence (RNB03-01).

Noise barriers were evaluated for the 19 impacted residences at the Kissimmee South MH and RV Resort to abate traffic-related noise. **Table 3-4** summarizes the barrier configurations evaluated for CNE NB03. Based on this evaluation, a potential noise barrier system located along the US 17/92 ROW could provide a 7 dB(A) reduction at one or more receptors and a 5 dB(A) reduction at two or more impacted receptors. This noise barrier will not exceed the allowable \$64,000 per benefited receptor and, therefore, is a cost reasonable method to abate traffic-related noise impacts for the residences in CNE NB03.

The noise barrier system analyzed in CNE NB03 is the maximum height and length that was determined to be constructible. However, these potential dimensions are based on PD&E phase concepts. Future refinements in the project design phase and known constraints such as utilities, drainage, etc., could alter the barrier's placement, dimensions, and access. Such changes could render this noise barrier no longer constructible or not meet FDOT noise abatement criteria. Assuming the barrier is still feasible and reasonable in the design phase, community input may be solicited to confirm support.

**Table 3-4: Kissimmee MH & RV Park (CNE NB03)**

| Height<br>(feet) | Length <sup>1</sup><br>(feet) | Location         | No. of<br>NAC B<br>Impacts | Noise Reduction at<br>Impacted Residences |                |                | Number of Benefited Residences |                              |       |                            | Impacted<br>Res. Not<br>Benefited <sup>4</sup> | Total<br>Estimated<br>Cost <sup>5</sup> | Cost per<br>Benefited<br>Residence |
|------------------|-------------------------------|------------------|----------------------------|-------------------------------------------|----------------|----------------|--------------------------------|------------------------------|-------|----------------------------|------------------------------------------------|-----------------------------------------|------------------------------------|
|                  |                               |                  |                            | 5-5.9<br>dB(A)                            | 6-6.9<br>dB(A) | ≥ 7.0<br>dB(A) | Impacted <sup>2</sup>          | Not<br>Impacted <sup>3</sup> | Total | Avg.<br>Reduction<br>dB(A) |                                                |                                         |                                    |
| 8                | 1,580                         | ROW <sup>6</sup> | 19                         | 5                                         | 0              | 0              | 5                              | 0                            | 5     | 5.9                        | 14                                             | N/A <sup>7</sup>                        | N/A <sup>7</sup>                   |
| 10               | 1,580                         | ROW <sup>6</sup> | 19                         | 14                                        | 0              | 5              | 19                             | 0                            | 19    | 6.8                        | 0                                              | \$632,000                               | \$33,263                           |
| 12               | 1,580                         | ROW <sup>6</sup> | 19                         | 0                                         | 0              | 19             | 19                             | 1                            | 20    | 7.7                        | 0                                              | \$758,400                               | \$37,920                           |
| 14               | 1,580                         | ROW <sup>6</sup> | 19                         | 0                                         | 0              | 19             | 19                             | 4                            | 23    | 7.2                        | 0                                              | \$884,800                               | \$38,470                           |
| 16               | 1,580                         | ROW <sup>6</sup> | 19                         | 0                                         | 0              | 19             | 19                             | 14                           | 33    | 7.2                        | 0                                              | \$1,011,200                             | \$30,642                           |
| 18               | 1,580                         | ROW <sup>6</sup> | 19                         | 0                                         | 0              | 19             | 19                             | 21                           | 40    | 7.6                        | 0                                              | \$1,137,600                             | \$28,440                           |
| 20               | 1,580                         | ROW <sup>6</sup> | 19                         | 0                                         | 0              | 19             | 19                             | 21                           | 40    | 8.1                        | 0                                              | \$1,264,000                             | \$31,600                           |
| 22               | 1,580                         | ROW <sup>6</sup> | 19                         | 0                                         | 0              | 19             | 19                             | 24                           | 43    | 8.2                        | 0                                              | \$1,390,400                             | \$32,335                           |

<sup>1</sup> Full height is for the preliminary length indicated.

<sup>2</sup> Benefited residences with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Benefited residences with predicted noise levels that do not approach the NAC.

<sup>4</sup> Impacted residences that do not receive a minimum 5 dB(A) reduction from analyzed noise barrier system.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ROW – Noise barrier located within the right of way of US 17/92.

<sup>7</sup> Noise barrier system did not meet the noise reduction design goal of 7 dB(A) at any receptor, so no further analysis was conducted.

*Note: Potential noise barriers are based on PD&E phase concepts. Future refinements in the project design phase and known constraints such as overhead utilities, drainage, etc., could alter barrier system placement, dimensions, and access. Such changes could render noise barriers no longer constructible or not meet FDOT noise abatement criteria. Assuming barriers are still feasible and reasonable in the design phase, community input may be solicited to confirm support.*

### 3.6.4. Multiple Single-Family Residences (NB04)

Multiple single-family residences are located on the northbound side of the CPP East new alignment between Ernie Caldwell Boulevard and south of Providence Boulevard (CNE NB04). This area is shown on sheets 5 through 9, and sheets 15 and 16 in the project aerials located in **Appendix E**. In this area, 15 NAC B receptor points representing 17 residences were added to the model. Eight of the receptors are located in areas where traffic noise is not the predominant noise source. For these residences, the average ambient noise measurement of 45.8 dB(A) was applied to represent the existing noise condition

instead of the TNM-predicted noise level. Refer to **Section 3.2** for more information on the field-measured ambient noise levels.

Additionally, the overall noise environment for this CNE includes noise from the adjacent CSX railroad. The contributing rail noise was added to the TNM noise predictions using the methodology discussed in **Section 3.6** and is summarized in **Appendix C**.

Noise levels at four residences are expected to approach or exceed the 66 dB(A) NAC for the Build condition in the design year (2050). Noise levels are expected to increase up to 9.1 dB(A); therefore, no receptor experiences a substantial increase ( $\geq 15$  dB(A) over existing conditions) in traffic noise. The predicted residential noise levels are shown in **Appendix B-1**. Because a minimum of two impacted residences must be benefited for noise abatement to be feasible, noise abatement was not considered for the isolated impacted single-family residence (RNB04-06).

A noise barrier system was evaluated for three impacted residential sites to abate traffic-related noise. The barrier system requires gaps for driveway access to US 17/92, which limits the barrier's noise reduction effectiveness. For noise abatement evaluation, two scenarios were assessed to determine the scenario that is most beneficial to the impacted receptors. The first scenario, summarized in **Table 3-5**, reflects the noise barrier system's effectiveness with the influence of rail noise. The second scenario, summarized in **Table 3-6**, reflects the noise barrier system's effectiveness without the influence of rail noise. Based on the evaluation, both barrier scenarios could provide a 7 dB(A) reduction at one or more receptors and a 5 dB(A) reduction at two or more impacted receptors, but they exceed the allowable \$64,000 per benefited receptor. For this reason, noise barriers are not a feasible and reasonable option for providing noise abatement to these residential sites in CNE NB04.

**Table 3-5: Single-Family Residences - With Rail Influence (CNE NB04)**

| Height<br>(feet) | Length <sup>1</sup><br>(feet) | Location         | No. of<br>NAC B<br>Impacts | Noise Reduction at<br>Impacted Residences |                |                     | Number of Benefited Residences |                              |       |                            | Impacted<br>Res. Not<br>Benefited <sup>4</sup> | Total<br>Estimated<br>Cost <sup>5</sup> | Cost per<br>Benefited<br>Residence |
|------------------|-------------------------------|------------------|----------------------------|-------------------------------------------|----------------|---------------------|--------------------------------|------------------------------|-------|----------------------------|------------------------------------------------|-----------------------------------------|------------------------------------|
|                  |                               |                  |                            | 5-5.9<br>dB(A)                            | 6-6.9<br>dB(A) | $\geq 7.0$<br>dB(A) | Impacted <sup>2</sup>          | Not<br>Impacted <sup>3</sup> | Total | Avg.<br>Reduction<br>dB(A) |                                                |                                         |                                    |
| 8                | 851                           | ROW <sup>6</sup> | 3                          | 1                                         | 1              | 0                   | 2                              | 0                            | 2     | 5.9                        | 1                                              | N/A <sup>7</sup>                        | N/A <sup>7</sup>                   |
| 10               | 523                           | ROW <sup>6</sup> | 3                          | 1                                         | 1              | 1                   | 3                              | 0                            | 3     | 6.2                        | 0                                              | \$209,200                               | \$69,733                           |
| 12               | 434                           | ROW <sup>6</sup> | 3                          | 0                                         | 1              | 1                   | 2                              | 0                            | 2     | 7.2                        | 1                                              | \$208,320                               | \$104,160                          |
| 14               | 434                           | ROW <sup>6</sup> | 3                          | 1                                         | 0              | 2                   | 3                              | 0                            | 3     | 6.8                        | 0                                              | \$243,040                               | \$81,013                           |
| 16               | 434                           | ROW <sup>6</sup> | 3                          | 1                                         | 0              | 2                   | 3                              | 0                            | 3     | 7.0                        | 0                                              | \$277,760                               | \$92,587                           |
| 18               | 434                           | ROW <sup>6</sup> | 3                          | 1                                         | 0              | 2                   | 3                              | 0                            | 3     | 7.2                        | 0                                              | \$312,480                               | \$104,160                          |
| 20               | 434                           | ROW <sup>6</sup> | 3                          | 1                                         | 0              | 2                   | 3                              | 0                            | 3     | 7.3                        | 0                                              | \$347,200                               | \$115,733                          |
| 22               | 434                           | ROW <sup>6</sup> | 3                          | 1                                         | 0              | 2                   | 3                              | 0                            | 3     | 7.4                        | 0                                              | \$381,920                               | \$127,307                          |

<sup>1</sup> Full height is for the length indicated, including openings to accommodate driveways.

<sup>2</sup> Benefited residences with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Benefited residences with predicted noise levels that do not approach the NAC.

<sup>4</sup> Impacted residences that do not receive a minimum 5 dB(A) reduction from analyzed noise barrier system.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ROW – Noise barrier located within the right of way of US 17/92.

<sup>7</sup> Noise barrier system did not meet the noise reduction design goal of 7 dB(A) at any receptor, so no further analysis was conducted.

**Table 3-6: Single-Family Residences – Without Rail Influence (CNE NB04)**

| Height<br>(feet) | Length <sup>1</sup><br>(feet) | Location         | No. of<br>NAC B<br>Impacts | Noise Reduction at<br>Impacted Residences |                |                | Number of Benefited Residences |                              |       |                            | Impacted<br>Res. Not<br>Benefited <sup>4</sup> | Total<br>Estimated<br>Cost <sup>5</sup> | Cost per<br>Benefited<br>Residence |
|------------------|-------------------------------|------------------|----------------------------|-------------------------------------------|----------------|----------------|--------------------------------|------------------------------|-------|----------------------------|------------------------------------------------|-----------------------------------------|------------------------------------|
|                  |                               |                  |                            | 5-5.9<br>dB(A)                            | 6-6.9<br>dB(A) | ≥ 7.0<br>dB(A) | Impacted <sup>2</sup>          | Not<br>Impacted <sup>3</sup> | Total | Avg.<br>Reduction<br>dB(A) |                                                |                                         |                                    |
| 8                | 851                           | ROW <sup>6</sup> | 3                          | 2                                         | 1              | 0              | 3                              | 0                            | 3     | 5.7                        | 0                                              | N/A <sup>7</sup>                        | N/A <sup>7</sup>                   |
| 10               | 523                           | ROW <sup>6</sup> | 3                          | 1                                         | 1              | 1              | 3                              | 0                            | 3     | 6.4                        | 0                                              | \$209,200                               | \$69,733                           |
| 12               | 434                           | ROW <sup>6</sup> | 3                          | 1                                         | 0              | 2              | 3                              | 0                            | 3     | 6.7                        | 0                                              | \$208,320                               | \$69,440                           |
| 14               | 434                           | ROW <sup>6</sup> | 3                          | 1                                         | 0              | 2              | 3                              | 0                            | 3     | 7.1                        | 0                                              | \$243,040                               | \$81,013                           |
| 16               | 434                           | ROW <sup>6</sup> | 3                          | 1                                         | 0              | 2              | 3                              | 0                            | 3     | 7.3                        | 0                                              | \$277,760                               | \$92,587                           |
| 18               | 434                           | ROW <sup>6</sup> | 3                          | 0                                         | 1              | 2              | 3                              | 0                            | 3     | 7.5                        | 0                                              | \$312,480                               | \$104,160                          |
| 20               | 434                           | ROW <sup>6</sup> | 3                          | 0                                         | 1              | 2              | 3                              | 0                            | 3     | 7.6                        | 0                                              | \$347,200                               | \$115,733                          |
| 22               | 434                           | ROW <sup>6</sup> | 3                          | 0                                         | 1              | 2              | 3                              | 0                            | 3     | 7.7                        | 0                                              | \$381,920                               | \$127,307                          |

<sup>1</sup> Full height is for the length indicated, including openings to accommodate driveways.

<sup>2</sup> Benefited residences with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Benefited residences with predicted noise levels that do not approach the NAC.

<sup>4</sup> Impacted residences that do not receive a minimum 5 dB(A) reduction from analyzed noise barrier system.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ROW – Noise barrier located within the right of way of US 17/92.

<sup>7</sup> Noise barrier system did not meet the noise reduction design goal of 7 dB(A) at any receptor, so no further analysis was conducted.

### 3.6.5. Providence and Kinney Harmon Cemetery (NB05)

The Providence neighborhood is located on the northbound side of the CPP East from south of Providence Boulevard to Ronald Reagan Parkway (CNE NB05). This area is shown on sheets 9 through 11 in the project aerials, located in **Appendix E**. In this area, 45 NAC B receptor points were added to the model to represent 45 residences. Also in CNE NB05 is the Kinney Harmon Cemetery, a NAC C receptor. Thirteen of the 45 residences are located in areas where traffic noise is not the predominant noise source. For these residences, the average ambient noise measurement of 45.8 dB(A) was applied to represent the existing noise condition instead of the TNM-predicted noise level. Refer to **Section 3.2** for more information on the field-measured ambient noise levels.

Of these 46 total receptors, five NAC B residences are expected to approach or exceed the 66 dB(A) NAC for the Build condition in the design year (2050). Additionally, 19 NAC B receptors, including the five impacted by noise levels, are impacted by a substantial increase (≥15 dB(A) over existing conditions), with the maximum predicted increase being 19.0 dB(A). The predicted residential noise levels are shown in **Appendix B-1**, and the SLU receptor noise levels are shown in **Appendix B-2**.

Noise barriers were evaluated for the 19 impacted residences at the Providence subdivision to abate traffic-related noise. Based on this evaluation, a potential noise barrier system located along the northbound shoulder, bridge structure, and mechanically stabilized earth (MSE) of the CPP East could provide a 7 dB(A) reduction at one or more receptors and a 5 dB(A) reduction at two or more impacted receptors. This noise barrier will not exceed the allowable \$64,000 per benefited receptor and, therefore, noise barriers are a cost reasonable method to abate traffic-related noise impacts for the residences in CNE NB05. **Table 3-7** summarizes the barrier configurations evaluated for CNE NB05.

**Table 3-7: Providence (CNE NB05)**

| Height<br>(feet) | Length <sup>1</sup><br>(feet) | Location           | No. of<br>NAC B<br>Impacts | Noise Reduction at<br>Impacted Residences |                |                | Number of Benefited Residences |                              |       |                            | Impacted<br>Res. Not<br>Benefited <sup>4</sup> | Total<br>Estimated<br>Cost <sup>5</sup> | Cost per<br>Benefited<br>Residence |
|------------------|-------------------------------|--------------------|----------------------------|-------------------------------------------|----------------|----------------|--------------------------------|------------------------------|-------|----------------------------|------------------------------------------------|-----------------------------------------|------------------------------------|
|                  |                               |                    |                            | 5-5.9<br>dB(A)                            | 6-6.9<br>dB(A) | ≥ 7.0<br>dB(A) | Impacted <sup>2</sup>          | Not<br>Impacted <sup>3</sup> | Total | Avg.<br>Reduction<br>dB(A) |                                                |                                         |                                    |
| 22               | 396                           | ROW <sup>6</sup>   | 19                         | 4                                         | 3              | 12             | 19                             | 22                           | 41    | 6.7                        | 0                                              | \$1,854,240                             | \$45,225                           |
| 8                | 306                           | ST <sup>7</sup>    |                            |                                           |                |                |                                |                              |       |                            |                                                |                                         |                                    |
| 14               | 2,514                         | SHLDR <sup>8</sup> | 19                         | 5                                         | 5              | 9              | 19                             | 18                           | 37    | 6.2                        | 0                                              | \$1,505,760                             | \$40,696                           |
| 8                | 306                           | ST <sup>7</sup>    |                            |                                           |                |                |                                |                              |       |                            |                                                |                                         |                                    |
| 14               | 2,514                         | SHLDR <sup>8</sup> |                            |                                           |                |                |                                |                              |       |                            |                                                |                                         |                                    |

<sup>1</sup> Full height is for the length indicated. If a shoulder noise barrier location is indicated, the length of vertical height tapers at the shoulder barrier's terminus (See FDOT Standard Plans) would be in addition to the length indicated.

<sup>2</sup> Benefited residences with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Benefited residences with predicted noise levels that do not approach the NAC.

<sup>4</sup> Impacted residences that do not receive a minimum 5 dB(A) reduction from proposed noise barrier system.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ROW – Noise barrier system located inside the CPP East right of way.

<sup>7</sup> ST – Noise barrier system located on CPP East bridge structure and/or MSE.

<sup>8</sup> SHLDR – Noise barrier system located on CPP East outside shoulder.

*Note: Potential noise barriers are based on PD&E phase concepts. Future refinements in the project design phase and known constraints such as overhead utilities, drainage, etc., could alter barrier system placement, dimensions, and access. Such changes could render noise barriers no longer constructible or not meet FDOT noise abatement criteria. Assuming barriers are still feasible and reasonable in the design phase, community input may be solicited to confirm support.*

The noise barrier system analyzed in CNE NB05 is the maximum height and length that was determined to be constructible. However, these potential dimensions are based on PD&E phase concepts. Future refinements in the project design phase and known constraints such as utilities, drainage, etc., could alter the barrier's placement, dimensions, and access. Such changes could render this noise barrier no longer constructible or not meet FDOT noise abatement criteria. Assuming the barrier is still feasible and reasonable in the design phase, community input may be solicited to confirm support.

### 3.6.6. Vista Mar and Multiple Single-Family Residences (NB06)

The Vista Mar neighborhood and multiple single-family residences are located on the northbound side of the CPP East from Ronald Reagan Parkway to US 17/92 (CNE NB06). This area is shown on sheets 11 through 13 in the project aerials, located in **Appendix E**. In this area, 33 NAC B receptor points were added to the model to represent 69 residences. Of these receptors, six residences are expected to approach or exceed the 66 dB(A) NAC for the Build condition in the design year (2050). Additionally, 12 NAC B receptors are impacted by a substantial increase (≥15 dB(A) over existing conditions), with the maximum predicted increase being 17.3 dB(A). The predicted residential noise levels are shown in **Appendix B-1**.

Noise barriers were evaluated for the 18 total impacted residences to abate traffic-related noise. The existing pond adjacent to Vista Mar limits the ability to construct an effectively long noise barrier along the CPP East northbound ROW. Based on this evaluation, none of the potential noise barrier systems analyzed could meet the minimum requirement of a 5 dB(A) noise reduction at two impacted residences. For this reason, noise barriers are not a feasible and reasonable option for providing noise



abatement to these residential sites. **Table 3-8** summarizes the barrier configurations evaluated for CNE NB06.

**Table 3-8: Vista Mar and Single-Family Residences (CNE NB06)**

| Height<br>(feet) | Length <sup>1</sup><br>(feet) | Location           | No. of<br>NAC B<br>Impacts | Noise Reduction at<br>Impacted Residences |                |                | Number of Benefited Residences |                              |       |                            | Impacted<br>Res. Not<br>Benefited <sup>4</sup> | Total<br>Estimated<br>Cost <sup>5</sup> | Cost per<br>Benefited<br>Residence |
|------------------|-------------------------------|--------------------|----------------------------|-------------------------------------------|----------------|----------------|--------------------------------|------------------------------|-------|----------------------------|------------------------------------------------|-----------------------------------------|------------------------------------|
|                  |                               |                    |                            | 5-5.9<br>dB(A)                            | 6-6.9<br>dB(A) | ≥ 7.0<br>dB(A) | Impacted <sup>2</sup>          | Not<br>Impacted <sup>3</sup> | Total | Avg.<br>Reduction<br>dB(A) |                                                |                                         |                                    |
| 22               | 1,387                         | ROW <sup>6</sup>   | 18                         | 0                                         | 0              | 0              | 0                              | 35                           | 35    | 6                          | 18                                             | N/A <sup>9</sup>                        | N/A <sup>9</sup>                   |
| 8                | 3,866                         | ST <sup>7</sup>    |                            |                                           |                |                |                                |                              |       |                            |                                                |                                         |                                    |
| 14               | 829                           | SHLDR <sup>8</sup> |                            |                                           |                |                |                                |                              |       |                            |                                                |                                         |                                    |

<sup>1</sup> Full height is for the length indicated. If a shoulder noise barrier location is indicated, the length of vertical height tapers at the shoulder barrier's terminus (See FDOT Standard Plans) would be in addition to the length indicated.

<sup>2</sup> Benefited residences with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Benefited residences with predicted noise levels that do not approach the NAC.

<sup>4</sup> Impacted residences that do not receive a minimum 5 dB(A) reduction from analyzed noise barrier system.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ROW – Noise barrier system located inside the CPP East right of way.

<sup>7</sup> ST – Noise barrier system located on CPP East bridge structure and/or mechanically stabilized earth (MSE).

<sup>8</sup> SHLDR – Noise barrier system located on CPP East outside shoulder.

<sup>9</sup> Noise barrier system did not benefit a minimum requirement of two impacted residences, so no further analysis was conducted.

### 3.6.7. Multiple Single-Family Residences (NB07)

Multiple single-family residences are located on the northbound side of the CPP East between US 17/92 and the project's terminus with the Poinciana Connector (SR 538) (CNE NB07). This area is shown on sheet 13 and sheet 14 in the project aerials located in **Appendix E**. In this area, three NAC B receptor points representing three residences were added to the model. One of the receptors is located in areas where traffic noise is not the predominant noise source. For this residence, the average ambient noise measurement of 45.8 dB(A) was applied to represent the existing noise condition instead of the TNM-predicted noise level. Refer to **Section 3.2** for more information on the field-measured ambient noise levels.

Additionally, the overall noise environment for this CNE includes noise from the adjacent CSX railroad. The contributing rail noise was added to the TNM noise predictions using the methodology discussed in **Section 3.6** and is summarized in **Appendix C**.

Noise levels at all three residences are expected to approach or exceed the 66 dB(A) NAC for the Build condition in the design year (2050). Noise levels are expected to increase up to 8.2 dB(A); therefore, no receptor experiences a substantial increase (≥15 dB(A)) in traffic noise when compared to the existing condition. The predicted noise levels are shown in **Appendix B-1**.

A noise barrier system was evaluated for the three impacted residential sites to abate traffic-related noise. The barrier system was analyzed on the northbound outside shoulder of the CPP East overpasses and MSE wall and is limited to a maximum height of 8 feet. For the noise abatement evaluation, two scenarios were assessed to determine the scenario that is most beneficial to the impacted receptors. The first scenario, summarized in **Table 3-9**, reflects the noise barrier system's effectiveness with the influence of rail noise. The second scenario, summarized in **Table 3-10**, reflects the effectiveness of the

noise barrier system without the influence of rail noise. Based on this evaluation, regardless of rail noise, none of the analyzed noise barrier systems could attain the required minimum benefit of 5 dB(A) to two impacted residences. For this reason, noise barriers are not a feasible and reasonable option for providing noise abatement to these residential sites in CNE NB07.

**Table 3-9: Single-Family Residences - With Rail Influence (CNE NB07)**

| Height<br>(feet) | Length <sup>1</sup><br>(feet) | Location        | No. of<br>NAC B<br>Impacts | Noise Reduction at<br>Impacted Residences |                |                | Number of Benefited Residences |                              |       |                            | Impacted<br>Res. Not<br>Benefited <sup>4</sup> | Total<br>Estimated<br>Cost <sup>5</sup> | Cost per<br>Benefited<br>Residence |
|------------------|-------------------------------|-----------------|----------------------------|-------------------------------------------|----------------|----------------|--------------------------------|------------------------------|-------|----------------------------|------------------------------------------------|-----------------------------------------|------------------------------------|
|                  |                               |                 |                            | 5-5.9<br>dB(A)                            | 6-6.9<br>dB(A) | ≥ 7.0<br>dB(A) | Impacted <sup>2</sup>          | Not<br>Impacted <sup>3</sup> | Total | Avg.<br>Reduction<br>dB(A) |                                                |                                         |                                    |
| 8                | 3,339                         | ST <sup>6</sup> | 3                          | 0                                         | 0              | 0              | 0                              | 0                            | 0     | <5.0                       | 3                                              | N/A <sup>7</sup>                        | N/A <sup>7</sup>                   |

<sup>1</sup> Full height is for the length indicated. If a shoulder noise barrier location is indicated, the length of vertical height tapers at the shoulder barrier's terminus (See FDOT Standard Plans) would be in addition to the length indicated.

<sup>2</sup> Benefited residences with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Benefited residences with predicted noise levels that do not approach the NAC.

<sup>4</sup> Impacted residences that do not receive a minimum 5 dB(A) reduction from analyzed noise barrier system.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ST – Noise barrier system located on CPP East bridge structure and/or mechanically stabilized earth (MSE).

<sup>7</sup> Noise barrier system did not benefit a minimum requirement of two impacted residences, so no further analysis was conducted.

**Table 3-10: Single-Family Residences – Without Rail Influence (CNE NB07)**

| Height<br>(feet) | Length <sup>1</sup><br>(feet) | Location        | No. of<br>NAC B<br>Impacts | Noise Reduction at<br>Impacted Residences |                |                | Number of Benefited Residences |                              |       |                            | Impacted<br>Res. Not<br>Benefited <sup>4</sup> | Total<br>Estimated<br>Cost <sup>5</sup> | Cost per<br>Benefited<br>Residence |
|------------------|-------------------------------|-----------------|----------------------------|-------------------------------------------|----------------|----------------|--------------------------------|------------------------------|-------|----------------------------|------------------------------------------------|-----------------------------------------|------------------------------------|
|                  |                               |                 |                            | 5-5.9<br>dB(A)                            | 6-6.9<br>dB(A) | ≥ 7.0<br>dB(A) | Impacted <sup>2</sup>          | Not<br>Impacted <sup>3</sup> | Total | Avg.<br>Reduction<br>dB(A) |                                                |                                         |                                    |
| 8                | 3,339                         | ST <sup>6</sup> | 3                          | 0                                         | 0              | 0              | 0                              | 0                            | 0     | <5.0                       | 3                                              | N/A <sup>7</sup>                        | N/A <sup>7</sup>                   |

<sup>1</sup> Full height is for the length indicated. If a shoulder noise barrier location is indicated, the length of vertical height tapers at the shoulder barrier's terminus (See FDOT Standard Plans) would be in addition to the length indicated.

<sup>2</sup> Benefited residences with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Benefited residences with predicted noise levels that do not approach the NAC.

<sup>4</sup> Impacted residences that do not receive a minimum 5 dB(A) reduction from analyzed noise barrier system.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ST – Noise barrier system located on CPP East bridge structure and/or mechanically stabilized earth (MSE).

<sup>7</sup> Noise barrier system did not benefit a minimum requirement of two impacted residences, so no further analysis was conducted.

### 3.7. Noise Sensitive Area on the Southbound Side of CPP East

#### 3.7.1. Jamestown Residences, Churches, and Jamestown Park (SB01)

Multiple single-family residences in the Jamestown neighborhood are located on the southbound side of US 17/92 between the southern project terminus south of James Street and Bargain Barn Road (CNE SB01). This area is shown on sheet 1 in the project aerials located in **Appendix E**. The overall noise environment for this CNE includes noise from the adjacent CSX railroad. The contributing rail noise was added to the TNM noise predictions using the methodology discussed in **Section 3.6** and is summarized in **Appendix C**.

In this area, 17 NAC B receptor points were added to the model to represent 17 residences. Also in CNE SB01, there are four churches and the Jamestown Park basketball courts and playground, all NAC C receptors. Of these 23 receptors, one NAC B residence, the basketball courts, playground, and three churches are expected to approach or exceed the 66 dB(A) NAC for the Build condition in the design

year (2050). Noise levels are expected to increase up to 6.2 dB(A); therefore, no receptor experiences a substantial increase ( $\geq 15$  dB(A)) in traffic noise when compared to the existing condition. The predicted residential noise levels are shown in **Appendix B-1**, and the SLU receptor noise levels are shown in **Appendix B-2**.

A noise barrier system was evaluated for the one impacted residence and the five impacted NAC C receptors to abate traffic-related noise. The barrier system requires gaps for cross street access to US 17/92, which limits the barrier's noise abatement effectiveness on some impacted receptors. Person-hours of use for the NAC C receptors were calculated following the FDOT SLU special use abatement procedure outlined in **Section 3.5**. The Jamestown Park basketball courts, playground, and picnic pavilions were estimated to have 218 users per day, visiting for two hours/visitor. This conservative estimate equates to 158,704 annual person-hours and an Equivalent Residence (ER) value of 7.16. Each of the church entrances was estimated to have 100 users per day, visiting for 0.5 hours/visitor. This conservative estimate equates to 18,200 annual person-hours and an Equivalent Residence (ER) value of 0.82 per church. The total number of impacted ERs for the SLUs in CNE SB01 is 9.62. Refer to **Appendix E** for the SLU Equivalent Residence (ER) Barrier Evaluation, presenting the Benefited ER calculations for the four SLU receptors, which is a component of the overall abatement evaluation discussed below.

For the noise abatement acoustical evaluation, two scenarios were assessed to determine the scenario that is most beneficial to the impacted receptors. In both scenarios, a barrier system was evaluated at varying heights and lengths to determine potential noise reduction benefits. The noise barrier system does not provide a benefit to the impacted residential receptor with any evaluated configuration. Consequently, each scenario evaluated an optimized lowest cost configuration for the NAC C receptors. The first scenario, summarized in **Table 3-11**, reflects the noise barrier system's acoustical effectiveness with the influence of rail noise.

**Table 3-11: Residential and SLU – With Rail Influence (CNE SB01)**

| Height (feet) | Length <sup>1</sup> (feet) | Location         | No. of Impacted ERs <sup>2</sup> | Impacted and Benefited ERs <sup>3</sup> | Total Benefited ERs <sup>4</sup> | Avg. Reduction dB(A) | Total Estimated Cost <sup>5</sup> | Cost per Benefited ER | Barrier Feasible and Reasonable? |
|---------------|----------------------------|------------------|----------------------------------|-----------------------------------------|----------------------------------|----------------------|-----------------------------------|-----------------------|----------------------------------|
| 8             | 1,335                      | ROW <sup>6</sup> | 9.62                             | 3.60                                    | 3.58                             | 6.2                  | \$427,200                         | \$119,330             | No <sup>7,8</sup>                |
| 10            | 1,335                      | ROW <sup>6</sup> | 9.62                             | 3.60                                    | 3.58                             | 7.3                  | \$534,000                         | \$149,162             | No <sup>8</sup>                  |
| 12            | 1,335                      | ROW <sup>6</sup> | 9.62                             | 3.60                                    | 3.58                             | 7.9                  | \$640,800                         | \$178,994             | No <sup>8</sup>                  |
| 14            | 822                        | ROW <sup>6</sup> | 9.62                             | 3.60                                    | 3.58                             | 8.0                  | \$460,320                         | \$128,581             | No <sup>8</sup>                  |
| 16            | 1,335                      | ROW <sup>6</sup> | 9.62                             | 3.60                                    | 3.58                             | 8.5                  | \$854,400                         | \$238,659             | No <sup>8</sup>                  |
| 18            | 1,335                      | ROW <sup>6</sup> | 9.62                             | 3.60                                    | 3.58                             | 8.8                  | \$961,200                         | \$268,492             | No <sup>8</sup>                  |
| 20            | 1,335                      | ROW <sup>6</sup> | 9.62                             | 7.20                                    | 7.16                             | 7.0                  | \$1,068,000                       | \$149,162             | No <sup>8</sup>                  |
| 22            | 1,335                      | ROW <sup>6</sup> | 9.62                             | 7.20                                    | 7.16                             | 7.2                  | \$1,174,800                       | \$164,078             | No <sup>8</sup>                  |

<sup>1</sup> Full height is for the length indicated.

<sup>2</sup> ERs (Equivalent Residences) include NAC B and NAC C receptors with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Impacted NAC B and NAC C receptors that receive at least 5 dB(A) reduction from proposed noise barrier.

<sup>4</sup> All NAC B and NAC C receptors that receive at least 5 dB(A) reduction from proposed noise barrier.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ROW – Right of Way noise barrier constructed on US 17/92.

<sup>7</sup> Noise barrier system did not meet the noise reduction design goal of 7 dB(A) at any receptor.

<sup>8</sup> Barrier cannot meet FDOT's allowable cost threshold of \$64,000 per ER.

The evaluated noise barrier configurations with the addition of rail noise could provide a 7 dB(A) reduction at one or more receptors and a 5 dB(A) reduction at two or more impacted receptors. However, the noise barrier system exceeds the allowable \$64,000 per benefited receptor under this scenario.

The second scenario, summarized in **Table 3-12**, reflects the effectiveness of the noise barrier system without the influence of rail noise. Without the rail noise, there is one less impacted NAC C receptor. This equates to a lower total number of impacted ERs in CNE SB01 of 8.80.

**Table 3-12: Residential and SLU - Without Rail Influence (CNE SB01)**

| Height (feet) | Length <sup>1</sup> (feet) | Location         | No. of Impacted ERs <sup>2</sup> | Impacted and Benefited ERs <sup>3</sup> | Total Benefited ERs <sup>4</sup> | Avg. Reduction dB(A) | Total Estimated Cost <sup>5</sup> | Cost per Benefited ER | Barrier Feasible and Reasonable? |
|---------------|----------------------------|------------------|----------------------------------|-----------------------------------------|----------------------------------|----------------------|-----------------------------------|-----------------------|----------------------------------|
| 8             | 1,335                      | ROW <sup>6</sup> | 8.80                             | 3.60                                    | 3.58                             | 6.6                  | \$427,200                         | \$119,330             | No <sup>7,8</sup>                |
| 10            | 1,335                      | ROW <sup>6</sup> | 8.80                             | 3.60                                    | 3.58                             | 7.8                  | \$534,000                         | \$149,162             | No <sup>8</sup>                  |
| 12            | 1,335                      | ROW <sup>6</sup> | 8.80                             | 3.60                                    | 3.58                             | 6.8                  | \$640,800                         | \$178,994             | No <sup>8</sup>                  |
| 14            | 822                        | ROW <sup>6</sup> | 8.80                             | 7.20                                    | 7.16                             | 6.9                  | \$460,320                         | \$64,291              | No <sup>8</sup>                  |
| 16            | 1,335                      | ROW <sup>6</sup> | 8.80                             | 7.20                                    | 7.16                             | 6.8                  | \$854,400                         | \$119,330             | No <sup>8</sup>                  |
| 18            | 1,335                      | ROW <sup>6</sup> | 8.80                             | 7.20                                    | 7.16                             | 7.0                  | \$961,200                         | \$134,246             | No <sup>8</sup>                  |
| 20            | 1,335                      | ROW <sup>6</sup> | 8.80                             | 7.20                                    | 7.16                             | 7.2                  | \$1,068,000                       | \$149,162             | No <sup>8</sup>                  |
| 22            | 1,432                      | ROW <sup>6</sup> | 8.80                             | 8.80                                    | 8.80                             | 6.0                  | \$1,260,160                       | \$143,200             | No <sup>8</sup>                  |

<sup>1</sup> Full height is for the length indicated.

<sup>2</sup> ERs (Equivalent Residences) include NAC B and NAC C receptors with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Impacted NAC B and NAC C receptors that receive at least 5 dB(A) reduction from proposed noise barrier.

<sup>4</sup> All NAC B and NAC C receptors that receive at least 5 dB(A) reduction from proposed noise barrier.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ROW – Right of Way noise barrier constructed on US 17/92.

<sup>7</sup> Noise barrier system did not meet the noise reduction design goal of 7 dB(A) at any receptor.

<sup>8</sup> Barrier cannot meet FDOT's allowable cost threshold of \$64,000 per ER.

The evaluated noise barrier configurations without the addition of rail noise could provide a 7 dB(A) reduction at one or more receptors and a 5 dB(A) reduction at two or more impacted receptors. However, the noise barrier system exceeds the allowable \$64,000 per benefited receptor under this scenario. For this reason, noise barriers are not a feasible and reasonable option for providing noise abatement for CNE SB01.

### 3.7.2. Horse Creek Village, and Shady Oaks MH Park (SB02)

Horse Creek Village and the Shady Oaks Mobile Home Park are located on the southbound side of US 17/92 between Bargain Barn Road and Lem Carnes Road(CNE SB02). This area is shown on sheets 1 through 3 in the project aerials located in **Appendix E**. The overall noise environment for this CNE includes noise from the adjacent CSX railroad. The contributing rail noise was added to the TNM noise predictions using the methodology discussed in **Section 3.6** and is summarized in **Appendix C**.

In this area, 47 NAC B receptor points were added to the model to represent 59 residences. Also in CNE SB02 are the Horse Creek Village community pool and a basketball court, both NAC C receptors. Noise levels at 27 residences and both NAC C receptors are expected to approach or exceed the 66 dB(A) NAC for the Build condition in the design year (2050). Noise levels are expected to increase up to 9.2 dB(A);

therefore, no receptor experiences a substantial increase ( $\geq 15$  dB(A)) in traffic noise when compared to the existing condition. The predicted residential noise levels are shown in **Appendix B-1**, and the SLU receptor noise levels are shown in **Appendix B-2**.

A noise barrier system was evaluated to abate traffic-related noise for the 27 impacted residences and the Horse Creek Village pool and basketball court. The barrier system, evaluated behind the southbound sidewalk, requires gaps for driveway access to US 17/92. Person-hours of use for the NAC C receptors were calculated following the FDOT SLU special use abatement procedure outlined in **Section 3.5**. The pool and basketball courts were estimated to have a maximum of 127 users per day, visiting for one hour/visitor. This conservative estimate equates to 46,228 annual person-hours and an ER value of 2.09. Refer to **Appendix E** for the SLU Equivalent Residence (ER) Barrier Evaluation, presenting the Benefited ER calculations for the four SLU receptors, which is a component of the overall abatement evaluation discussed below.

For the noise abatement evaluation, two scenarios were assessed to determine the scenario that is most beneficial to the impacted receptors. The first scenario reflects the noise barrier system's effectiveness with the influence of rail noise. Including both residential and SLU impacts, the total number of impacted ERs for this scenario is 29.09. The evaluated noise barrier configurations with the addition of rail noise could provide a 7 dB(A) reduction at one or more receptors and a 5 dB(A) reduction at two or more impacted receptors, as shown in **Table 3-13**. However, the noise barrier system exceeds the allowable \$64,000 per benefited receptor under this scenario.

**Table 3-13: Horse Creek Village and Shady Oaks MH Park - With Rail Influence (CNE SB02)**

| Height (feet) | Length <sup>1</sup> (feet) | Location         | No. of Impacted ERs <sup>2</sup> | Impacted and Benefited ERs <sup>3</sup> | Total Benefited ERs <sup>4</sup> | Avg. Reduction dB(A) | Max Reduction dB(A) | Total Estimated Cost <sup>5</sup> | Cost per Benefited ER | Barrier Feasible and Reasonable? |
|---------------|----------------------------|------------------|----------------------------------|-----------------------------------------|----------------------------------|----------------------|---------------------|-----------------------------------|-----------------------|----------------------------------|
| 8             | 2,026                      | ROW <sup>6</sup> | 29.09                            | 2.00                                    | 2.00                             | 6.8                  | 8.1                 | \$648,320                         | \$324,160             | No <sup>7</sup>                  |
| 10            | 1,373                      | ROW <sup>6</sup> | 29.09                            | 2.00                                    | 2.00                             | 6.8                  | 8.1                 | \$549,200                         | \$274,600             | No <sup>7</sup>                  |
| 12            | 1,424                      | ROW <sup>6</sup> | 29.09                            | 10.00                                   | 10.04                            | 6.4                  | 9.2                 | \$683,520                         | \$68,080              | No <sup>7</sup>                  |
| 14            | 1,764                      | ROW <sup>6</sup> | 29.09                            | 12.00                                   | 12.04                            | 7.0                  | 10.0                | \$987,840                         | \$82,047              | No <sup>7</sup>                  |
| 16            | 2,026                      | ROW <sup>6</sup> | 29.09                            | 17.00                                   | 17.04                            | 7.1                  | 10.5                | \$1,296,640                       | \$76,094              | No <sup>7</sup>                  |
| 18            | 1,961                      | ROW <sup>6</sup> | 29.09                            | 21.00                                   | 22.04                            | 7.4                  | 11.2                | \$1,411,920                       | \$64,062              | No <sup>7</sup>                  |
| 20            | 1,918                      | ROW <sup>6</sup> | 29.09                            | 22.00                                   | 23.04                            | 7.2                  | 11.9                | \$1,534,400                       | \$66,597              | No <sup>7</sup>                  |
| 22            | 1,864                      | ROW <sup>6</sup> | 29.09                            | 22.00                                   | 25.04                            | 7.4                  | 12.5                | \$1,640,320                       | \$65,508              | No <sup>7</sup>                  |

<sup>1</sup> Full height is for the length indicated.

<sup>2</sup> ERs (Equivalent Residences) include NAC B and NAC C receptors with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Impacted NAC B and NAC C receptors that receive at least 5 dB(A) reduction from proposed noise barrier.

<sup>4</sup> All NAC B and NAC C receptors that receive at least 5 dB(A) reduction from proposed noise barrier.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ROW – Right of Way noise barrier constructed on US 17/92.

<sup>7</sup> Barrier cannot meet FDOT's allowable cost threshold of \$64,000 per ER.

The second scenario, summarized in **Table 3-14**, reflects the effectiveness of the noise barrier system without the influence of rail noise. Without the rail noise, there are five fewer impacted residential receptors. Including both residential and SLU impacts, the total number of impacted ERs for this scenario is 24.09. However, under this scenario, a potential noise barrier system could provide a 7 dB(A) reduction at one or more receptors and a 5 dB(A) reduction at two or more impacted receptors. This

noise barrier will not exceed the allowable \$64,000 per benefited receptor and, therefore, is a cost reasonable method to abate traffic-related noise impacts for the residences in CNE SB02.

The noise barrier system analyzed in CNE SB02 is the maximum height and length that was determined to be constructible. However, these potential dimensions are based on PD&E phase concepts. Future refinements in the project design phase and known constraints such as utilities, drainage, etc., could alter the barrier's placement, dimensions, and access. Such changes could render this noise barrier no longer constructible or not meet FDOT noise abatement criteria. Assuming the barrier is still feasible and reasonable in the design phase, community input may be solicited to confirm support.

**Table 3-14: Horse Creek Village and Shady Oaks MH Park - Without Rail Influence (CNE SB02)**

| Height (feet) | Length <sup>1</sup> (feet) | Location         | No. of Impacted ERs <sup>2</sup> | Impacted and Benefited ERs <sup>3</sup> | Total Benefited ERs <sup>4</sup> | Avg. Reduction dB(A) | Max Reduction dB(A) | Total Estimated Cost <sup>5</sup> | Cost per Benefited ER | Barrier Feasible and Reasonable? |
|---------------|----------------------------|------------------|----------------------------------|-----------------------------------------|----------------------------------|----------------------|---------------------|-----------------------------------|-----------------------|----------------------------------|
| 8             | 2,026                      | ROW <sup>6</sup> | 24.09                            | 6.00                                    | 6.04                             | 5.9                  | 8.5                 | \$648,320                         | \$107,338             | No <sup>7</sup>                  |
| 10            | 1,373                      | ROW <sup>6</sup> | 24.09                            | 6.00                                    | 6.04                             | 5.9                  | 8.5                 | \$549,200                         | \$90,927              | No <sup>7</sup>                  |
| 12            | 1,424                      | ROW <sup>6</sup> | 24.09                            | 11.00                                   | 11.04                            | 6.6                  | 9.7                 | \$683,520                         | \$61,913              | Yes                              |
| 14            | 1,764                      | ROW <sup>6</sup> | 24.09                            | 22.00                                   | 25.04                            | 6.7                  | 10.6                | \$987,840                         | \$39,450              | Yes                              |
| 16            | 2,026                      | ROW <sup>6</sup> | 24.09                            | 23.00                                   | 39.04                            | 6.7                  | 11.5                | \$1,296,640                       | \$33,213              | Yes                              |
| 18            | 1,961                      | ROW <sup>6</sup> | 24.09                            | 23.00                                   | 52.04                            | 6.7                  | 12.5                | \$1,411,920                       | \$27,131              | Yes                              |
| 20            | 2,004                      | ROW <sup>6</sup> | 24.09                            | 23.00                                   | 58.04                            | 6.8                  | 13.5                | \$1,603,200                       | \$27,622              | Yes                              |
| 22            | 1,864                      | ROW <sup>6</sup> | 24.09                            | 23.00                                   | 58.04                            | 7.0                  | 14.2                | \$1,640,320                       | \$28,262              | Yes                              |

<sup>1</sup> Full height is for the length indicated.

<sup>2</sup> ERs (Equivalent Residences) include NAC B and NAC C receptors with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Impacted NAC B and NAC C receptors that receive at least 5 dB(A) reduction from proposed noise barrier.

<sup>4</sup> All NAC B and NAC C receptors that receive at least 5 dB(A) reduction from proposed noise barrier.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ROW – Right of Way noise barrier constructed on US 17/92.

<sup>7</sup> Barrier cannot meet FDOT's allowable cost threshold of \$64,000 per ER.

### 3.7.3. No Noise Sensitive Sites (SB03)

There are no noise sensitive sites located on the southbound side of US 17/92 between Lem Carnes Road and Ernie Caldwell Boulevard (CNE SB03). This area is shown on sheets 4 and 5 in the project aerials located in **Appendix E**.

### 3.7.4. Preservation Pointe and Williams Preserve (SB04)

Two subdivisions, Preservation Pointe and Williams Preserve, are located on the southbound side of the CPP East new alignment between Ernie Caldwell Boulevard and south of Providence Boulevard (CNE SB04). This area is shown on sheets 6 through 9, in the project aerials located in **Appendix E**. In this area, 24 NAC B receptor points representing 24 residences were added to the model. Preservation Pointe is currently under construction. All residential parcels with an active building permit as of August 6, 2025, were included in the analysis. A land use review will be performed during the design phase to identify if this development received residential building permits subsequent to the noise study but prior to the project's Date of Public Knowledge (DPK). All homes that receive a building permit prior to the DPK will be included in the design analysis.

Each of these analyzed receptors is located in areas where traffic noise is not the predominant noise source. For these residences, the average ambient noise measurement of 45.8 dB(A) was applied to



represent the existing noise condition instead of the TNM-predicted noise level. Refer to **Section 3.2** for more information on the field-measured ambient noise levels.

Additionally, the overall noise environment for this CNE includes noise from the adjacent CSX railroad. The contributing rail noise was added to the TNM noise predictions using the methodology discussed in **Section 3.6** and is summarized in **Appendix C**.

Noise levels at all but one residence are expected to approach or exceed the 66 dB(A) NAC for the Build condition in the design year (2050). Noise levels are expected to increase up to 1.7 dB(A); therefore, no receptor experiences a substantial increase ( $\geq 15$  dB(A)) in traffic noise when compared to the existing condition. The predicted residential noise levels are shown in **Appendix B-1**.

A noise barrier system was evaluated for 23 impacted residential sites to abate traffic-related noise. For the noise abatement evaluation, two scenarios were assessed to determine the scenario that is most beneficial to the impacted receptors. The first scenario, summarized in **Table 3-15**, reflects the effectiveness of the noise barrier system with the influence of rail noise. The evaluated noise barrier configurations with this scenario cannot provide a 5 dB(A) reduction at two or more impacted receptors.

**Table 3-15: Single-Family Residences - With Rail Influence (CNE SB04)**

| Height<br>(feet) | Length <sup>1</sup><br>(feet) | Location           | No. of<br>NAC B<br>Impacts | Noise Reduction at<br>Impacted Residences |                |                     | Number of Benefited Residences |                              |       |                            | Impacted<br>Res. Not<br>Benefited <sup>4</sup> | Total<br>Estimated<br>Cost <sup>5</sup> | Cost per<br>Benefited<br>Residence |
|------------------|-------------------------------|--------------------|----------------------------|-------------------------------------------|----------------|---------------------|--------------------------------|------------------------------|-------|----------------------------|------------------------------------------------|-----------------------------------------|------------------------------------|
|                  |                               |                    |                            | 5-5.9<br>dB(A)                            | 6-6.9<br>dB(A) | $\geq 7.0$<br>dB(A) | Impacted <sup>2</sup>          | Not<br>Impacted <sup>3</sup> | Total | Avg.<br>Reduction<br>dB(A) |                                                |                                         |                                    |
| 8                | 172                           | ST <sup>6</sup>    | 23                         | 0                                         | 0              | 0                   | 0                              | 0                            | 0     | <5.0                       | 23                                             | N/A <sup>8</sup>                        | N/A <sup>8</sup>                   |
| 14               | 2,498                         | SHLDR <sup>7</sup> |                            | 0                                         | 0              | 0                   | 0                              | 0                            | 0     | <5.0                       | 23                                             | N/A <sup>8</sup>                        | N/A <sup>8</sup>                   |
| 14               | 2,033                         | SHLDR <sup>7</sup> | 23                         | 0                                         | 0              | 0                   | 0                              | 0                            | 0     | <5.0                       | 23                                             | N/A <sup>8</sup>                        | N/A <sup>8</sup>                   |
| 13               | 2,498                         | SHLDR <sup>7</sup> | 23                         | 0                                         | 0              | 0                   | 0                              | 0                            | 0     | <5.0                       | 23                                             | N/A <sup>8</sup>                        | N/A <sup>8</sup>                   |

<sup>1</sup> Full height is for the length indicated. If a shoulder noise barrier location is indicated, the length of vertical height tapers at the shoulder barrier's terminus (See FDOT Standard Plans) would be in addition to the length indicated.

<sup>2</sup> Benefited residences with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Benefited residences with predicted noise levels that do not approach the NAC.

<sup>4</sup> Impacted residences that do not receive a minimum 5 dB(A) reduction from analyzed noise barrier system.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ST – Noise barrier system located on CPP East bridge structure and/or mechanically stabilized earth (MSE).

<sup>7</sup> SHLDR – Noise barrier system located on CPP East outside shoulder.

<sup>8</sup> Noise barrier system did not benefit a minimum requirement of two impacted residences, so no further analysis was conducted.

The second scenario, summarized in **Table 3-16**, reflects the effectiveness of the noise barrier system without the influence of rail noise. Without the rail noise, there are only six impacted receptors as compared to 23 impacts with the addition of rail noise. These six impacts are all from substantial noise increases. The evaluated noise barrier configurations without the rail influence could provide a 7 dB(A) reduction at one or more receptors and a 5 dB(A) reduction at two or more impacted receptors. However, the noise barrier system exceeds the allowable \$64,000 per benefited receptor. For this reason, noise barriers are not a feasible and reasonable option for providing noise abatement to the impacted residential sites in CNE SB04.

**Table 3-16: Single-Family Residences – Without Rail Influence (CNE SB04)**

| Height<br>(feet) | Length <sup>1</sup><br>(feet) | Location           | No. of<br>NAC B<br>Impacts | Noise Reduction at<br>Impacted Residences |                |                | Number of Benefited Residences |                              |       |                            | Impacted<br>Res. Not<br>Benefited <sup>4</sup> | Total<br>Estimated<br>Cost <sup>5</sup> | Cost per<br>Benefited<br>Residence |
|------------------|-------------------------------|--------------------|----------------------------|-------------------------------------------|----------------|----------------|--------------------------------|------------------------------|-------|----------------------------|------------------------------------------------|-----------------------------------------|------------------------------------|
|                  |                               |                    |                            | 5-5.9<br>dB(A)                            | 6-6.9<br>dB(A) | ≥ 7.0<br>dB(A) | Impacted <sup>2</sup>          | Not<br>Impacted <sup>3</sup> | Total | Avg.<br>Reduction<br>dB(A) |                                                |                                         |                                    |
| 8                | 172                           | ST <sup>6</sup>    | 6                          | 0                                         | 4              | 2              | 6                              | 6                            | 12    | 6.1                        | 0                                              | \$1,453,920                             | \$121,160                          |
| 14               | 2,498                         | SHLDR <sup>7</sup> |                            | 2                                         | 3              | 1              | 6                              | 6                            | 12    | 5.9                        | 0                                              | \$1,138,480                             | \$94,873                           |
| 14               | 2,033                         | SHLDR <sup>7</sup> | 6                          | 2                                         | 3              | 1              | 6                              | 6                            | 12    | 5.9                        | 0                                              | \$1,138,480                             | \$94,873                           |
| 13               | 2,498                         | SHLDR <sup>7</sup> | 6                          | 4                                         | 2              | 0              | 6                              | 6                            | 12    | 5.7                        | 0                                              | N/A <sup>8</sup>                        | N/A <sup>8</sup>                   |

<sup>1</sup> Full height is for the length indicated. If a shoulder noise barrier location is indicated, the length of vertical height tapers at the shoulder barrier's terminus (See FDOT Standard Plans) would be in addition to the length indicated.

<sup>2</sup> Benefited residences with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Benefited residences with predicted noise levels that do not approach the NAC.

<sup>4</sup> Impacted residences that do not receive a minimum 5 dB(A) reduction from analyzed noise barrier system.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ST – Noise barrier system located on CPP East bridge structure and/or mechanically stabilized earth (MSE).

<sup>7</sup> SHLDR – Noise barrier system located on CPP East outside shoulder.

<sup>8</sup> Noise barrier system did not meet the noise reduction design goal of 7 dB(A) at any receptor, so no further analysis was conducted.

### 3.7.5. Aviana (SB05) and Pointe Grand Apartments (SB06)

The Aviana neighborhood (CNE SB05) and the Pointe Grand apartment complex (CNE SB06) are located on the southbound side of the CPP East from south of Providence Boulevard to Ronald Reagan Parkway. These areas are shown on sheets 9 through 11 in the project aerials, located in **Appendix E**. A planned residential community called Townhomes at Vista Village has been identified in CNE SB05 adjacent to US 17/92. As of August 6, 2025, there were no active building permits for noise-sensitive land uses. A land use review will be performed during the design phase to identify if this development received residential building permits subsequent to the noise study but prior to the project's Date of Public Knowledge (DPK). All homes that receive a building permit prior to the DPK will be included in the design analysis.

In the Aviana neighborhood, 48 NAC B receptor points were added to the model to represent 58 residences. Eleven of these 58 residences are expected to approach or exceed the 66 dB(A) NAC for the Build condition in the design year (2050). Noise levels are expected to increase up to 13.6 dB(A); therefore, no receptor experiences a substantial increase (≥15 dB(A)) in traffic noise when compared to the existing condition.

In the 3-story Pointe Grand Apartments, 24 NAC B receptor points were added to the model to represent 60 apartment units with balconies or lanais. Forty of these 60 units are expected to approach or exceed the 66 dB(A) NAC for the Build condition in the design year (2050). Noise levels are expected to increase up to 6.4 dB(A); therefore, no receptor experiences a substantial increase (≥15 dB(A)) in traffic noise when compared to the existing condition. The predicted residential noise levels for both CNEs are shown in **Appendix B-1**.

Noise barriers were evaluated for the 51 total impacted receptors to abate traffic-related noise in CNE SB05 and CNE SB06. A noise barrier system consisting of a segment within the southbound CPP East ROW and a segment on the southbound outside shoulder of the CPP East did not benefit a minimum of two impacted receptors. Consequently, a noise barrier system located within the FDOT US 17/92 southbound ROW, incorporating two access openings, was evaluated as an abatement measure.

Based on this evaluation, a potential noise barrier system located inside the FDOT US 17/92 southbound ROW could provide a 7 dB(A) reduction at one or more receptors and a 5 dB(A) reduction at two or more impacted receptors. This noise barrier will not exceed the allowable \$64,000 per benefited receptor and, therefore, noise barriers are a cost reasonable method to abate traffic-related noise impacts for the residences in CNEs SB05 and SB06. **Table 3-17** summarizes the barrier configurations evaluated for these two areas.

**Table 3-17: Aviana (CNE SB05) and Pointe Grand Apartments (CNE SB06)**

| Height<br>(feet) | Length <sup>1</sup><br>(feet) | Location           | No. of<br>NAC B<br>Impacts | Noise Reduction at<br>Impacted Residences |                |                | Number of Benefited Residences |                              |       |                            | Impacted<br>Res. Not<br>Benefited <sup>4</sup> | Total<br>Estimated<br>Cost <sup>5</sup> | Cost per<br>Benefited<br>Residence |
|------------------|-------------------------------|--------------------|----------------------------|-------------------------------------------|----------------|----------------|--------------------------------|------------------------------|-------|----------------------------|------------------------------------------------|-----------------------------------------|------------------------------------|
|                  |                               |                    |                            | 5-5.9<br>dB(A)                            | 6-6.9<br>dB(A) | ≥ 7.0<br>dB(A) | Impacted <sup>2</sup>          | Not<br>Impacted <sup>3</sup> | Total | Avg.<br>Reduction<br>dB(A) |                                                |                                         |                                    |
| 8                | 5,051                         | ST <sup>7</sup>    | 51                         | 0                                         | 0              | 0              | 0                              | 15                           | 15    | 5.6                        | 51                                             | N/A <sup>10</sup>                       | N/A <sup>10</sup>                  |
| 14               | 3,079                         | SHLDR <sup>8</sup> |                            |                                           |                |                |                                |                              |       |                            |                                                |                                         |                                    |
| 22               | 4,834                         | ROW <sup>6</sup>   |                            |                                           |                |                |                                |                              |       |                            |                                                |                                         |                                    |
| 14               | 2,258                         | ROW <sup>9</sup>   | 51                         | 12                                        | 8              | 0              | 20                             | 0                            | 20    | 5.7                        | 31                                             | N/A <sup>11</sup>                       | N/A <sup>11</sup>                  |
| 16               | 2,258                         | ROW <sup>9</sup>   | 51                         | 18                                        | 0              | 8              | 26                             | 0                            | 26    | 5.9                        | 25                                             | \$1,445,120                             | \$55,582                           |
| 18               | 2,258                         | ROW <sup>9</sup>   | 51                         | 24                                        | 0              | 8              | 32                             | 2                            | 34    | 5.9                        | 19                                             | \$1,625,760                             | \$47,816                           |
| 20               | 2,258                         | ROW <sup>9</sup>   | 51                         | 18                                        | 6              | 8              | 32                             | 2                            | 34    | 6.2                        | 19                                             | \$1,806,400                             | \$53,129                           |
| 22               | 2,258                         | ROW <sup>9</sup>   | 51                         | 6                                         | 6              | 20             | 32                             | 4                            | 36    | 6.2                        | 19                                             | \$1,987,040                             | \$55,196                           |

<sup>1</sup> Full height is for the length indicated. If a shoulder noise barrier location is indicated, the length of vertical height tapers at the shoulder barrier's terminus (See FDOT Standard Plans) would be in addition to the length indicated.

<sup>2</sup> Benefited residences with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Benefited residences with predicted noise levels that do not approach the NAC.

<sup>4</sup> Impacted residences that do not receive a minimum 5 dB(A) reduction from analyzed noise barrier system.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ROW – Noise barrier system located inside the CPP East right of way.

<sup>7</sup> ST – Noise barrier system located on CPP East bridge structure and/or mechanically stabilized earth (MSE).

<sup>8</sup> SHLDR – Noise barrier system located on CPP East outside shoulder.

<sup>9</sup> ROW – Noise barrier system located inside the FDOT US 17/92 right of way.

<sup>10</sup> Noise barrier system did not benefit a minimum requirement of two impacted residences, so no further analysis was conducted.

<sup>11</sup> Noise barrier system did not meet the noise reduction design goal of 7 dB(A), so no further analysis was conducted.

*Note: Potential noise barriers are based on PD&E phase concepts. Future refinements in the project design phase and known constraints such as overhead utilities, drainage, etc., could alter barrier system placement, dimensions, and access. Such changes could render noise barriers no longer constructible or not meet FDOT noise abatement criteria. Assuming barriers are still feasible and reasonable in the design phase, community input may be solicited to confirm support.*

The noise barrier system analyzed in CNE SB05 and SB06 is the maximum height and length that was determined to be constructible. However, these potential dimensions are based on PD&E phase concepts. Future refinements in the project design phase and known constraints such as utilities, drainage, etc., could alter the barrier's placement, dimensions, and access. Such changes could render this noise barrier no longer constructible or not meet FDOT noise abatement criteria. Assuming the barrier is still feasible and reasonable in the design phase, community input may be solicited to confirm support.

### 3.7.6. Multiple Single-Family Residences, Churches, and The Learning Experience Preschool (SB07 and SB08)

Multiple single-family residences are located on the southbound side of the CPP East between Ronald Reagan Parkway and the project's terminus with the Poinciana Connector (SR 538) (CNE SB07). This area is shown on sheets 11 through 14 in the project aerials located in **Appendix E**.

In CNE SB07, three NAC B receptor points were added to the model to represent three residences. Also in this area are two NAC C receptors, The Learning Experience Preschool playground, and the Casa De Israel Yarah Church. One of the three residences and the church is expected to approach or exceed the 66 dB(A) NAC for the Build condition in the design year (2050). Additionally, one residence and the preschool are impacted by a substantial increase ( $\geq 15$  dB(A) over existing conditions) with the maximum predicted increase being 18.2 dB(A). A total of two NAC B and two NAC C receptors in CNE SB07 require abatement consideration.

In CNE SB08, the overall noise environment includes noise from the adjacent CSX railroad. The contributing rail noise was added to the TNM noise predictions using the methodology discussed in **Section 3.6** and is summarized in **Appendix C**. Thirteen NAC B receptor points were added to the model to represent 13 residences. Also in this area are three NAC C receptors, a neighborhood basketball court, the Church of God & Pillar of Zion, and the Antioch Missionary Baptist Church. Seven of the 13 NAC B receptors are expected to approach or exceed the 66 dB(A) NAC for the Build condition in the design year (2050). Noise levels are expected to increase up to 14.7 dB(A); therefore, no receptor experiences a substantial increase ( $\geq 15$  dB(A)) in traffic noise when compared to the existing condition. The predicted residential noise levels for both CNEs are shown in **Appendix B-1**, and the SLU receptor noise levels are shown in **Appendix B-2**.

A noise barrier system was evaluated to abate traffic-related noise for the nine impacted NAC B residential sites in both CNEs and the two NAC C receptors (the preschool and church) in CNE SB07. The barrier system was analyzed with a combination of noise barrier segments within the CPP East ROW, and on the outside shoulder of the southbound CPP East overpasses and MSE walls. Person-hours of use for the NAC C receptors were calculated following the FDOT SLU special use abatement procedure outlined in **Section 3.5**. The Learning Experience Preschool was estimated to have a maximum of 287 users per day, based on an enrollment capacity of 215 and an estimated staff ratio of 1:6. It was assumed that usage of the playground would be for one hour/visitor. This conservative estimate equates to 68,880 annual person-hours and an Equivalent Residence (ER) value of 3.11. The Casa De Israel Yarah Church front entrance was estimated to have a maximum of 100 users per day, visiting for 0.5 hours/visitor. This conservative estimate equates to 18,200 annual person-hours and an ER value of 0.82 per church. The total number of impacted ERs for the SLUs in CNE SB07 is 3.93. Refer to **Appendix E** for the SLU Barrier Evaluation, presenting the Benefited ER calculations for the four SLU receptors, which is a component of the overall abatement evaluation discussed below.

Because there is a rail noise contribution in CNE SB08, two potential noise barrier scenarios were assessed to determine the scenario that is most beneficial to the impacted receptors. The first scenario, summarized in **Table 3-18**, reflects the noise barrier system's effectiveness with the influence of rail noise. The second scenario, summarized in **Table 3-19**, reflects the noise barrier system's effectiveness without the influence of rail noise. Note that when rail noise is not added to CNE SB08, two additional NAC B receptors and the Church of God & Pillar of Zion NAC C receptor, with an ER value of 0.82, are impacted by traffic noise levels.

**Table 3-18: Single-Family Residences - With Rail Influence (CNE SB07 and CNE SB08)**

| Height (feet) | Length <sup>1</sup> (feet) | Location           | No. of Impacted ERs <sup>2</sup> | Impacted and Benefited ERs <sup>3</sup> | Total Benefited ERs <sup>4</sup> | Avg. Reduction dB(A) | Max Reduction dB(A) | Total Estimated Cost <sup>5</sup> | Cost per Benefited ER | Barrier Feasible and Reasonable? |
|---------------|----------------------------|--------------------|----------------------------------|-----------------------------------------|----------------------------------|----------------------|---------------------|-----------------------------------|-----------------------|----------------------------------|
| 8             | 7,536                      | ST <sup>7</sup>    | 12.93                            | 0.00                                    | 0.00                             | 1.9                  | 4.4                 | N/A <sup>9</sup>                  | N/A <sup>9</sup>      | No <sup>9</sup>                  |
| 14            | 1,171                      | SHLDR <sup>8</sup> |                                  |                                         |                                  |                      |                     |                                   |                       |                                  |
| 8             | 7,536                      | ST <sup>7</sup>    | 12.93                            | 1.00                                    | 2.00                             | 7.1                  | 7.6                 | \$6,870,640                       | \$3,435,320           | No <sup>10</sup>                 |
| 14            | 1,171                      | SHLDR <sup>8</sup> |                                  |                                         |                                  |                      |                     |                                   |                       |                                  |
| 22            | 4,322                      | ROW <sup>6</sup>   |                                  |                                         |                                  |                      |                     |                                   |                       |                                  |
| 8             | 3,469                      | ST <sup>7</sup>    | 12.93                            | 1.00                                    | 2.00                             | 7.1                  | 7.6                 | \$2,894,720                       | \$1,447,360           | No <sup>10</sup>                 |
| 22            | 2,028                      | ROW <sup>6</sup>   |                                  |                                         |                                  |                      |                     |                                   |                       |                                  |

<sup>1</sup> Full height is for the length indicated.

<sup>2</sup> ERs (Equivalent Residences) include NAC B and NAC C receptors with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Impacted NAC B and NAC C receptors that receive at least 5 dB(A) reduction from proposed noise barrier.

<sup>4</sup> All NAC B and NAC C receptors that receive at least 5 dB(A) reduction from proposed noise barrier.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ROW – Right of Way noise barrier located inside CPP East right of way.

<sup>7</sup> ST – Noise barrier system located on CPP East bridge structure and/or mechanically stabilized earth (MSE).

<sup>8</sup> SHLDR – Noise barrier system located on CPP East outside shoulder.

<sup>9</sup> Noise barrier system did not benefit a minimum requirement of two impacted residences, so no further analysis was conducted.

<sup>10</sup> Barrier cannot meet FDOT's allowable cost threshold of \$64,000 per ER.

**Table 3-19: Single-Family Residences – Without Rail Influence (CNE SB07 and CNE SB08)**

| Height (feet) | Length <sup>1</sup> (feet) | Location           | No. of Impacted ERs <sup>2</sup> | Impacted and Benefited ERs <sup>3</sup> | Total Benefited ERs <sup>4</sup> | Avg. Reduction dB(A) | Max Reduction dB(A) | Total Estimated Cost <sup>5</sup> | Cost per Benefited ER | Barrier Feasible and Reasonable? |
|---------------|----------------------------|--------------------|----------------------------------|-----------------------------------------|----------------------------------|----------------------|---------------------|-----------------------------------|-----------------------|----------------------------------|
| 8             | 7,536                      | ST <sup>7</sup>    | 15.75                            | 0.00                                    | 0.00                             | 3.0                  | 4.4                 | N/A <sup>9</sup>                  | N/A <sup>9</sup>      | No <sup>9</sup>                  |
| 14            | 1,171                      | SHLDR <sup>8</sup> |                                  |                                         |                                  |                      |                     |                                   |                       |                                  |
| 8             | 7,536                      | ST <sup>7</sup>    | 15.75                            | 4.00                                    | 4.00                             | 6.7                  | 8.4                 | \$6,870,640                       | \$1,717,660           | No <sup>10</sup>                 |
| 14            | 1,171                      | SHLDR <sup>8</sup> |                                  |                                         |                                  |                      |                     |                                   |                       |                                  |
| 22            | 4,322                      | ROW <sup>6</sup>   |                                  |                                         |                                  |                      |                     |                                   |                       |                                  |
| 8             | 3,469                      | ST <sup>7</sup>    | 15.75                            | 4.00                                    | 4.00                             | 5.7                  | 7.1                 | \$2,894,720                       | \$723,680             | No <sup>10</sup>                 |
| 22            | 2,028                      | ROW <sup>6</sup>   |                                  |                                         |                                  |                      |                     |                                   |                       |                                  |

<sup>1</sup> Full height is for the length indicated.

<sup>2</sup> ERs (Equivalent Residences) include NAC B and NAC C receptors with predicted noise levels that approach or exceed the NAC.

<sup>3</sup> Impacted NAC B and NAC C receptors that receive at least 5 dB(A) reduction from proposed noise barrier.

<sup>4</sup> All NAC B and NAC C receptors that receive at least 5 dB(A) reduction from proposed noise barrier.

<sup>5</sup> Unit cost of \$40/ft<sup>2</sup> for all barrier segments.

<sup>6</sup> ROW – Right of Way noise barrier located inside CPP East right of way.

<sup>7</sup> ST – Noise barrier system located on CPP East bridge structure and/or mechanically stabilized earth (MSE).

<sup>8</sup> SHLDR – Noise barrier system located on CPP East outside shoulder.

<sup>9</sup> Noise barrier system did not benefit a minimum requirement of two impacted residences, so no further analysis was conducted.

<sup>10</sup> Barrier cannot meet FDOT's allowable cost threshold of \$64,000 per ER.

Based on the abatement evaluation, neither abatement scenario provides a benefit to the impacted SLU receptors. The potential noise barrier system with rail influence could not attain the required minimum benefit of 5 dB(A) to two impacted residences. While the potential noise barrier system without rail influence does attain the acoustic requirements, it will exceed the allowable \$64,000 per benefited receptor. For these reasons, noise barriers are not a feasible and reasonable option for providing noise abatement for CNE SB07 and CNE SB08.

## 4.0 CONCLUSIONS

Within the project limits, noise levels were predicted at 354 noise receptor locations, representing 481 residences and 16 SLU sites. Of these sites, noise levels at 159 residences and eight SLU sites are predicted to approach or exceed the NAC in the design year (2050) for the Build condition. Additionally, 27 residences and one SLU site are expected to have a substantial noise increase [ $\geq 15$  dB(A)] over existing noise conditions. Nine residences are expected to have both a substantial noise increase and noise levels that approach or exceed the NAC.

The project is expected to impact a total of 195 residences and nine SLU sites (with the Equivalent Residential (ER) value of 15.64), when contributing railroad noise is included. Because a noise barrier must benefit a minimum of two impacted noise sensitive sites for a noise barrier to be feasible, noise abatement was not considered for three isolated receptors.

Twelve noise barriers were evaluated for the remaining 183 impacted residences and the nine impacted SLU sites. The results of the noise barrier evaluation conclude that eight of the evaluated noise barriers do not meet the FDOT noise abatement feasibility and/or reasonableness criteria, as summarized by common noise environment in **Table 4-1**.

The four noise barrier systems found to be a feasible and/or reasonable method to abate traffic-related noise impacts will provide at least a 5 dB(A) benefit to 97 impacted residences in five common noise environments, as shown in **Table 4-2**.



Table 4-1: Evaluated Noise Barriers that are Not Feasible and Reasonable

| Common Noise Environment (CNE) | Number of Impacted Residences & SLU Equivalent Residences (ERs) <sup>1</sup> | Analyzed Noise Barrier System Location | Analyzed Barrier System Height (ft) | Analyzed Barrier System Length (ft) | Number of Receptors & ERs Potentially Benefited by Analyzed Noise Barrier <sup>5</sup> |       | Does Barrier System Meet Minimum Benefit Feasibility Requirement? <sup>6</sup> | Does Barrier System Meet NRDG? <sup>7</sup> | Is Barrier System Cost-Reasonable? <sup>8</sup> | Probable Cause For Not Meeting Feasibility and Reasonableness Criteria                                                                                                                                                                                                                                                               |
|--------------------------------|------------------------------------------------------------------------------|----------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                |                                                                              |                                        |                                     |                                     | Impacted                                                                               | Total |                                                                                |                                             |                                                 |                                                                                                                                                                                                                                                                                                                                      |
| NB01                           | 3                                                                            | ROW <sup>2</sup>                       | 18                                  | 546                                 | 2                                                                                      | 3     | Yes                                                                            | Yes                                         | No                                              | Accommodating multiple cross street access reduces the noise barrier system's ability to benefit more receptors in this low-density area.                                                                                                                                                                                            |
| NB02                           | 16                                                                           | ROW <sup>2</sup>                       | 22                                  | 731                                 | 2                                                                                      | 0     | Yes                                                                            | Yes                                         | No                                              | Accommodating multiple, closely-spaced driveways reduces the noise barrier system's ability to benefit more receptors in this low-density area.                                                                                                                                                                                      |
| NB04                           | 3                                                                            | ROW <sup>2</sup>                       | 14                                  | 434                                 | 3                                                                                      | 3     | Yes                                                                            | Yes                                         | No                                              | Accommodating multiple cross street access reduces the noise barrier system's ability to benefit more receptors in this low-density area.                                                                                                                                                                                            |
| NB06                           | 18                                                                           | ROW <sup>2</sup>                       | 22                                  | 1,387                               | 0                                                                                      | 35    | No                                                                             | N/A <sup>6</sup>                            | N/A <sup>6</sup>                                | Existing pond limits ability to construct a ROW barrier to provide noise reduction to impacted receptors. CPP East is elevated for majority of the CNE which limits potential barrier heights to 8' on structure/MSE wall and 14' on the shoulder.                                                                                   |
|                                |                                                                              | ST <sup>3</sup>                        | 8                                   | 3,866                               |                                                                                        |       |                                                                                |                                             |                                                 |                                                                                                                                                                                                                                                                                                                                      |
|                                |                                                                              | SHLDR <sup>4</sup>                     | 14                                  | 829                                 |                                                                                        |       |                                                                                |                                             |                                                 |                                                                                                                                                                                                                                                                                                                                      |
| NB07                           | 3                                                                            | ST <sup>3</sup>                        | 8                                   | 3,339                               | 0                                                                                      | 0     | No                                                                             | N/A <sup>6</sup>                            | N/A <sup>6</sup>                                | CPP East is elevated through the CNE which limits potential barrier heights to 8' on structure and MSE wall.                                                                                                                                                                                                                         |
| SB01                           | 8.8                                                                          | ROW <sup>2</sup>                       | 14                                  | 822                                 | 7                                                                                      | 7     | Yes                                                                            | Yes                                         | No                                              | Accommodating multiple cross street access reduces the noise barrier system's ability to benefit more receptors in this low-density area.                                                                                                                                                                                            |
| SB04                           | 23                                                                           | SHLDR <sup>3</sup>                     | 14                                  | 2,033                               | 6                                                                                      | 6     | Yes                                                                            | Yes                                         | No                                              | More than half of impacted receptors are located at too great a distance to benefit from any noise barrier configuration. CPP East is elevated approx. 17' higher than the ROW ground in most locations.                                                                                                                             |
| SB07 & SB08                    | 16                                                                           | ST <sup>3</sup>                        | 8                                   | 3,469                               | 4                                                                                      | 4     | Yes                                                                            | Yes                                         | No                                              | Majority of impacted receptors in this low density area are located at too great a distance to benefit from noise barrier. CPP East is elevated approx. 20' higher than ROW ground in most locations, and is predominantly on MSE with several bridges. This limits the possible barrier heights needed to achieve greater benefits. |
|                                |                                                                              | ROW <sup>2</sup>                       | 22                                  | 2,028                               |                                                                                        |       |                                                                                |                                             |                                                 |                                                                                                                                                                                                                                                                                                                                      |

<sup>1</sup> Includes both NAC B and NAC C receptors with predicted noise levels that approach or exceed the NAC.

<sup>2</sup> ROW - Noise barrier located within Florida's Turnpike Enterprise or FDOT right of way.

<sup>3</sup> ST- Noise barrier located on the shoulder of the roadway bridge structure or mechanically-stabilized earth (MSE).

<sup>4</sup> SHLDR - Noise barrier located on the roadway outside shoulder.

<sup>5</sup> Noise reduction of at least 5 dB(A) is required to be considered benefited from the analyzed noise barrier.

<sup>6</sup> Noise barrier system did not benefit a minimum requirement of 5 dB(A) noise reduction for two impacted residences, so no further analysis was conducted.

<sup>7</sup> Noise barrier system did not meet the FDOT Noise Reduction Design Goal (NRDG) of 7 dB(A) at any receptor, so no further analysis was conducted.

<sup>8</sup> Noise barrier exceeds the reasonable cost guideline of \$64,000 per benefited receptor (or benefited equivalent receptor)

#### 4.1. Statement of Likelihood

FTE is committed to the construction of feasible and reasonable noise abatement measures. Four potentially feasible and reasonable noise barrier systems have been identified for this project (see **Table 4-2** for more detail on the noise barriers) contingent upon the following conditions:

- Final recommendations on the construction of abatement measures are determined during the project's final design and through the public involvement process;
- Detailed noise analyses during the final design process support the need, feasibility, and reasonableness of providing abatement;
- Cost analysis indicates that the cost of the noise barrier(s) will not exceed the cost reasonable criterion;
- Community input supporting types, heights, and locations of the noise barrier(s) is provided to FTE; and
- Safety and engineering aspects have been reviewed, and any conflicts or issues resolved.

During the design phase, a land use review will be performed to identify all noise sensitive sites that may have received a building permit subsequent to the noise study but prior to the project's Date of Public Knowledge (DPK). The date that the State Environmental Impact Report (SEIR) is approved by FTE will be the DPK. If the review identifies noise sensitive sites that have been permitted prior to the DPK, then those sensitive sites will be evaluated during the design phase for traffic noise impacts and abatement considerations.

Table 4-2: Potentially Feasible and Reasonable Noise Barrier Evaluation Summary

| Common Noise Environment (CNE)                              | Number of Impacted Residences & SLU Equivalent Residences (ERs) <sup>1</sup> | Noise Barrier Approx. Begin Station | Noise Barrier Approx. End Station | Preliminary Noise Barrier Height (ft) | Preliminary Noise Barrier Length (ft) <sup>2</sup> | Preliminary Noise Barrier Location | Preliminary Noise Barrier Cost <sup>3</sup> | Number of Residences & ERs Potentially Benefited by a Noise Barrier <sup>4</sup> |       | Cost Per Benefited Residence |
|-------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------|-----------------------------------|---------------------------------------|----------------------------------------------------|------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------|-------|------------------------------|
|                                                             |                                                                              |                                     |                                   |                                       |                                                    |                                    |                                             | Impacted                                                                         | Total |                              |
| NOISE BARRIERS NORTHBOUND SIDE OF US 17/92                  |                                                                              |                                     |                                   |                                       |                                                    |                                    |                                             |                                                                                  |       |                              |
| NB03<br><i>Kissimmee MH &amp; RV Resort</i>                 | 19                                                                           | 85+20                               | 101+00                            | 22                                    | 1,580                                              | ROW <sup>5</sup>                   | \$1,390,400                                 | 19                                                                               | 43    | \$32,335                     |
| NOISE BARRIERS SOUTHBOUND SIDE OF US 17/92                  |                                                                              |                                     |                                   |                                       |                                                    |                                    |                                             |                                                                                  |       |                              |
| SB02<br><i>Horse Creek Village &amp; Shady Oaks</i>         | 24.09 <sup>8</sup>                                                           | 1048+15                             | 1053+80                           | 22                                    | 547                                                | ROW <sup>5</sup>                   | \$1,640,320                                 | 23.00                                                                            | 58.04 | \$28,262                     |
|                                                             |                                                                              | 1054+10                             | 1057+00                           | 22                                    | 301                                                | ROW <sup>5</sup>                   |                                             |                                                                                  |       |                              |
|                                                             |                                                                              | 1057+65                             | 1060+50                           | 22                                    | 283                                                | ROW <sup>5</sup>                   |                                             |                                                                                  |       |                              |
|                                                             |                                                                              | 1060+80                             | 1062+10                           | 22                                    | 127                                                | ROW <sup>5</sup>                   |                                             |                                                                                  |       |                              |
|                                                             |                                                                              | 1062+40                             | 1064+15                           | 22                                    | 172                                                | ROW <sup>5</sup>                   |                                             |                                                                                  |       |                              |
|                                                             |                                                                              | 1064+40                             | 1067+20                           | 22                                    | 278                                                | ROW <sup>5</sup>                   |                                             |                                                                                  |       |                              |
|                                                             |                                                                              | 1067+40                             | 1069+00                           | 22                                    | 156                                                | ROW <sup>5</sup>                   |                                             |                                                                                  |       |                              |
| SB05 <i>Aviana</i><br>SB06 <i>Pointe Grand Apts</i>         | 51                                                                           | N/A                                 | N/A                               | 22                                    | 574                                                | ROW <sup>5</sup>                   | \$1,987,040                                 | 32                                                                               | 36    | \$55,196                     |
|                                                             |                                                                              | N/A                                 | N/A                               | 22                                    | 1,124                                              | ROW <sup>5</sup>                   |                                             |                                                                                  |       |                              |
|                                                             |                                                                              | N/A                                 | N/A                               | 22                                    | 560                                                | ROW <sup>5</sup>                   |                                             |                                                                                  |       |                              |
| NOISE BARRIERS NORTHBOUND SIDE OF CENTRAL POLK PARKWAY EAST |                                                                              |                                     |                                   |                                       |                                                    |                                    |                                             |                                                                                  |       |                              |
| NB05<br><i>Providence</i>                                   | 19                                                                           | 1283+00                             | 1286+00                           | 8                                     | 306                                                | ST <sup>6</sup>                    | \$1,505,760                                 | 19                                                                               | 37    | \$40,696                     |
|                                                             |                                                                              | 1286+00                             | 1311+00                           | 14                                    | 2,514                                              | SHLDR <sup>7</sup>                 |                                             |                                                                                  |       |                              |

1 Includes both NAC B and NAC C receptors with predicted noise levels that approach or exceed the NAC.

2 Full height is for length indicated. The length for any required taper in height at a shoulder noise barrier termination would be in addition to the length indicated. (See FDOT Standard Plans)

3 Unit cost of \$40 per square foot for all barrier segments.

4 Total includes impacted/benefited residences with a predicted noise level that does not approach or exceed 67 dB(A) but are incidentally benefited.

5 ROW -Noise barrier system located within Florida's Turnpike Enterprise or FDOT right of way.

6 ST – Noise barrier system located on CPP East bridge structure or mechanically-stabilized earth (MSE).

7 SHLDR – Noise barrier located on CPP East outside shoulder. Any required tapers in height at a shoulder noise barrier termination would be in addition to the length indicated. (See FDOT Standard Plans)

8 Number of impacts differs from that shown in Appendix B-1. Noise abatement evaluation scenario without the addition of rail noise selected as most beneficial to receptors. Refer to Section 3.8.2 for further explanation.

*Note: Potential noise barriers are based on PD&E phase concepts. Future refinements in the project design phase and known constraints such as overhead utilities, drainage, etc., could alter barrier system placement, dimensions, and access. Such changes could render noise barriers no longer constructible or not meet FDOT noise abatement criteria. Assuming barriers are still feasible and reasonable in the design phase, community input may be solicited to confirm support.*

## 5.0 CONSTRUCTION NOISE AND VIBRATION

During the construction phase of the proposed project, short-term noise may be generated by stationary and mobile construction equipment. The construction noise will be temporary at any location and will be controlled by adherence to the most recent edition of FDOT's *Standard Specifications for Road and Bridge Construction* <sup>8</sup>.

Using the listing of sensitive sites found in FDOT's *Project Development and Environment Manual* <sup>3</sup>, residences were identified as the only land use potentially sensitive to vibration that could occur during construction. If, during final design, it is determined that measures to control vibration are necessary, the project's construction provisions can be modified as needed.

## 6.0 PUBLIC COORDINATION

To promote compatibility between land development planning and the project roadways, the distance between the edge of the roadway outside travel lane and the point where the roadway-related noise is predicted to reach the NAC for each activity category was estimated. These estimates are referred to as noise contours and are shown in **Appendix D**. These estimates provide the general distance at which the noise approaches or exceeds the NAC for each activity type.

Coordination with the public and local agencies and officials has been accomplished during the development of the project. In addition, local and community officials have had the opportunity to comment on the proposed project at the public meetings.

This section will be updated when all public involvement efforts have been concluded.

## 7.0 REFERENCES

1. 23 CFR Part 772, Procedures for Abatement of Highway Traffic Noise and Construction Noise; Federal Register, Vol. 75, No. 133, July 13, 2010.
2. *Project Development and Environment Manual*; Florida Department of Transportation; Tallahassee, Florida; July 31, 2024.
3. *Traffic Noise Modeling and Analysis Practitioners' Handbook*; Florida Department of Transportation; Tallahassee, Florida; September 2025.
4. *Methodology to Evaluate Highway Traffic Noise at Special Land Uses*; Florida Department of Transportation; Tallahassee, Florida; December 2024.
5. *Guidance on Assessing Noise and Vibration Impacts*; Federal Railroad Administration; Washington, DC; February 27, 2020.
6. *Transit Noise and Vibration Impact Assessment*; Federal Transit Administration's (FTA)
7. *Noise Measurement Field Guide*; Federal Highway Administration; Washington, DC; June 2018.
8. *Standard Specifications for Road and Bridge Construction*; Florida Department of Transportation; Tallahassee, Florida; 2022.

# **Appendix A**

## **Noise Analysis Traffic Data**

| Project/<br>Data Information | Highway Traffic Noise: Traffic Data              |                                                            |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                                        |                                                        |
|------------------------------|--------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|--------------|---------------------------------------------------|--------------------|---------------------------------------|---------------------|-------------------------------------------------------------|---------|-----------------|----------------|---------|---------------|-------------------|----------|--------------------|---------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------|
|                              | Project Name                                     | Central Polk Pkwy (CPP) East- from 17/92 to SR 538         |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                                        |                                                        |
|                              | Project Number                                   | 451419-1                                                   |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                                        |                                                        |
|                              | Condition                                        | Existing                                                   |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                                        |                                                        |
|                              | Year                                             | 2024                                                       |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                                        |                                                        |
|                              | Source                                           | Travel Demand Model                                        |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                                        |                                                        |
|                              | Preparer [Traffic Engineer]                      | Amin Mohammadnazar                                         |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                                        |                                                        |
|                              | Prepared Date                                    | 8/22/2025                                                  |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                                        |                                                        |
|                              | Notes                                            |                                                            |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                                        |                                                        |
| Roadway Details              |                                                  |                                                            |                                                            |              | Traffic Details                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    | Raw Traffic Data Selection & Off-Peak Calculation |                                                                        |                                                        |
| Traffic Segment Number       | Roadway Name                                     | From                                                       | To                                                         | Roadway Type | Number of Lanes<br><small>*In 1 direction</small> | Two-Way LOS C AADT | LOS C Peak Hour Peak Direction (PHPD) | Demand Two-Way AADT | Demand Hourly Volumes (DHV) Peak Hour Peak Direction (PHPD) | % Autos | % Medium Trucks | % Heavy Trucks | % Buses | % Motorcycles | Standard K-factor | D-factor | Posted Speed (mph) | LOS C vs. DHV Comparison                          | Peak Direction Volume*<br><small>*Used on both sides for LOS C</small> | Off-Peak Direction Volume*<br><small>*DHV only</small> |
| 1                            | US 17/92 (TNM SEG. 1)                            | South of James Street                                      | Bargain Barn Rd (Sta. 1043)                                | Arterial     | 1                                                 | 9,300              | 490                                   | 15,800              | 850                                                         | 94.85%  | 1.61%           | 3.09%          | 0.16%   | 0.29%         | 9.0%              | 59%      | 45                 | LOS C                                             | 490                                                                    | N/A                                                    |
| 2                            | US 17/92 (TNM SEG. 1)                            | Bargain Barn Rd (Sta. 1043)                                | Tiny Flower Rd (Sta. 1060)                                 | Arterial     | 1                                                 | 9,300              | 490                                   | 16,200              | 860                                                         | 94.85%  | 1.61%           | 3.09%          | 0.16%   | 0.29%         | 9.0%              | 59%      | 45                 | LOS C                                             | 490                                                                    | N/A                                                    |
| 3                            | US 17/92 (TNM SEG. 1)                            | Tiny Flower Rd (Sta. 1060)                                 | Lem Carnes Rd (Sta. 1107+60)                               | Arterial     | 1                                                 | 9,300              | 490                                   | 17,400              | 960                                                         | 94.85%  | 1.61%           | 3.09%          | 0.16%   | 0.29%         | 9.0%              | 61%      | 50                 | LOS C                                             | 490                                                                    | N/A                                                    |
| 4                            | US 17/92 (TNM SEG.2)                             | Lem Carnes Rd (Sta. 1107+60)                               | Ernie Caldwell Blvd (Sta. 60+40)                           | Arterial     | 1                                                 | 9,300              | 490                                   | 17,800              | 980                                                         | 94.85%  | 1.61%           | 3.09%          | 0.16%   | 0.29%         | 9.0%              | 61%      | 55                 | LOS C                                             | 490                                                                    | N/A                                                    |
| 5                            | US 17/92 (TNM SEG.2)                             | Ernie Caldwell Blvd (Sta. 60+40)                           | Garman Ave (Sta. 101+20)                                   | Arterial     | 1                                                 | 9,300              | 490                                   | 16,800              | 770                                                         | 94.85%  | 1.61%           | 3.09%          | 0.16%   | 0.29%         | 9.0%              | 51%      | 55                 | LOS C                                             | 490                                                                    | N/A                                                    |
| 6                            | US 17/92 (TNM SEG.3)                             | Garman Ave (Sta. 101+20)                                   | Orange Cosmos Blvd (Sta. 126+40)                           | Arterial     | 1                                                 | 9,300              | 490                                   | 16,800              | 770                                                         | 94.85%  | 1.61%           | 3.09%          | 0.16%   | 0.29%         | 9.0%              | 51%      | 55                 | LOS C                                             | 490                                                                    | N/A                                                    |
| 7                            | US 17/92 Did not use                             | Orange Cosmos Blvd (Sta. 126+40)                           | Loughman Oaks Elementary School (Sta. 138+60)              | Arterial     | 1                                                 | 9,300              | 490                                   | 16,800              | 770                                                         | 94.85%  | 1.61%           | 3.09%          | 0.16%   | 0.29%         | 9.0%              | 51%      | 30                 | LOS C                                             | 490                                                                    | N/A                                                    |
| 8                            | US 17/92 (TNM SEG.3)                             | Loughman Oaks Elementary School (Sta. 138+60)              | Providence Blvd (Sta. 165+20)                              | Arterial     | 1                                                 | 9,300              | 490                                   | 18,400              | 910                                                         | 94.85%  | 1.61%           | 3.09%          | 0.16%   | 0.29%         | 9.0%              | 55%      | 55                 | LOS C                                             | 490                                                                    | N/A                                                    |
| 9                            | US 17/92 (TNM SEG.3)                             | Providence Blvd (Sta. 165+20)                              | Hart Rd (CPP Sta. 1304)                                    | Arterial     | 1                                                 | 9,300              | 490                                   | 19,600              | 900                                                         | 94.85%  | 1.61%           | 3.09%          | 0.16%   | 0.29%         | 9.0%              | 51%      | 55                 | LOS C                                             | 490                                                                    | N/A                                                    |
| 10                           | US 17/92 (TNM SEG.3)                             | Hart Rd (CPP Sta. 1304)                                    | S. of Ronald Reagan Pkwy at Lane Add Taper (CPP Sta. 1320) | Arterial     | 1                                                 | 9,300              | 490                                   | 20,200              | 950                                                         | 94.85%  | 1.61%           | 3.09%          | 0.16%   | 0.29%         | 9.0%              | 52%      | 55                 | LOS C                                             | 490                                                                    | N/A                                                    |
| 11                           | US 17/92 (TNM SEG.3)                             | S. of Ronald Reagan Pkwy at Lane Add Taper (CPP Sta. 1320) | Ronald Reagan Pkwy (CPP Sta. 1324)                         | Arterial     | 2                                                 | 51,950             | 2,710                                 | 20,200              | 950                                                         | 94.85%  | 1.61%           | 3.09%          | 0.16%   | 0.29%         | 9.0%              | 52%      | 55                 | DHV                                               | 950                                                                    | 872                                                    |
| 12                           | US 17/92 (TNM SEG.4)                             | Ronald Reagan Pkwy (CPP Sta. 1324)                         | N. Ronald Reagan Pkwy at Lane Drop Taper (Sta. 43)         | Arterial     | 2                                                 | 51,950             | 2,710                                 | 16,000              | 840                                                         | 94.85%  | 1.61%           | 3.09%          | 0.16%   | 0.29%         | 9.02%             | 58%      | 45                 | DHV                                               | 840                                                                    | 605                                                    |
| 13                           | US 17/92 (TNM SEG.4)                             | N. Ronald Reagan Pkwy at Lane Drop Taper (Sta. 43)         | Poinciana Extension                                        | Arterial     | 1                                                 | 9,300              | 490                                   | 16,000              | 840                                                         | 94.85%  | 1.61%           | 3.09%          | 0.16%   | 0.29%         | 9.0%              | 58%      | 45                 | LOS C                                             | 490                                                                    | N/A                                                    |
| 14                           | Ronald Reagan Pkwy (TNM SEGS 3/4)                | Old Kissimmee Rd                                           | US 17/92                                                   | Arterial     | 2                                                 | 36,020             | 1,790                                 | 25,000              | 1,450                                                       | 96.19%  | 1.71%           | 1.65%          | 0.16%   | 0.28%         | 9.0%              | 65%      | 45                 | DHV                                               | 1450                                                                   | 789                                                    |
| 15                           | Kinney Harmon Rd (Poinciana Pkwy) (TNM SEGS 3/4) | US 17/92                                                   | E. of US 17/92 at Lane Drop Taper                          | Arterial     | 2                                                 | 36,020             | 1,790                                 | 17,000              | 1,170                                                       | 97.31%  | 1.14%           | 1.10%          | 0.16%   | 0.28%         | 9.0%              | 69%      | 45                 | DHV                                               | 1170                                                                   | 522                                                    |
| 16                           | Kinney Hamon Rd (Poinciana Pkwy)(TNM SEGS 3/4)   | E. of US 17/92 at Lane Drop Taper                          | Oakhill Blvd                                               | Arterial     | 1                                                 | 36,015             | 1,790                                 | 17,000              | 1,050                                                       | 97.31%  | 1.14%           | 1.10%          | 0.16%   | 0.28%         | 9.0%              | 69%      | 45                 | DHV                                               | 1050                                                                   | 468                                                    |
| 17                           | Kinney Harmon Rd (Poinciana Pkwy)                | E. of US 17/92 at Lane Drop Taper                          | Oak Haven Dr.                                              | Arterial     | 1                                                 | 20,580             | 1,020                                 | 17,000              | 1,170                                                       | 97.31%  | 1.14%           | 1.10%          | 0.16%   | 0.28%         | 8.97%             | 69%      | 45                 | LOS C                                             | 1020                                                                   | N/A                                                    |
| 18                           | Lee Jackson Hwy (CR 547)                         | Magnolia St West                                           | Bargain Barn Rd                                            | Arterial     | 1                                                 | 14,490             | 760                                   | 12,800              | 830                                                         | 97.45%  | 1.07%           | 1.03%          | 0.16%   | 0.28%         | 9.0%              | 62%      | 45                 | LOS C                                             | 760                                                                    | N/A                                                    |
| 19                           | Lee Jackson Hwy (CR 547)                         | Bargain Barn Rd                                            | Oak Haven Dr.                                              | Arterial     | 1                                                 | 14,490             | 760                                   | 12,800              | 830                                                         | 97.45%  | 1.07%           | 1.03%          | 0.16%   | 0.28%         | 9.0%              | 62%      | 45                 | LOS C                                             | 760                                                                    | N/A                                                    |
| 20                           | Bargain Barn Rd (TNM SEG.1)                      | Lee Jackson Hwy (CR 547)                                   | US 17/92                                                   | Arterial     | 1                                                 | 14,490             | 760                                   | 2,000               | 100                                                         | 97.45%  | 1.07%           | 1.03%          | 0.16%   | 0.28%         | 9.3%              | 53%      | 30                 | DHV                                               | 100                                                                    | 88                                                     |
| 21                           | Old Lake Wilson Rd (did not use)                 | Ronald Reagan Pkwy                                         | CR 532                                                     | Arterial     | 1                                                 | 14,490             | 760                                   | 7,600               | 520                                                         | 97.88%  | 0.85%           | 0.82%          | 0.16%   | 0.28%         | 9.1%              | 65%      | 30                 | DHV                                               | 520                                                                    | 275                                                    |
| 22                           | Old Kissimmee Rd (TNM SEG. 4)                    | Ronald Reagan Pkwy                                         | CR 532                                                     | Arterial     | 1                                                 | 14,490             | 760                                   | 3,800               | 260                                                         | 97.88%  | 0.85%           | 0.82%          | 0.16%   | 0.28%         | 9.1%              | 65%      | 35                 | DHV                                               | 260                                                                    | 137                                                    |

| Project/Data Information | Highway Traffic Noise: Traffic Data                 |                                                            |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |             |                    |                          |                                                                        |                                                        |  |
|--------------------------|-----------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|--------------|---------------------------------------------------|--------------------|---------------------------------------|---------------------|-------------------------------------------------------------|---------|-----------------|----------------|---------|---------------|-------------------|-------------|--------------------|--------------------------|------------------------------------------------------------------------|--------------------------------------------------------|--|
|                          | Project Name                                        | Central Polk Pkwy (CPP) East- from 17/92 to SR 538         |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |             |                    |                          |                                                                        |                                                        |  |
|                          | Project Number                                      | 451419-1                                                   |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |             |                    |                          |                                                                        |                                                        |  |
|                          | Condition                                           | No-Build                                                   |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |             |                    |                          |                                                                        |                                                        |  |
|                          | Year                                                | 2050                                                       |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |             |                    |                          |                                                                        |                                                        |  |
|                          | Source                                              | Travel Demand Model                                        |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |             |                    |                          |                                                                        |                                                        |  |
|                          | Preparer [Traffic Engineer]                         | Amin Mohammadnazar                                         |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |             |                    |                          |                                                                        |                                                        |  |
|                          | Prepared Date                                       | 8/22/2025                                                  |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |             |                    |                          |                                                                        |                                                        |  |
|                          | Notes                                               |                                                            |                                                            |              |                                                   |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |             |                    |                          |                                                                        |                                                        |  |
|                          | Roadway Details                                     |                                                            |                                                            |              |                                                   | Traffic Details    |                                       |                     |                                                             |         |                 |                |         |               |                   |             |                    |                          | Raw Traffic Data Selection & Off-Peak Calculation                      |                                                        |  |
| Traffic Segment Number   | Roadway Name                                        | From                                                       | To                                                         | Roadway Type | Number of Lanes<br><small>*In 1 direction</small> | Two-Way LOS C AADT | LOS C Peak Hour Peak Direction (PHPD) | Demand Two-Way AADT | Demand Hourly Volumes (DHV) Peak Hour Peak Direction (PHPD) | % Autos | % Medium Trucks | % Heavy Trucks | % Buses | % Motorcycles | Standard K-factor | D-factor    | Posted Speed (mph) | LOS C vs. DHV Comparison | Peak Direction Volume*<br><small>*Used on both sides for LOS C</small> | Off-Peak Direction Volume*<br><small>*DHV only</small> |  |
| 1                        | US 17/92 (TNM SEG. 1)                               | South of James Street                                      | Power Line Rd Intersection (Sta. 1041)                     | Arterial     | 2                                                 | 24,900             | 1,300                                 | 21,800              | 1,050                                                       | 93.83%  | 1.96%           | 3.76%          | 0.16%   | 0.29%         | 9.0%              | 54%         | 45                 | DHV                      | 1050                                                                   | 910                                                    |  |
| 2                        | US 17/92 (TNM SEG. 1)                               | Power Line Rd Intersection (Sta. 1041)                     | Bargain Barn Rd (Sta. 1043)                                | Arterial     | 2                                                 | 24,900             | 1,300                                 | 31,300              | 1,580                                                       | 93.83%  | 1.96%           | 3.76%          | 0.16%   | 0.29%         | 8.9%              | 57%         | 45                 | LOS C                    | 1300                                                                   | N/A                                                    |  |
| 3                        | US 17/92 (TNM SEG. 1)                               | Bargain Barn Rd (Sta. 1043)                                | Tiny Flower Rd (Sta. 1060)                                 | Arterial     | 1                                                 | 15,760             | 820                                   | 31,600              | 1,600                                                       | 93.83%  | 1.96%           | 3.76%          | 0.16%   | 0.29%         | 9.0%              | 56%         | 45                 | LOS C                    | 820                                                                    | N/A                                                    |  |
| 4                        | US 17/92 (TNM SEG.1)                                | Tiny Flower Rd (Sta. 1060)                                 | Lem Carnes Rd (Sta. 1107+60)                               | Arterial     | 1                                                 | 15,760             | 820                                   | 32,000              | 1,660                                                       | 93.83%  | 1.96%           | 3.76%          | 0.16%   | 0.29%         | 9.0%              | 57%         | 55                 | LOS C                    | 820                                                                    | N/A                                                    |  |
| 5                        | US 17/92 (TNM SEG.2)                                | Lem Carnes Rd (Sta. 1107+60)                               | Ernie Caldwell Blvd (Sta. 60+40)                           | Arterial     | 1                                                 | 15,760             | 820                                   | 32,600              | 1,680                                                       | 93.83%  | 1.96%           | 3.76%          | 0.16%   | 0.29%         | 9.0%              | 57%         | 55                 | LOS C                    | 820                                                                    | N/A                                                    |  |
| 6                        | US 17/92 (TNM SEG.2)                                | Ernie Caldwell Blvd (Sta. 60+40)                           | Garman Ave (Sta. 101+20)                                   | Arterial     | 1                                                 | 15,760             | 820                                   | 29,000              | 1,400                                                       | 93.83%  | 1.96%           | 3.76%          | 0.16%   | 0.29%         | 9.1%              | 54%         | 55                 | LOS C                    | 820                                                                    | N/A                                                    |  |
| 7                        | US 17/92 (TNM SEG.3)                                | Garman Ave (Sta. 101+20)                                   | Orange Cosmos Blvd (Sta. 126+40)                           | Arterial     | 1                                                 | 15,760             | 820                                   | 29,000              | 1,410                                                       | 93.83%  | 1.96%           | 3.76%          | 0.16%   | 0.29%         | 9.0%              | 54%         | 55                 | LOS C                    | 820                                                                    | N/A                                                    |  |
| 8                        | US 17/92 Did not use                                | Orange Cosmos Blvd (Sta. 126+40)                           | Loughman Oaks Elementary School (Sta. 138+60)              | Arterial     | 1                                                 | 15,760             | 820                                   | 29,400              | 1,430                                                       | 93.83%  | 1.96%           | 3.76%          | 0.16%   | 0.29%         | 9.00%             | 54%         | 30                 | LOS C                    | 820                                                                    | N/A                                                    |  |
| 9                        | US 17/92 (TNM SEG.3)                                | Loughman Oaks Elementary School (Sta. 138+60)              | Providence Blvd (Sta. 165+20)                              | Arterial     | 1                                                 | 15,760             | 820                                   | 31,400              | 1,440                                                       | 93.83%  | 1.96%           | 3.76%          | 0.16%   | 0.29%         | 9.0%              | 51%         | 55                 | LOS C                    | 820                                                                    | N/A                                                    |  |
| 10                       | US 17/92 (TNM SEG.3)                                | Providence Blvd (Sta. 165+20)                              | Hart Rd (CPP Sta. 1304)                                    | Arterial     | 1                                                 | 15,760             | 820                                   | 33,000              | 1,700                                                       | 93.83%  | 1.96%           | 3.76%          | 0.16%   | 0.29%         | 9.0%              | 57%         | 55                 | LOS C                    | 820                                                                    | N/A                                                    |  |
| 11                       | US 17/92 (TNM SEG.3)                                | Hart Rd (CPP Sta. 1304)                                    | S. of Ronald Reagan Pkwy at Lane Add Taper (CPP Sta. 1320) | Arterial     | 1                                                 | 15,760             | 820                                   | 33,400              | 1,770                                                       | 93.83%  | 1.96%           | 3.76%          | 0.16%   | 0.29%         | 9.0%              | 59%         | 55                 | LOS C                    | 820                                                                    | N/A                                                    |  |
| 12                       | US 17/92 (TNM SEG.4)                                | S. of Ronald Reagan Pkwy at Lane Add Taper (CPP Sta. 1320) | Ronald Reagan Pkwy (CPP Sta. 1324)                         | Arterial     | 2                                                 | 24,900             | 1,300                                 | 33,400              | 1,770                                                       | 93.83%  | 1.96%           | 3.76%          | 0.16%   | 0.29%         | 9.01%             | 59%         | 55                 | LOS C                    | 1300                                                                   | N/A                                                    |  |
| 13                       | US 17/92 (TNM SEG.4)                                | Ronald Reagan Pkwy (CPP Sta. 1324)                         | Poinciana Extension (Sta. 66)                              | Arterial     | 2                                                 | 24,900             | 1,300                                 | 31,400              | 1,740                                                       | 93.83%  | 1.96%           | 3.76%          | 0.16%   | 0.29%         | 9.0%              | 62%         | 45                 | LOS C                    | 1300                                                                   | N/A                                                    |  |
| 14                       | Ronald Reagan Pkwy                                  | Old Kissimmee Rd                                           | US 17/92                                                   | Arterial     | 2                                                 | 36,020             | 1,790                                 | 24,600              | 1,120                                                       | 95.47%  | 2.08%           | 2.01%          | 0.16%   | 0.28%         | 9.0%              | 51%         | 45                 | DHV                      | 1120                                                                   | 1090                                                   |  |
| 15                       | Kinney Harmon Rd (Poinciana Pkwy) (TNM SEGs 3/4)    | US 17/92                                                   | E. of US 17/92 at Lane Drop Taper                          | Arterial     | 2                                                 | 36,020             | 1,790                                 | 8,000               | 440                                                         | 97.31%  | 1.14%           | 1.10%          | 0.16%   | 0.28%         | 9.0%              | 61%         | 45                 | DHV                      | 440                                                                    | 280                                                    |  |
| 16                       | Kinney Hamon Rd (Poinciana Pkwy)(TNM SEGs 3/4)      | E. of US 17/92 at Lane Drop Taper                          | Oakhill Blvd                                               | Arterial     | 1                                                 | 20,580             | 1,020                                 | 8,000               | 440                                                         | 97.31%  | 1.14%           | 1.10%          | 0.16%   | 0.28%         | 9.0%              | 61%         | 45                 | DHV                      | 440                                                                    | 280                                                    |  |
| 17                       | Power Line Rd (TNM SEG 1)- SEE ETP INPUT            | East of US17/92                                            | US 17/92                                                   | Arterial     | 2                                                 | 36,020             | 1,790                                 | 16,000              | 830                                                         | 95.49%  | 1.39%           | 2.67%          | 0.16%   | 0.29%         | 9.00%             | 58%         | 45                 | DHV                      | 830                                                                    | 610                                                    |  |
| 18                       | Lee Jackson Hwy (CR 547) Did not use                | Magnolia St West                                           | Bargain Barn Rd                                            | Arterial     | 1                                                 | 15,760             | 820                                   | 16,200              | 1,030                                                       | 96.99%  | 1.30%           | 1.26%          | 0.16%   | 0.28%         | 9.0%              | 64%         | 45                 | LOS C                    | 820                                                                    | N/A                                                    |  |
| 19                       | Lee Jackson Hwy (CR 547) Did not use                | Bargain Barn Rd                                            | Oak Haven Dr.                                              | Arterial     | 1                                                 | 15,760             | 820                                   | 16,200              | 1,030                                                       | 96.99%  | 1.30%           | 1.26%          | 0.16%   | 0.28%         | 9.0%              | 64%         | 45                 | LOS C                    | 820                                                                    | N/A                                                    |  |
| 20                       | Bargain Barn Rd (TNM SEG.1)                         | Lee Jackson Hwy (CR 547)                                   | US 17/92                                                   | Arterial     | 1                                                 | 15,760             | 820                                   | 2,800               | 130                                                         | 96.99%  | 1.30%           | 1.26%          | 0.16%   | 0.28%         | 8.9%              | 52%         | 30                 | DHV                      | 130                                                                    | 120                                                    |  |
| 21                       | Old Lake Wilson Rd (did not use)                    | Ronald Reagan Pkwy                                         | CR 532                                                     | Arterial     | 1                                                 | 15,760             | 820                                   | 9,800               | 640                                                         | 97.52%  | 1.03%           | 1.00%          | 0.16%   | 0.28%         | 9.0%              | 64%         | 30                 | DHV                      | 640                                                                    | 354                                                    |  |
| 22                       | Poinciana Pkwy Extension                            | US 17/92 NB Off/ SB On-Ramps                               | US 17/92 NB Off/ SB On-Ramps                               | Mainline     | 2                                                 | 66690              | 3300                                  | 54600               | 3840                                                        | 89%     | 6%              | 2%             | 3%      | 1%            | 0.11              | 0.640159046 | 65                 | LOS C                    | 3300                                                                   | N/A                                                    |  |
| 23                       | Poinciana Pkwy Extension                            | US 17/92 NB On/ SB Off-Ramps                               | CR 532 CPP East Ramps                                      | Mainline     | 2                                                 | 66690              | 3300                                  | 67000               | 4720                                                        | 89%     | 6%              | 2%             | 3%      | 1%            | 0.11              | 0.640159046 | 65                 | LOS C                    | 3300                                                                   | N/A                                                    |  |
| 24                       | Poinciana Pkwy Extension                            | CR 532 CPP East Ramps                                      | North of CR 532                                            | Mainline     | 2                                                 | 66690              | 3300                                  | 81600               | 5750                                                        | 89%     | 6%              | 2%             | 3%      | 1%            | 0.11              | 0.640159046 | 65                 | LOS C                    | 3300                                                                   | N/A                                                    |  |
| 25                       | Poinciana Pkwy Extension - NB Off-ramp to US 17/92  | Poinciana Pkwy Extension                                   | US 17/92                                                   | Ramp         | 1                                                 | 9700               | 1370                                  | 11900               | 840                                                         | 89%     | 6%              | 2%             | 3%      | 1%            | 0.11              | 0.640159046 | 35                 | DHV                      | 840                                                                    | 472                                                    |  |
| 26                       | Poinciana Pkwy Extension - SB On-ramp from US 17/92 | US 17/92                                                   | Poinciana Pkwy Extension                                   | Ramp         | 1                                                 | 9700               | 1370                                  | 11900               | 840                                                         | 89%     | 6%              | 2%             | 3%      | 1%            | 0.11              | 0.640159046 | 35                 | DHV                      | 840                                                                    | 472                                                    |  |
| 27                       | Poinciana Pkwy Extension - NB On-ramp from US 17/92 | US 17/92                                                   | Poinciana Pkwy Extension                                   | Ramp         | 1                                                 | 9700               | 1370                                  | 24300               | 1710                                                        | 89%     | 6%              | 2%             | 3%      | 1%            | 0.11              | 0.640159046 | 35                 | DHV                      | 1710                                                                   | 961                                                    |  |
| 28                       | Poinciana Pkwy Extension - SB Off-ramp to US 17/92  | Poinciana Pkwy Extension                                   | US 17/92                                                   | Ramp         | 1                                                 | 9700               | 1370                                  | 24300               | 1710                                                        | 89%     | 6%              | 2%             | 3%      | 1%            | 0.11              | 0.640159046 | 35                 | DHV                      | 1710                                                                   | 961                                                    |  |
| 29                       | Poinciana Pkwy Extension - NB On-ramp from CR 532   | CR 532                                                     | Poinciana Pkwy Extension                                   | Ramp         | 1                                                 | 9700               | 1370                                  | 14600               | 1030                                                        | 89%     | 6%              | 2%             | 3%      | 1%            | 0.11              | 0.640159046 | 35                 | DHV                      | 1030                                                                   | 579                                                    |  |
| 30                       | Poinciana Pkwy Extension - SB Off-ramp to CR 532    | Poinciana Pkwy Extension                                   | CR 532                                                     | Ramp         | 1                                                 | 9700               | 1370                                  | 14600               | 1030                                                        | 89%     | 6%              | 2%             | 3%      | 1%            | 0.11              | 0.640159046 | 35                 | DHV                      | 1030                                                                   | 579                                                    |  |
| 31                       | Old Kissimmee Rd (TNM SEG.4)                        | Ronald Reagan Pkwy                                         | CR 532                                                     | Arterial     | 1                                                 | 15,760             | 820                                   | 4,900               | 320                                                         | 97.52%  | 1.03%           | 1.00%          | 0.16%   | 0.28%         | 9.0%              | 64%         | 35                 | DHV                      | 320                                                                    | 177                                                    |  |



| Project/Data Information | Highway Traffic Noise: Traffic Data                                        |                                                            |                                                            |              |                                    |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                         |                                         |
|--------------------------|----------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|--------------|------------------------------------|--------------------|---------------------------------------|---------------------|-------------------------------------------------------------|---------|-----------------|----------------|---------|---------------|-------------------|----------|--------------------|---------------------------------------------------|---------------------------------------------------------|-----------------------------------------|
|                          | Project Name                                                               | Central Polk Pkwy (CPP) East- from 17/92 to SR 538         |                                                            |              |                                    |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                         |                                         |
|                          | Project Number                                                             | 451419-1                                                   |                                                            |              |                                    |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                         |                                         |
|                          | Condition                                                                  | Build                                                      |                                                            |              |                                    |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                         |                                         |
|                          | Year                                                                       | 2050                                                       |                                                            |              |                                    |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                         |                                         |
|                          | Source                                                                     | Travel Demand Model                                        |                                                            |              |                                    |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                         |                                         |
|                          | Preparer [Traffic Engineer]                                                | Amin Mohammadnazar                                         |                                                            |              |                                    |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                         |                                         |
|                          | Prepared Date                                                              | 8/22/2025                                                  |                                                            |              |                                    |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                         |                                         |
| Notes                    |                                                                            |                                                            |                                                            |              |                                    |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    |                                                   |                                                         |                                         |
| Roadway Details          |                                                                            |                                                            |                                                            |              | Traffic Details                    |                    |                                       |                     |                                                             |         |                 |                |         |               |                   |          |                    | Raw Traffic Data Selection & Off-Peak Calculation |                                                         |                                         |
| Traffic Segment Number   | Roadway Name                                                               | From                                                       | To                                                         | Roadway Type | Number of Lanes<br>*In 1 direction | Two-Way LOS C AADT | LOS C Peak Hour Peak Direction (PHPD) | Demand Two-Way AADT | Demand Hourly Volumes (DHV) Peak Hour Peak Direction (PHPD) | % Autos | % Medium Trucks | % Heavy Trucks | % Buses | % Motorcycles | Standard K-factor | D-factor | Posted Speed (mph) | LOS C vs. DHV Comparison                          | Peak Direction Volume*<br>*Used on both sides for LOS C | Off-Peak Direction Volume*<br>*DHV only |
| 1                        | CPP East (TNM Segs. 1 & 2)                                                 | Power Line Rd                                              | Intermediate Ramps (Sta. 1200)                             | Mainline     | 2                                  | 66,690             | 3,300                                 | 40,400              | 2,760                                                       | 88.70%  | 5.65%           | 1.74%          | 3.26%   | 0.66%         | 10.5%             | 65%      | 70                 | DHV                                               | 2760                                                    | 1486                                    |
| 2                        | CPP East (TNM Seg. 2, 3,4)                                                 | Intermediate Ramps (Sta. 1200)                             | Poinciana Connector                                        | Mainline     | 2                                  | 66,690             | 3,300                                 | 47,800              | 3,270                                                       | 88.70%  | 5.65%           | 1.74%          | 3.26%   | 0.66%         | 10.5%             | 65%      | 70                 | DHV                                               | 3270                                                    | 1761                                    |
| 3                        | CPP East - Northbound On-ramp (TNM Seg.2)                                  | US 17/92                                                   | CPP East                                                   | Ramp         | 1                                  | 10,000             | 1,370                                 | 7,400               | 510                                                         | 88.70%  | 5.65%           | 1.74%          | 3.26%   | 0.66%         | 10.5%             | 65%      | 35                 | DHV                                               | 510                                                     | 275                                     |
| 4                        | CPP East - Southbound Off-ramp (TNM Seg.2)                                 | CPP East                                                   | US 17/92                                                   | Ramp         | 1                                  | 10,500             | 1,440                                 | 7,400               | 510                                                         | 88.70%  | 5.65%           | 1.74%          | 3.26%   | 0.66%         | 10.5%             | 65%      | 45                 | DHV                                               | 510                                                     | 275                                     |
| 5                        | US 17/92 (TNM Seg.1)                                                       | South of James Street (Sta. 1028)                          | Power Line Rd Intersection (Sta. 1041)                     | Arterial     | 3                                  | 43,460             | 2,270                                 | 37,600              | 2,030                                                       | 92.40%  | 2.45%           | 4.70%          | 0.16%   | 0.29%         | 9.0%              | 60%      | 45                 | DHV                                               | 2030                                                    | 1353                                    |
| 6                        | US 17/92 (TNM Seg.1)                                                       | Power Line Rd Intersection (Sta. 1041)                     | Tiny Flower Rd (Sta. 1060)                                 | Arterial     | 3                                  | 43,460             | 2,270                                 | 62,800              | 3,450                                                       | 93.69%  | 2.01%           | 3.85%          | 0.16%   | 0.29%         | 9.0%              | 61%      | 45                 | LOS C                                             | 2270                                                    | N/A                                     |
| 7                        | US 17/92 (TNM Seg.1)                                                       | Power Line Rd Intersection (Sta. 1041)                     | Tiny Flower Rd (Sta. 1060)                                 | Arterial     | 4                                  | 63,520             | 3,330                                 | 62,800              | 3,450                                                       | 93.69%  | 2.01%           | 3.85%          | 0.16%   | 0.29%         | 9.0%              | 61%      | 45                 | LOS C                                             | 3330                                                    | N/A                                     |
| 8                        | US 17/92 Same as #6                                                        | Tiny Flower Rd (Sta. 1060)                                 | CPP East On-Ramp                                           | Arterial     | 3                                  | 43,460             | 2,270                                 | 65,600              | 3,610                                                       | 93.69%  | 2.01%           | 3.85%          | 0.16%   | 0.29%         | 9.0%              | 61%      | 45                 | LOS C                                             | 2270                                                    | N/A                                     |
| 9                        | US 17/92 Same as #7                                                        | Tiny Flower Rd (Sta. 1075)                                 | CPP East On-Ramp                                           | Arterial     | 4                                  | 63,520             | 3,330                                 | 65,600              | 3,610                                                       | 93.69%  | 2.01%           | 3.85%          | 0.16%   | 0.29%         | 9.00%             | 61%      | 45                 | LOS C                                             | 3330                                                    | N/A                                     |
| 10                       | US 17/92 DID NOT USE                                                       | CPP East Ramps                                             | Lem Carnes Rd (Sta. 1107+60)                               | Arterial     | 2                                  | 24,900             | 1,300                                 | 25,200              | 850                                                         | 96.14%  | 1.17%           | 2.24%          | 0.16%   | 0.29%         | 8.0%              | 55%      | 50                 | DHV                                               | 850                                                     | 695                                     |
| 11                       | US 17/92 (TNM Seg. 2)                                                      | Lem Carnes Rd (Sta. 1107+60)                               | Ernie Caldwell Blvd (Sta. 60+40)                           | Arterial     | 2                                  | 24,900             | 1,300                                 | 18,000              | 780                                                         | 96.14%  | 1.17%           | 2.24%          | 0.16%   | 0.29%         | 0.0%              | 0%       | 55                 | DHV                                               | 780                                                     | #DIV/0!                                 |
| 12                       | US 17/92 (TNM Seg. 2)                                                      | Ernie Caldwell Blvd (Sta. 60+40)                           | CPP East Intermediate Ramps (Sta. 61)                      | Arterial     | 2                                  | 24,900             | 1,300                                 | 25,800              | 1,420                                                       | 96.14%  | 1.17%           | 2.24%          | 0.16%   | 0.29%         | 8.5%              | 60%      | 55                 | LOS C                                             | 1300                                                    | N/A                                     |
| 13                       | US 17/92 (TNM Seg. 2)                                                      | CPP East Intermediate Ramps (Sta. 61)                      | S. of Garman Ave at Lane Drop Taper (Sta. NB84/SB92)       | Arterial     | 2                                  | 24,900             | 1,300                                 | 18,600              | 990                                                         | 96.14%  | 1.17%           | 2.24%          | 0.16%   | 0.29%         | 8.5%              | 60%      | 55                 | DHV                                               | 990                                                     | 660                                     |
| 14                       | US 17/92 (TNM Seg. 2)                                                      | S. of Garman Ave at Lane Drop Taper (Sta. NB84/SB92)       | Garman Ave (Sta. 111)                                      | Arterial     | 1                                  | 15,760             | 820                                   | 18,600              | 990                                                         | 96.14%  | 1.17%           | 2.24%          | 0.16%   | 0.29%         | 8.5%              | 60%      | 55                 | LOS C                                             | 820                                                     | N/A                                     |
| 15                       | US 17/92 (TNM Seg. 2)                                                      | Garman Ave (Sta. 111)                                      | Orange Cosmos Blvd (Sta. 126+40)                           | Arterial     | 1                                  | 15,760             | 820                                   | 18,800              | 1,000                                                       | 96.14%  | 1.17%           | 2.24%          | 0.16%   | 0.29%         | 8.5%              | 60%      | 55                 | LOS C                                             | 820                                                     | N/A                                     |
| 16                       | US 17/92 DID NOT USE                                                       | Orange Cosmos Blvd (Sta. 126+40)                           | Loughman Oaks Elementary School (Sta. 138+60)              | Arterial     | 1                                  | 15,760             | 820                                   | 19,200              | 1,030                                                       | 96.14%  | 1.17%           | 2.24%          | 0.16%   | 0.29%         | 8.5%              | 60%      | 30                 | LOS C                                             | 820                                                     | N/A                                     |
| 17                       | US 17/92 (TNM Seg. 3)                                                      | Loughman Oaks Elementary School (Sta. 138+60)              | Providence Blvd (Sta. 165+20)                              | Arterial     | 1                                  | 15,760             | 820                                   | 21,400              | 1,040                                                       | 96.14%  | 1.17%           | 2.24%          | 0.16%   | 0.29%         | 8.5%              | 60%      | 55                 | LOS C                                             | 820                                                     | N/A                                     |
| 18                       | US 17/92 (TNM Seg. 3)                                                      | Providence Blvd (Sta. 165+20)                              | Hart Rd (CPP Sta. 1304)                                    | Arterial     | 1                                  | 15,760             | 820                                   | 23,200              | 1,300                                                       | 96.14%  | 1.17%           | 2.24%          | 0.16%   | 0.29%         | 8.5%              | 60%      | 55                 | LOS C                                             | 820                                                     | N/A                                     |
| 19                       | US 17/92 (TNM Seg. 3)                                                      | Hart Rd (CPP Sta. 1304)                                    | S. of Ronald Reagan Pkwy at Lane Add Taper (CPP Sta. 1320) | Arterial     | 1                                  | 15,760             | 820                                   | 23,600              | 1,370                                                       | 96.14%  | 1.17%           | 2.24%          | 0.16%   | 0.29%         | 8.5%              | 60%      | 55                 | LOS C                                             | 820                                                     | N/A                                     |
| 20                       | US 17/92 (TNM Seg. 3)                                                      | S. of Ronald Reagan Pkwy at Lane Add Taper (CPP Sta. 1320) | Ronald Reagan Pkwy (CPP Sta. 1324)                         | Arterial     | 2                                  | 24,900             | 1,300                                 | 23,600              | 1,370                                                       | 96.14%  | 1.17%           | 2.24%          | 0.16%   | 0.29%         | 8.5%              | 60%      | 55                 | LOS C                                             | 1300                                                    | N/A                                     |
| 21                       | US 17/92 (TNM Seg. 3,4)                                                    | Ronald Reagan Pkwy (CPP Sta. 1324)                         | Poinciana Extension (Sta. 66)                              | Arterial     | 2                                  | 24,900             | 1,300                                 | 29,600              | 1,690                                                       | 96.14%  | 1.17%           | 2.24%          | 0.16%   | 0.29%         | 9.0%              | 63%      | 45                 | LOS C                                             | 1300                                                    | N/A                                     |
| 22                       | Ronald Reagan Pkwy                                                         | Poinciana Extension (Sta. 66)                              | US 17/92                                                   | Arterial     | 2                                  | 36,020             | 1,790                                 | 24800               | 1,190                                                       | 95.47%  | 2.08%           | 2.01%          | 0.16%   | 0.28%         | 8.9%              | 55%      | 45                 | DHV                                               | 1190                                                    | 974                                     |
| 23                       | Kinney Harmon Rd (Poinciana Pkwy) (TNM Seg 3,4)                            | US 17/92                                                   | E. of US 17/92 at Lane Drop Taper                          | Arterial     | 2                                  | 36,020             | 1,790                                 | 8000                | 440                                                         | 97.31%  | 1.14%           | 1.10%          | 0.16%   | 0.28%         | 9.0%              | 61%      | 45                 | DHV                                               | 440                                                     | 280                                     |
| 24                       | Kinney Harmon Rd (Poinciana Pkwy) (TNM Seg 3,4)                            | E. of US 17/92 at Lane Drop Taper                          | Oakhill Blvd                                               | Arterial     | 1                                  | 20,580             | 1,020                                 | 8000                | 440                                                         | 97.31%  | 1.14%           | 1.10%          | 0.16%   | 0.28%         | 9.0%              | 61%      | 45                 | DHV                                               | 440                                                     | 280                                     |
| 25                       | Power Line Rd (TNM Seg. 1)                                                 | East of US17/92                                            | US 17/92                                                   | Arterial     | 2                                  | 36,020             | 1,790                                 | 28400               | 1,530                                                       | 95.49%  | 1.39%           | 2.67%          | 0.16%   | 0.29%         | 9.0%              | 60%      | 45                 | DHV                                               | 1530                                                    | 1020                                    |
| 26                       | Lee Jackson Hwy (CR 547) - DID NOT USE                                     | Magnolia St West                                           | Bargain Barn Rd                                            | Arterial     | 1                                  | 15,760             | 820                                   | 14800               | 940                                                         | 96.99%  | 1.30%           | 1.26%          | 0.16%   | 0.28%         | 8.9%              | 66%      | 45                 | LOS C                                             | 820                                                     | N/A                                     |
| 27                       | Lee Jackson Hwy (CR 547) - DID NOT USE                                     | Bargain Barn Rd                                            | Oak Haven Dr.                                              | Arterial     | 1                                  | 15,760             | 820                                   | 14800               | 940                                                         | 96.99%  | 1.30%           | 1.26%          | 0.16%   | 0.28%         | 8.9%              | 66%      | 45                 | LOS C                                             | 820                                                     | N/A                                     |
| 28                       | Bargain Barn Rd (TNM Seg. 1)                                               | Lee Jackson Hwy (CR 547)                                   | US 17/92                                                   | Arterial     | 1                                  | 15,760             | 820                                   | 8800                | 430                                                         | 96.99%  | 1.30%           | 1.26%          | 0.16%   | 0.28%         | 9.1%              | 54%      | 30                 | DHV                                               | 430                                                     | 370                                     |
| 29                       | Old Lake Wilson Rd - NOT MODELED, but used traffic for Old Kissimmee (#47) | Ronald Reagan Pkwy                                         | CR 532                                                     | Arterial     | 1                                  | 15,760             | 820                                   | 9800                | 640                                                         | 97.52%  | 1.03%           | 1.00%          | 0.16%   | 0.28%         | 9.0%              | 64%      | 30                 | DHV                                               | 640                                                     | 354                                     |
| 30                       | Poinciana Pkwy Extension (TNM Seg 4)                                       | Poinciana Pkwy Extension                                   | US 17/92 NB Off/ SB On-Ramps                               | Mainline     | 2                                  | 66,690             | 3,300                                 | 47,600              | 3,350                                                       | 88.70%  | 5.65%           | 1.74%          | 3.26%   | 0.66%         | 11.0%             | 64%      | 65                 | LOS C                                             | 3300                                                    | N/A                                     |
| 31                       | Poinciana Pkwy Extension (TNM Seg 4)                                       | US 17/92 NB On/ SB Off-Ramps                               | CPP East Ramps                                             | Mainline     | 2                                  | 66,690             | 3,300                                 | 40,100              | 2,820                                                       | 88.70%  | 5.65%           | 1.74%          | 3.26%   | 0.66%         | 11.0%             | 64%      | 65                 | DHV                                               | 2820                                                    | 1585                                    |
| 32                       | Poinciana Pkwy Extension (TNM Seg 4)                                       | CPP East Ramps                                             | CR 532 Ramps                                               | Mainline     | 2                                  | 66,690             | 3,300                                 | 87,900              | 6,190                                                       | 88.70%  | 5.65%           | 1.74%          | 3.26%   | 0.66%         | 11.0%             | 64%      | 65                 | LOS C                                             | 3300                                                    | N/A                                     |
| 33                       | Poinciana Pkwy Extension DID NOT USE                                       | CR 532 Ramps                                               | North of CR 532                                            | Mainline     | 2                                  | 66,690             | 3,300                                 | 90,400              | 6,370                                                       | 88.70%  | 5.65%           | 1.74%          | 3.26%   | 0.66%         | 11.0%             | 64%      | 65                 | LOS C                                             | 3300                                                    | N/A                                     |
| 34                       | Poinciana Pkwy Extension - NB Off-ramp to US 17/92(TNM Seg. 4)             | Poinciana Pkwy Extension                                   | US 17/92                                                   | Ramp         | 1                                  | 10,000             | 1,370                                 | 17,400              | 1,230                                                       | 88.70%  | 5.65%           | 1.74%          | 3.26%   | 0.66%         | 11.0%             | 64%      | 35                 | DHV                                               | 1230                                                    | 691                                     |
| 35                       | Poinciana Pkwy Extension - SB On-ramp from US 17/92 (TNM Seg. 4)           | US 17/92                                                   | Poinciana Pkwy Extension                                   | Ramp         | 1                                  | 10,000             | 1,370                                 | 17400               | 1,230                                                       | 88.70%  | 5.65%           | 1.74%          | 3.26%   | 0.66%         | 11.0%             | 64%      | 35                 | DHV                                               | 1230                                                    | 691                                     |
| 36                       | Poinciana Pkwy Extension - NB On-ramp from US 17/92 (TNM Seg. 4)           | US 17/92                                                   | Poinciana Pkwy Extension                                   | Ramp         | 1                                  | 10,000             | 1,370                                 | 9,900               | 700                                                         | 88.70%  | 5.65%           | 1.74%          | 3.26%   | 0.66%         | 11.0%             | 64%      | 35                 | DHV                                               | 700                                                     | 393                                     |
| 37                       | Poinciana Pkwy Extension - SB Off-ramp to US 17/92 (TNM Seg. 4)            | Poinciana Pkwy Extension                                   | US 17/92                                                   | Ramp         | 1                                  | 10,000             | 1,370                                 | 9900                | 700                                                         | 88.70%  | 5.65%           | 1.74%          | 3.26%   | 0.66%         | 11.0%             | 64%      | 35                 | DHV                                               | 700                                                     | 393                                     |
| 38                       | Poinciana Pkwy Extension - NB On-ramp from CPP East (TNM Seg. 4)           | US 17/92                                                   | Poinciana Pkwy Extension                                   | Ramp         | 2                                  | 20,400             | 2,880                                 | 47,800              | 3,370                                                       | 88.70%  | 5.65%           | 1.74%          | 3.26%   | 0.66%         | 11.0%             | 64%      | 45                 | DHV                                               | 3370                                                    | 1894                                    |
| 39                       | Poinciana Pkwy Extension - SB Off-ramp to CPP East (TNM Seg. 4)            | Poinciana Pkwy Extension                                   | US 17/92                                                   | Ramp         | 2                                  | 20,400             | 2,880                                 | 47,800              | 3,370                                                       | 88.70%  | 5.65%           | 1.74%          | 3.26%   | 0.66%         | 11.0%             | 64%      | 45                 | DHV                                               | 3370                                                    | 1894                                    |
| 40                       | Poinciana Pkwy Extension - NB On-ramp from CR 532 - did not use            | CR 532                                                     | Poinciana Pkwy Extension                                   | Ramp         | 1                                  | 10,000             | 1,370                                 | 2,500               | 180                                                         | 88.70%  | 5.65%           | 1.74%          | 3.26%   | 0.66%         | 11.0%             | 64%      | 35                 | DHV                                               | 180                                                     | 101                                     |
| 41                       | Poinciana Pkwy Extension - SB Off-ramp to CR 532 - did not use             | Poinciana Pkwy Extension                                   | CR 532                                                     | Ramp         | 1                                  | 10,000             | 1,370                                 | 2,500               | 180                                                         | 88.70%  | 5.65%           | 1.74%          | 3.26%   | 0.66%         | 11.0%             | 64%      | 35                 | DHV                                               | 180                                                     | 101                                     |

## **Appendix B-1: Residential Properties Predicted Noise Levels**

## Predicted Noise Levels

## Appendix B-1

| Common Noise Environment (CNE) | Receptor Point          | No. of Units | NAC | NAC Criterion (dB(A)) | FDOT Criterion (dB(A)) | 2024 Existing LAeq1h (dB(A)) | 2050 No-Build LAeq1h (dB(A)) | 2050 Build LAeq1h (dB(A)) | Increase | NAC Approach or Exceeded | Substantial Increase (≥15dB(A)) | Description                              |
|--------------------------------|-------------------------|--------------|-----|-----------------------|------------------------|------------------------------|------------------------------|---------------------------|----------|--------------------------|---------------------------------|------------------------------------------|
| XX.X                           | Impacted Receptor       |              |     |                       |                        |                              |                              |                           |          |                          |                                 |                                          |
| NB01                           | RNB01-01                | 1            | B   | 67                    | 66                     | 54.5                         | 58.1                         | 61.0                      | 6.5      | No                       | No                              | Jamestown residence                      |
| NB01                           | RNB01-02                | 1            | B   | 67                    | 66                     | 53.0                         | 56.6                         | 59.8                      | 6.8      | No                       | No                              | Jamestown residence                      |
| NB01                           | RNB01-03                | 1            | B   | 67                    | 66                     | 60.6                         | 64.2                         | 65.7                      | 5.1      | No                       | No                              | Jamestown residence                      |
| NB01                           | RNB01-04                | 1            | B   | 67                    | 66                     | 56.4                         | 59.9                         | 62.5                      | 6.1      | No                       | No                              | Jamestown residence                      |
| NB01                           | RNB01-05                | 1            | B   | 67                    | 66                     | 62.4                         | 65.9                         | 67.7                      | 5.3      | Yes                      | No                              | Jamestown residence                      |
| NB01                           | RNB01-06                | 1            | B   | 67                    | 66                     | 59.4                         | 63.0                         | 65.8                      | 6.4      | No                       | No                              | Jamestown residence                      |
| NB01                           | RNB01-07                | 1            | B   | 67                    | 66                     | 57.6                         | 61.2                         | 63.6                      | 6.0      | No                       | No                              | Jamestown residence                      |
| NB01                           | RNB01-08                | 1            | B   | 67                    | 66                     | 55.3                         | 58.9                         | 62.0                      | 6.7      | No                       | No                              | Jamestown residence                      |
| NB01                           | RNB01-09                | 1            | B   | 67                    | 66                     | 52.2                         | 56.0                         | 59.9                      | 7.7      | No                       | No                              | Jamestown residence                      |
| NB01                           | RNB01-10                | 1            | B   | 67                    | 66                     | 58.0                         | 61.5                         | 64.7                      | 6.7      | No                       | No                              | Jamestown residence                      |
| NB01                           | RNB01-11                | 1            | B   | 67                    | 66                     | 59.8                         | 63.4                         | 66.6                      | 6.8      | Yes                      | No                              | Jamestown residence                      |
| NB01                           | RNB01-12                | 1            | B   | 67                    | 66                     | 56.8                         | 60.4                         | 63.6                      | 6.8      | No                       | No                              | Jamestown residence                      |
| NB01                           | RNB01-13                | 1            | B   | 67                    | 66                     | 55.8                         | 59.4                         | 62.9                      | 7.1      | No                       | No                              | Jamestown residence                      |
| NB01                           | RNB01-14                | 1            | B   | 67                    | 66                     | 54.2                         | 57.9                         | 61.7                      | 7.5      | No                       | No                              | Jamestown residence                      |
| NB01                           | RNB01-15                | 1            | B   | 67                    | 66                     | 52.4                         | 56.3                         | 60.4                      | 8.0      | No                       | No                              | Jamestown residence                      |
| NB01                           | RNB01-16                | 1            | B   | 67                    | 66                     | 60.5                         | 64.0                         | 66.9                      | 6.4      | Yes                      | No                              | Jamestown residence                      |
| NB01                           | RNB01-17                | 1            | B   | 67                    | 66                     | 56.6                         | 60.3                         | 63.7                      | 7.1      | No                       | No                              | Jamestown residence                      |
| NB01                           | RNB01-18                | 1            | B   | 67                    | 66                     | 53.7                         | 57.6                         | 61.4                      | 7.7      | No                       | No                              | Jamestown residence                      |
| NB02                           | RNB02-01                | 1            | B   | 67                    | 66                     | 53.4                         | 60.8                         | 63.7                      | 10.3     | No                       | No                              | Single-family residence                  |
| NB02                           | RNB02-02                | 1            | B   | 67                    | 66                     | 51.1                         | 59.7                         | 62.0                      | 10.9     | No                       | No                              | Single-family residence                  |
| NB02                           | RNB02-03                | 1            | B   | 67                    | 66                     | 60.7                         | 63.7                         | 68.3                      | 7.6      | Yes                      | No                              | Single-family residence                  |
| NB02                           | RNB02-04                | 1            | B   | 67                    | 66                     | 59.3                         | 62.1                         | 67.4                      | 8.1      | Yes                      | No                              | Single-family residence                  |
| NB02                           | RNB02-05                | 1            | B   | 67                    | 66                     | 61.6                         | 64.2                         | 69.1                      | 7.5      | Yes                      | No                              | Single-family residence                  |
| NB02                           | RNB02-06                | 1            | B   | 67                    | 66                     | 58.7                         | 61.7                         | 65.9                      | 7.2      | No                       | No                              | Horse Creek at Crosswinds residence      |
| NB02                           | RNB02-07                | 1            | B   | 67                    | 66                     | 55.6                         | 58.6                         | 63.5                      | 7.9      | No                       | No                              | Horse Creek at Crosswinds residence      |
| NB02                           | RNB02-08                | 1            | B   | 67                    | 66                     | 53.0                         | 56.1                         | 61.7                      | 8.7      | No                       | No                              | Single-family residence                  |
| NB02                           | RNB02-09                | 1            | B   | 67                    | 66                     | 65.0                         | 68.6                         | 71.3                      | 6.3      | Yes                      | No                              | Single-family residence                  |
| NB02                           | RNB02-10                | 1            | B   | 67                    | 66                     | 64.8                         | 68.4                         | 71.0                      | 6.2      | Yes                      | No                              | Single-family residence                  |
| NB02                           | RNB02-11                | 1            | B   | 67                    | 66                     | 64.0                         | 67.6                         | 70.0                      | 6.0      | Yes                      | No                              | Single-family residence                  |
| NB02                           | RNB02-12                | 1            | B   | 67                    | 66                     | 63.9                         | 67.5                         | 70.4                      | 6.5      | Yes                      | No                              | Single-family residence                  |
| NB02                           | RNB02-13                | 1            | B   | 67                    | 66                     | 63.6                         | 67.2                         | 70.4                      | 6.8      | Yes                      | No                              | Single-family residence                  |
| NB02                           | RNB02-14                | 1            | B   | 67                    | 66                     | 62.8                         | 66.4                         | 70.1                      | 7.3      | Yes                      | No                              | Single-family residence                  |
| NB02                           | RNB02-15                | 8            | B   | 67                    | 66                     | 64.5                         | 68.1                         | 72.0                      | 7.5      | Yes                      | No                              | Temples Crossing residence               |
| NB02                           | RNB02-16                | 1            | B   | 67                    | 66                     | 53.5                         | 56.9                         | 62.0                      | 8.5      | No                       | No                              | Temples Crossing residence               |
| NB02                           | RNB02-17                | 1            | B   | 67                    | 66                     | 53.7                         | 57.2                         | 62.8                      | 9.1      | No                       | No                              | Temples Crossing residence               |
| NB02                           | RNB02-18                | 1            | B   | 67                    | 66                     | 51.3                         | 54.8                         | 61.5                      | 10.2     | No                       | No                              | Temples Crossing residence               |
| NB02                           | RNB02-19                | 1            | B   | 67                    | 66                     | 51.1                         | 54.6                         | 61.3                      | 10.2     | No                       | No                              | Temples Crossing residence               |
| NB02                           | RNB02-20                | 9            | B   | 67                    | 66                     | 50.9                         | 54.3                         | 61.1                      | 10.2     | No                       | No                              | Temples Crossing residence               |
| NB02                           | RNB02-21                | 8            | B   | 67                    | 66                     | 50.9                         | 54.3                         | 61.1                      | 10.2     | No                       | No                              | Temples Crossing residence               |
| NB02                           | RNB02-22                | 7            | B   | 67                    | 66                     | 52.5                         | 56.0                         | 62.7                      | 10.2     | No                       | No                              | Temples Crossing residence               |
| NB02                           | RNB02-23                | 4            | B   | 67                    | 66                     | 53.7                         | 57.2                         | 63.3                      | 9.6      | No                       | No                              | Temples Crossing residence               |
| NB02                           | RNB02-24                | 1            | B   | 67                    | 66                     | 53.9                         | 57.4                         | 63.1                      | 9.2      | No                       | No                              | Temples Crossing residence               |
| NB02                           | RNB02-25                | 1            | B   | 67                    | 66                     | 55.1                         | 58.7                         | 64.1                      | 9.0      | No                       | No                              | Temples Crossing residence               |
| NB02                           | RNB02-26                | 1            | B   | 67                    | 66                     | 54.7                         | 58.2                         | 63.6                      | 8.9      | No                       | No                              | Temples Crossing residence               |
| NB02                           | RNB02-27                | 1            | B   | 67                    | 66                     | 54.3                         | 57.8                         | 63.3                      | 9.0      | No                       | No                              | Temples Crossing residence               |
| NB02                           | RNB02-28                | 1            | B   | 67                    | 66                     | 53.9                         | 57.4                         | 62.8                      | 8.9      | No                       | No                              | Temples Crossing residence               |
| NB02                           | RNB02-29                | 1            | B   | 67                    | 66                     | 53.5                         | 57.0                         | 62.4                      | 8.9      | No                       | No                              | Temples Crossing residence               |
| NB02                           | RNB02-30                | 1            | B   | 67                    | 66                     | 52.7                         | 56.6                         | 61.4                      | 8.7      | No                       | No                              | Temples Crossing residence               |
| NB02                           | RNB02-31                | 1            | B   | 67                    | 66                     | 52.1                         | 55.6                         | 60.9                      | 8.8      | No                       | No                              | Temples Crossing residence               |
| NB03                           | RNB03-01                | 1            | B   | 67                    | 66                     | 62.5                         | 67.4                         | 69.7                      | 7.2      | Yes                      | No                              | Single-family residence                  |
| NB03                           | RNB03-02                | 1            | B   | 67                    | 66                     | 59.8                         | 64.5                         | 65.0                      | 5.2      | No                       | No                              | Single-family residence                  |
| NB03                           | RNB03-03                | 1            | B   | 67                    | 66                     | 49.8                         | 54.0                         | 55.7                      | 5.9      | No                       | No                              | Kissimmee South MH & RV Resort residence |
| NB03                           | RNB03-04                | 1            | B   | 67                    | 66                     | 50.3                         | 54.6                         | 56.2                      | 5.9      | No                       | No                              | Kissimmee South MH & RV Resort residence |
| NB03                           | RNB03-05                | 1            | B   | 67                    | 66                     | 51.7                         | 56.0                         | 57.1                      | 5.4      | No                       | No                              | Kissimmee South MH & RV Resort residence |
| NB03                           | RNB03-06                | 1            | B   | 67                    | 66                     | 54.2                         | 58.8                         | 59.5                      | 5.3      | No                       | No                              | Kissimmee South MH & RV Resort residence |
| NB03                           | RNB03-07                | 1            | B   | 67                    | 66                     | 59.5                         | 64.2                         | 64.2                      | 4.7      | No                       | No                              | Kissimmee South MH & RV Resort residence |
| NB03                           | RNB03-08                | 14           | B   | 67                    | 66                     | 61.8                         | 66.6                         | 66.1                      | 4.3      | Yes                      | No                              | Kissimmee South MH & RV Resort residence |
| NB03                           | RNB03-09                | 4            | B   | 67                    | 66                     | 54.7                         | 59.3                         | 59.8                      | 5.1      | No                       | No                              | Kissimmee South MH & RV Resort residence |
| NB03                           | RNB03-10                | 5            | B   | 67                    | 66                     | 52.2                         | 56.6                         | 58.2                      | 6.0      | No                       | No                              | Kissimmee South MH & RV Resort residence |
| NB03                           | RNB03-11                | 3            | B   | 67                    | 66                     | 52.5                         | 56.9                         | 58.2                      | 5.7      | No                       | No                              | Kissimmee South MH & RV Resort residence |
| NB03                           | RNB03-12                | 7            | B   | 67                    | 66                     | 50.2                         | 54.4                         | 56.8                      | 6.6      | No                       | No                              | Kissimmee South MH & RV Resort residence |
| NB03                           | RNB03-13                | 1            | B   | 67                    | 66                     | 52.5                         | 56.8                         | 58.9                      | 6.4      | No                       | No                              | Kissimmee South MH & RV Resort residence |
| NB03                           | RNB03-14                | 1            | B   | 67                    | 66                     | 53.1                         | 57.4                         | 59.6                      | 6.5      | No                       | No                              | Kissimmee South MH & RV Resort residence |
| NB03                           | RNB03-15                | 1            | B   | 67                    | 66                     | 54.1                         | 58.6                         | 60.5                      | 6.4      | No                       | No                              | Kissimmee South MH & RV Resort residence |
| NB03                           | RNB03-16                | 1            | B   | 67                    | 66                     | 56.8                         | 61.4                         | 62.7                      | 5.9      | No                       | No                              | Kissimmee South MH & RV Resort residence |
| NB03                           | RNB03-17                | 5            | B   | 67                    | 66                     | 61.1                         | 65.9                         | 66.6                      | 5.5      | Yes                      | No                              | Kissimmee South MH & RV Resort residence |
| NB04                           | RNB04-01 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 56.4                         | 56.5                         | 62.0                      | 5.6      | No                       | No                              | Single-family residence                  |
| NB04                           | RNB04-02 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 56.4                         | 55.3                         | 58.4                      | 2.0      | No                       | No                              | Single-family residence                  |
| NB04                           | RNB04-03 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 54.9                         | 58.4                         | 60.3                      | 5.4      | No                       | No                              | Single-family residence                  |
| NB04                           | RNB04-04 <sup>1</sup>   | 3            | B   | 67                    | 66                     | 61.8                         | 66.4                         | 68.8                      | 7.0      | Yes                      | No                              | Single-family residence                  |
| NB04                           | RNB04-05 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 60.1                         | 64.6                         | 65.9                      | 5.8      | No                       | No                              | Single-family residence                  |
| NB04                           | RNB04-06 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 64.4                         | 69.1                         | 70.6                      | 6.2      | Yes                      | No                              | Single-family residence                  |
| NB04                           | RNB04-07 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 55.5                         | 55.5                         | 63.4                      | 7.9      | No                       | No                              | Single-family residence                  |
| NB04                           | RNB04-08 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 55.5                         | 55.5                         | 63.6                      | 8.1      | No                       | No                              | Single-family residence                  |
| NB04                           | RNB04-09 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 54.6                         | 54.7                         | 62.7                      | 8.1      | No                       | No                              | Single-family residence                  |
| NB04                           | RNB04-10 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 54.6                         | 54.8                         | 61.5                      | 6.9      | No                       | No                              | Single-family residence                  |
| NB04                           | RNB04-11 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 53.8                         | 54.2                         | 61.1                      | 7.3      | No                       | No                              | Single-family residence                  |
| NB04                           | RNB04-12 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 53.6                         | 56.0                         | 59.4                      | 5.8      | No                       | No                              | Single-family residence                  |
| NB04                           | RNB04-13 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 56.0                         | 59.8                         | 61.0                      | 5.0      | No                       | No                              | Single-family residence                  |
| NB04                           | RNB04-14 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 60.3                         | 64.8                         | 65.3                      | 5.0      | No                       | No                              | Single-family residence                  |
| NB04                           | RNB04-15 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 55.5                         | 55.5                         | 64.6                      | 9.1      | No                       | No                              | Single-family residence                  |
| NB05                           | RNB05-01                | 1            | B   | 67                    | 66                     | 47.8                         | 50.3                         | 59.1                      | 11.3     | No                       | No                              | Providence residence                     |
| NB05                           | RNB05-02                | 1            | B   | 67                    | 66                     | 47.1                         | 49.6                         | 61.9                      | 14.8     | No                       | No                              | Providence residence                     |

Predicted Noise Levels

Appendix B-1

| Common Noise Environment (CNE) | Receptor Point          | No. of Units | NAC | NAC Criterion (dB(A)) | FDOT Criterion (dB(A)) | 2024 Existing LAeq1h (dB(A)) | 2050 No-Build LAeq1h (dB(A)) | 2050 Build LAeq1h (dB(A)) | Increase | NAC Approach or Exceeded | Substantial Increase (≥15dB(A)) | Description             |
|--------------------------------|-------------------------|--------------|-----|-----------------------|------------------------|------------------------------|------------------------------|---------------------------|----------|--------------------------|---------------------------------|-------------------------|
| NB05                           | RNB05-03                | 1            | B   | 67                    | 66                     | 47.6                         | 50.1                         | 62.3                      | 14.7     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-04                | 1            | B   | 67                    | 66                     | 47.3                         | 49.7                         | 62.4                      | 15.1     | No                       | Yes                             | Providence residence    |
| NB05                           | RNB05-05                | 1            | B   | 67                    | 66                     | 46.4                         | 48.8                         | 61.4                      | 15.0     | No                       | Yes                             | Providence residence    |
| NB05                           | RNB05-06                | 1            | B   | 67                    | 66                     | 46.2                         | 48.7                         | 61.3                      | 15.1     | No                       | Yes                             | Providence residence    |
| NB05                           | RNB05-07                | 1            | B   | 67                    | 66                     | 46.0                         | 48.4                         | 61.0                      | 15.0     | No                       | Yes                             | Providence residence    |
| NB05                           | RNB05-08 <sup>2</sup>   | 1            | B   | 67                    | 66                     | 45.8                         | 48.1                         | 60.6                      | 14.8     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-09 <sup>2</sup>   | 1            | B   | 67                    | 66                     | 45.8                         | 47.8                         | 60.0                      | 14.2     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-10 <sup>2</sup>   | 1            | B   | 67                    | 66                     | 45.8                         | 47.7                         | 59.9                      | 14.1     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-11 <sup>2</sup>   | 1            | B   | 67                    | 66                     | 45.8                         | 47.4                         | 59.0                      | 13.2     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-12 <sup>2</sup>   | 1            | B   | 67                    | 66                     | 45.8                         | 47.0                         | 58.5                      | 12.7     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-13 <sup>2</sup>   | 1            | B   | 67                    | 66                     | 45.8                         | 46.9                         | 58.4                      | 12.6     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-14 <sup>2</sup>   | 1            | B   | 67                    | 66                     | 45.8                         | 47.0                         | 58.6                      | 12.8     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-15 <sup>2</sup>   | 1            | B   | 67                    | 66                     | 45.8                         | 47.5                         | 59.2                      | 13.4     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-16 <sup>2</sup>   | 1            | B   | 67                    | 66                     | 45.8                         | 48.1                         | 60.2                      | 14.4     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-17                | 1            | B   | 67                    | 66                     | 46.1                         | 48.5                         | 60.9                      | 14.8     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-18                | 1            | B   | 67                    | 66                     | 46.5                         | 48.9                         | 61.5                      | 15.0     | No                       | Yes                             | Providence residence    |
| NB05                           | RNB05-19                | 1            | B   | 67                    | 66                     | 46.6                         | 49.0                         | 61.8                      | 15.2     | No                       | Yes                             | Providence residence    |
| NB05                           | RNB05-20                | 1            | B   | 67                    | 66                     | 47.1                         | 49.5                         | 62.6                      | 15.5     | No                       | Yes                             | Providence residence    |
| NB05                           | RNB05-21                | 1            | B   | 67                    | 66                     | 47.4                         | 49.8                         | 63.3                      | 15.9     | No                       | Yes                             | Providence residence    |
| NB05                           | RNB05-22                | 1            | B   | 67                    | 66                     | 47.6                         | 50.0                         | 63.6                      | 16.0     | No                       | Yes                             | Providence residence    |
| NB05                           | RNB05-23                | 1            | B   | 67                    | 66                     | 47.8                         | 50.2                         | 63.9                      | 16.1     | No                       | Yes                             | Providence residence    |
| NB05                           | RNB05-24                | 1            | B   | 67                    | 66                     | 48.6                         | 51.0                         | 65.8                      | 17.2     | No                       | Yes                             | Providence residence    |
| NB05                           | RNB05-25                | 1            | B   | 67                    | 66                     | 49.1                         | 51.5                         | 66.8                      | 17.7     | Yes                      | Yes                             | Providence residence    |
| NB05                           | RNB05-26                | 1            | B   | 67                    | 66                     | 49.6                         | 52.0                         | 68.0                      | 18.4     | Yes                      | Yes                             | Providence residence    |
| NB05                           | RNB05-27                | 1            | B   | 67                    | 66                     | 50.0                         | 52.4                         | 69.0                      | 19.0     | Yes                      | Yes                             | Providence residence    |
| NB05                           | RNB05-28                | 1            | B   | 67                    | 66                     | 49.9                         | 52.3                         | 68.6                      | 18.7     | Yes                      | Yes                             | Providence residence    |
| NB05                           | RNB05-29                | 1            | B   | 67                    | 66                     | 49.5                         | 51.9                         | 67.5                      | 18.0     | Yes                      | Yes                             | Providence residence    |
| NB05                           | RNB05-30                | 1            | B   | 67                    | 66                     | 48.7                         | 51.0                         | 65.4                      | 16.7     | No                       | Yes                             | Providence residence    |
| NB05                           | RNB05-31                | 1            | B   | 67                    | 66                     | 48.4                         | 50.7                         | 64.6                      | 16.2     | No                       | Yes                             | Providence residence    |
| NB05                           | RNB05-32                | 1            | B   | 67                    | 66                     | 47.7                         | 49.9                         | 62.7                      | 15.0     | No                       | Yes                             | Providence residence    |
| NB05                           | RNB05-33                | 1            | B   | 67                    | 66                     | 46.7                         | 48.8                         | 60.7                      | 14.0     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-34 <sup>2</sup>   | 1            | B   | 67                    | 66                     | 45.8                         | 47.8                         | 59.9                      | 14.1     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-35 <sup>2</sup>   | 1            | B   | 67                    | 66                     | 45.8                         | 47.6                         | 59.5                      | 13.7     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-36                | 1            | B   | 67                    | 66                     | 46.5                         | 48.7                         | 61.2                      | 14.7     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-37                | 1            | B   | 67                    | 66                     | 47.7                         | 49.9                         | 61.7                      | 14.0     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-38                | 1            | B   | 67                    | 66                     | 48.0                         | 50.3                         | 62.2                      | 14.2     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-39                | 1            | B   | 67                    | 66                     | 47.5                         | 49.8                         | 61.3                      | 13.8     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-40                | 1            | B   | 67                    | 66                     | 47.0                         | 49.2                         | 60.9                      | 13.9     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-41                | 1            | B   | 67                    | 66                     | 46.8                         | 49.0                         | 60.4                      | 13.6     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-42                | 1            | B   | 67                    | 66                     | 46.5                         | 48.7                         | 60.0                      | 13.5     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-43                | 1            | B   | 67                    | 66                     | 46.3                         | 48.6                         | 59.8                      | 13.5     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-44 <sup>2</sup>   | 1            | B   | 67                    | 66                     | 45.8                         | 48.0                         | 59.6                      | 13.8     | No                       | No                              | Providence residence    |
| NB05                           | RNB05-45 <sup>2</sup>   | 1            | B   | 67                    | 66                     | 45.8                         | 47.6                         | 59.4                      | 13.6     | No                       | No                              | Providence residence    |
| NB06                           | RNB06-01                | 1            | B   | 67                    | 66                     | 59.2                         | 56.9                         | 62.5                      | 3.3      | No                       | No                              | Vista Mar residence     |
| NB06                           | RNB06-02                | 1            | B   | 67                    | 66                     | 59.5                         | 57.3                         | 63.2                      | 3.7      | No                       | No                              | Vista Mar residence     |
| NB06                           | RNB06-03                | 1            | B   | 67                    | 66                     | 59.6                         | 57.7                         | 64.4                      | 4.8      | No                       | No                              | Vista Mar residence     |
| NB06                           | RNB06-04                | 1            | B   | 67                    | 66                     | 58.9                         | 57.5                         | 65.0                      | 6.1      | No                       | No                              | Vista Mar residence     |
| NB06                           | RNB06-05                | 1            | B   | 67                    | 66                     | 57.8                         | 57.1                         | 65.2                      | 7.4      | No                       | No                              | Vista Mar residence     |
| NB06                           | RNB06-06                | 2            | B   | 67                    | 66                     | 55.9                         | 56.3                         | 64.8                      | 8.9      | No                       | No                              | Vista Mar residence     |
| NB06                           | RNB06-07                | 6            | B   | 67                    | 66                     | 54.3                         | 55.6                         | 64.5                      | 10.2     | No                       | No                              | Vista Mar residence     |
| NB06                           | RNB06-08                | 14           | B   | 67                    | 66                     | 51.2                         | 54.6                         | 65.2                      | 14.0     | No                       | No                              | Vista Mar residence     |
| NB06                           | RNB06-09                | 1            | B   | 67                    | 66                     | 50.1                         | 54.7                         | 67.1                      | 17.0     | Yes                      | Yes                             | Vista Mar residence     |
| NB06                           | RNB06-10                | 1            | B   | 67                    | 66                     | 49.7                         | 54.4                         | 66.5                      | 16.8     | Yes                      | Yes                             | Vista Mar residence     |
| NB06                           | RNB06-11                | 1            | B   | 67                    | 66                     | 49.6                         | 54.2                         | 66.2                      | 16.6     | Yes                      | Yes                             | Vista Mar residence     |
| NB06                           | RNB06-12                | 1            | B   | 67                    | 66                     | 49.1                         | 54.0                         | 66.1                      | 17.0     | Yes                      | Yes                             | Vista Mar residence     |
| NB06                           | RNB06-13                | 1            | B   | 67                    | 66                     | 48.6                         | 53.5                         | 65.5                      | 16.9     | No                       | Yes                             | Vista Mar residence     |
| NB06                           | RNB06-14                | 1            | B   | 67                    | 66                     | 48.5                         | 53.6                         | 65.8                      | 17.3     | No                       | Yes                             | Vista Mar residence     |
| NB06                           | RNB06-15                | 1            | B   | 67                    | 66                     | 48.2                         | 53.4                         | 65.4                      | 17.2     | No                       | Yes                             | Vista Mar residence     |
| NB06                           | RNB06-16                | 1            | B   | 67                    | 66                     | 47.8                         | 53.0                         | 64.7                      | 16.9     | No                       | Yes                             | Vista Mar residence     |
| NB06                           | RNB06-17                | 1            | B   | 67                    | 66                     | 47.1                         | 52.7                         | 64.2                      | 17.1     | No                       | Yes                             | Vista Mar residence     |
| NB06                           | RNB06-18                | 1            | B   | 67                    | 66                     | 47.0                         | 52.5                         | 63.8                      | 16.8     | No                       | Yes                             | Vista Mar residence     |
| NB06                           | RNB06-19                | 1            | B   | 67                    | 66                     | 46.4                         | 52.2                         | 63.3                      | 16.9     | No                       | Yes                             | Vista Mar residence     |
| NB06                           | RNB06-20                | 1            | B   | 67                    | 66                     | 54.9                         | 54.2                         | 61.8                      | 6.9      | No                       | No                              | Vista Mar residence     |
| NB06                           | RNB06-21                | 1            | B   | 67                    | 66                     | 55.4                         | 54.7                         | 62.4                      | 7.0      | No                       | No                              | Vista Mar residence     |
| NB06                           | RNB06-22                | 4            | B   | 67                    | 66                     | 53.8                         | 54.5                         | 62.7                      | 8.9      | No                       | No                              | Vista Mar residence     |
| NB06                           | RNB06-23                | 15           | B   | 67                    | 66                     | 50.6                         | 53.6                         | 63.1                      | 12.5     | No                       | No                              | Vista Mar residence     |
| NB06                           | RNB06-24                | 1            | B   | 67                    | 66                     | 48.0                         | 52.3                         | 63.0                      | 15.0     | No                       | Yes                             | Vista Mar residence     |
| NB06                           | RNB06-25                | 1            | B   | 67                    | 66                     | 47.6                         | 52.1                         | 62.0                      | 14.4     | No                       | No                              | Vista Mar residence     |
| NB06                           | RNB06-26                | 1            | B   | 67                    | 66                     | 47.3                         | 52.0                         | 61.8                      | 14.5     | No                       | No                              | Vista Mar residence     |
| NB06                           | RNB06-27                | 1            | B   | 67                    | 66                     | 47.2                         | 52.0                         | 62.6                      | 15.4     | No                       | Yes                             | Vista Mar residence     |
| NB06                           | RNB06-28                | 1            | B   | 67                    | 66                     | 46.5                         | 51.7                         | 62.0                      | 15.5     | No                       | Yes                             | Vista Mar residence     |
| NB06                           | RNB06-29                | 1            | B   | 67                    | 66                     | 46.0                         | 51.3                         | 61.2                      | 15.2     | No                       | Yes                             | Vista Mar residence     |
| NB06                           | RNB06-30                | 1            | B   | 67                    | 66                     | 45.6                         | 51.0                         | 60.7                      | 15.1     | No                       | Yes                             | Vista Mar residence     |
| NB06                           | RNB06-31                | 1            | B   | 67                    | 66                     | 54.4                         | 60.9                         | 66.7                      | 12.3     | Yes                      | No                              | US 17/92 residence      |
| NB06                           | RNB06-32                | 1            | B   | 67                    | 66                     | 59.0                         | 65.8                         | 69.1                      | 10.1     | Yes                      | No                              | US 17/92 residence      |
| NB06                           | RNB06-33                | 1            | B   | 67                    | 66                     | 48.5                         | 58.1                         | 63.1                      | 14.6     | No                       | No                              | US 17/92 residence      |
| NB07                           | RNB07-01 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.7                         | 68.1                         | 67.9                      | 8.2      | Yes                      | No                              | Single-family residence |
| NB07                           | RNB07-02 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 61.0                         | 65.9                         | 66.6                      | 5.6      | Yes                      | No                              | Single-family residence |
| NB07                           | RNB07-03 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 63.1                         | 65.3                         | 68.9                      | 5.8      | Yes                      | No                              | Single-family residence |
| SB01                           | RSB01-01 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 64.1                         | 67.3                         | 69.2                      | 5.1      | Yes                      | No                              | Jamestown residence     |
| SB01                           | RSB01-02 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 60.8                         | 63.5                         | 65.8                      | 5.0      | No                       | No                              | Jamestown residence     |
| SB01                           | RSB01-03 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.3                         | 61.2                         | 63.5                      | 4.2      | No                       | No                              | Jamestown residence     |
| SB01                           | RSB01-04 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.2                         | 60.9                         | 62.8                      | 3.6      | No                       | No                              | Jamestown residence     |
| SB01                           | RSB01-05 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.8                         | 60.8                         | 62.2                      | 2.4      | No                       | No                              | Jamestown residence     |
| SB01                           | RSB01-06 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 60.1                         | 62.6                         | 65.1                      | 5.0      | No                       | No                              | Jamestown residence     |

| Common Noise Environment (CNE) | Receptor Point          | No. of Units | NAC | NAC Criterion (dB(A)) | FDOT Criterion (dB(A)) | 2024 Existing LAeq1h (dB(A)) | 2050 No-Build LAeq1h (dB(A)) | 2050 Build LAeq1h (dB(A)) | Increase | NAC Approach or Exceeded | Substantial Increase (≥15dB(A)) | Description                   |
|--------------------------------|-------------------------|--------------|-----|-----------------------|------------------------|------------------------------|------------------------------|---------------------------|----------|--------------------------|---------------------------------|-------------------------------|
| SB01                           | RSB01-07 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.5                         | 61.4                         | 64.1                      | 4.6      | No                       | No                              | Jamestown residence           |
| SB01                           | RSB01-08 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 58.9                         | 60.6                         | 63.0                      | 4.1      | No                       | No                              | Jamestown residence           |
| SB01                           | RSB01-09 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.3                         | 60.6                         | 62.6                      | 3.3      | No                       | No                              | Jamestown residence           |
| SB01                           | RSB01-10 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.2                         | 61.1                         | 63.7                      | 4.5      | No                       | No                              | Jamestown residence           |
| SB01                           | RSB01-11 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.2                         | 60.5                         | 62.6                      | 3.4      | No                       | No                              | Jamestown residence           |
| SB01                           | RSB01-12 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.7                         | 60.6                         | 62.1                      | 2.4      | No                       | No                              | Jamestown residence           |
| SB01                           | RSB01-13 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.0                         | 60.7                         | 63.4                      | 4.4      | No                       | No                              | Jamestown residence           |
| SB01                           | RSB01-14 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 58.6                         | 60.1                         | 62.7                      | 4.1      | No                       | No                              | Jamestown residence           |
| SB01                           | RSB01-15 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 58.9                         | 59.9                         | 61.8                      | 2.9      | No                       | No                              | Jamestown residence           |
| SB01                           | RSB01-16 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.6                         | 60.4                         | 62.1                      | 2.5      | No                       | No                              | Jamestown residence           |
| SB01                           | RSB01-17 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.5                         | 60.1                         | 61.7                      | 2.2      | No                       | No                              | Jamestown residence           |
| SB02                           | RSB02-01 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 63.7                         | 66.0                         | 72.9                      | 9.2      | Yes                      | No                              | Horse Creek Village residence |
| SB02                           | RSB02-02 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 62.2                         | 64.3                         | 70.5                      | 8.3      | Yes                      | No                              | Horse Creek Village residence |
| SB02                           | RSB02-03 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 60.8                         | 62.7                         | 68.3                      | 7.5      | Yes                      | No                              | Horse Creek Village residence |
| SB02                           | RSB02-04 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.6                         | 61.2                         | 66.8                      | 7.2      | Yes                      | No                              | Horse Creek Village residence |
| SB02                           | RSB02-05 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 57.9                         | 59.4                         | 64.9                      | 7.0      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-06 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 58.7                         | 59.8                         | 64.5                      | 5.8      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-07 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.0                         | 59.7                         | 63.7                      | 4.7      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-08 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.7                         | 60.2                         | 63.5                      | 3.8      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-09 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.6                         | 60.1                         | 63.3                      | 3.7      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-10 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 58.9                         | 59.7                         | 63.5                      | 4.6      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-11 <sup>1</sup>   | 2            | B   | 67                    | 66                     | 59.1                         | 59.9                         | 64.0                      | 4.9      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-12 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 58.7                         | 59.8                         | 64.5                      | 5.8      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-13 <sup>1</sup>   | 2            | B   | 67                    | 66                     | 59.3                         | 60.7                         | 65.6                      | 6.3      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-14 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 61.5                         | 63.4                         | 69.1                      | 7.6      | Yes                      | No                              | Horse Creek Village residence |
| SB02                           | RSB02-15 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 62.7                         | 64.9                         | 71.2                      | 8.5      | Yes                      | No                              | Horse Creek Village residence |
| SB02                           | RSB02-16 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 58.8                         | 59.9                         | 64.5                      | 5.7      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-17 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.2                         | 60.0                         | 64.0                      | 4.8      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-18 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.8                         | 60.3                         | 63.6                      | 3.8      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-19 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.4                         | 60.3                         | 64.3                      | 4.9      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-20 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.1                         | 59.9                         | 63.8                      | 4.7      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-21 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.7                         | 60.3                         | 63.5                      | 3.8      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-22 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 64.6                         | 66.9                         | 73.7                      | 9.1      | Yes                      | No                              | Horse Creek Village residence |
| SB02                           | RSB02-23 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 60.6                         | 62.5                         | 67.5                      | 6.9      | Yes                      | No                              | Horse Creek Village residence |
| SB02                           | RSB02-24 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.7                         | 60.3                         | 63.4                      | 3.7      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-25 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.2                         | 60.0                         | 63.8                      | 4.6      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-26 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 60.1                         | 61.9                         | 66.9                      | 6.8      | Yes                      | No                              | Horse Creek Village residence |
| SB02                           | RSB02-27 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 60.1                         | 61.7                         | 66.3                      | 6.2      | Yes                      | No                              | Horse Creek Village residence |
| SB02                           | RSB02-28 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.5                         | 60.9                         | 65.4                      | 5.9      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-29 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.5                         | 60.5                         | 64.3                      | 4.8      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-30 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.7                         | 60.3                         | 63.2                      | 3.5      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-31 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 64.0                         | 66.4                         | 72.1                      | 8.1      | Yes                      | No                              | Horse Creek Village residence |
| SB02                           | RSB02-32 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 61.7                         | 63.9                         | 68.9                      | 7.2      | Yes                      | No                              | Horse Creek Village residence |
| SB02                           | RSB02-33 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 60.1                         | 61.8                         | 66.3                      | 6.2      | Yes                      | No                              | Horse Creek Village residence |
| SB02                           | RSB02-34 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.9                         | 61.2                         | 65.1                      | 5.2      | No                       | No                              | Horse Creek Village residence |
| SB02                           | RSB02-35 <sup>1</sup>   | 3            | B   | 67                    | 66                     | 62.0                         | 64.7                         | 67.8                      | 5.8      | Yes                      | No                              | Shady Oaks MH Park residence  |
| SB02                           | RSB02-36 <sup>1</sup>   | 2            | B   | 67                    | 66                     | 60.0                         | 62.0                         | 65.2                      | 5.2      | No                       | No                              | Shady Oaks MH Park residence  |
| SB02                           | RSB02-37 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 60.6                         | 61.0                         | 64.5                      | 3.9      | No                       | No                              | Shady Oaks MH Park residence  |
| SB02                           | RSB02-38 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 60.0                         | 61.0                         | 63.5                      | 3.5      | No                       | No                              | Shady Oaks MH Park residence  |
| SB02                           | RSB02-39 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 65.5                         | 68.8                         | 71.6                      | 6.1      | Yes                      | No                              | Shady Oaks MH Park residence  |
| SB02                           | RSB02-40 <sup>1</sup>   | 3            | B   | 67                    | 66                     | 62.7                         | 65.6                         | 68.2                      | 5.5      | Yes                      | No                              | Shady Oaks MH Park residence  |
| SB02                           | RSB02-41 <sup>1</sup>   | 3            | B   | 67                    | 66                     | 61.1                         | 63.3                         | 66.4                      | 5.3      | Yes                      | No                              | Shady Oaks MH Park residence  |
| SB02                           | RSB02-42 <sup>1</sup>   | 3            | B   | 67                    | 66                     | 60.4                         | 62.6                         | 65.6                      | 5.2      | No                       | No                              | Shady Oaks MH Park residence  |
| SB02                           | RSB02-43 <sup>1</sup>   | 2            | B   | 67                    | 66                     | 65.3                         | 61.6                         | 64.3                      | -1.0     | No                       | No                              | Shady Oaks MH Park residence  |
| SB02                           | RSB02-44 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 65.0                         | 68.0                         | 71.7                      | 6.7      | Yes                      | No                              | Shady Oaks MH Park residence  |
| SB02                           | RSB02-45 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 63.2                         | 66.1                         | 69.3                      | 6.1      | Yes                      | No                              | Shady Oaks MH Park residence  |
| SB02                           | RSB02-46 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 61.7                         | 64.3                         | 67.8                      | 6.1      | Yes                      | No                              | Shady Oaks MH Park residence  |
| SB02                           | RSB02-47 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 61.4                         | 63.9                         | 66.7                      | 5.3      | Yes                      | No                              | Shady Oaks MH Park residence  |
| SB04                           | RSB04-01 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 65.1                         | 65.1                         | 66.6                      | 1.5      | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-02 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 64.1                         | 64.1                         | 65.8                      | 1.7      | No                       | No                              | Preservation Pointe residence |
| SB04                           | RSB04-03 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.7                      | 0.7      | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-04 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.7                      | 0.7      | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-05 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.5                      | 0.5      | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-06 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.5                      | 0.5      | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-07 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.5                      | 0.5      | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-08 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.5                      | 0.5      | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-09 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.4                      | 0.4      | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-10 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.4                      | 0.4      | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-11 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.4                      | 0.4      | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-12 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.4                      | 0.4      | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-13 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.4                      | 0.4      | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-14 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.4                      | 0.4      | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-15 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.4                      | 0.4      | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-16 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.4                      | 0.4      | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-17 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.4                      | 0.4      | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-18 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 68.5                      | -1.5     | Yes                      | No                              | Preservation Pointe residence |
| SB04                           | RSB04-19 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.2                      | 0.2      | Yes                      | No                              | Williams Preserve residence   |
| SB04                           | RSB04-20 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.2                      | 0.2      | Yes                      | No                              | Williams Preserve residence   |

## Predicted Noise Levels

## Appendix B-1

| Common Noise Environment (CNE) | Receptor Point          | No. of Units | NAC | NAC Criterion (dB(A)) | FDOT Criterion (dB(A)) | 2024 Existing LAeq1h (dB(A)) | 2050 No-Build LAeq1h (dB(A)) | 2050 Build LAeq1h (dB(A)) | Increase | NAC Approach or Exceeded | Substantial Increase (≥15dB(A)) | Description                      |
|--------------------------------|-------------------------|--------------|-----|-----------------------|------------------------|------------------------------|------------------------------|---------------------------|----------|--------------------------|---------------------------------|----------------------------------|
| SB04                           | RSB04-21 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.2                      | 0.2      | Yes                      | No                              | Williams Preserve residence      |
| SB04                           | RSB04-22 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.2                      | 0.2      | Yes                      | No                              | Williams Preserve residence      |
| SB04                           | RSB04-23 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.2                      | 0.2      | Yes                      | No                              | Williams Preserve residence      |
| SB04                           | RSB04-24 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 70.0                         | 70.0                         | 70.2                      | 0.2      | Yes                      | No                              | Williams Preserve residence      |
| SB05                           | RSB05-01                | 1            | B   | 67                    | 66                     | 63.4                         | 65.8                         | 68.5                      | 5.1      | Yes                      | No                              | Aviana residence                 |
| SB05                           | RSB05-02                | 1            | B   | 67                    | 66                     | 60.0                         | 62.5                         | 67.0                      | 7.0      | Yes                      | No                              | Aviana residence                 |
| SB05                           | RSB05-03                | 1            | B   | 67                    | 66                     | 58.2                         | 60.6                         | 66.3                      | 8.1      | Yes                      | No                              | Aviana residence                 |
| SB05                           | RSB05-04                | 1            | B   | 67                    | 66                     | 53.1                         | 55.6                         | 64.6                      | 11.5     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-05                | 1            | B   | 67                    | 66                     | 52.2                         | 54.7                         | 64.1                      | 11.9     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-06                | 1            | B   | 67                    | 66                     | 51.0                         | 53.5                         | 63.4                      | 12.4     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-07                | 1            | B   | 67                    | 66                     | 49.8                         | 52.3                         | 62.7                      | 12.9     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-08                | 1            | B   | 67                    | 66                     | 52.2                         | 54.7                         | 63.9                      | 11.7     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-09                | 1            | B   | 67                    | 66                     | 51.3                         | 53.8                         | 63.5                      | 12.2     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-10                | 1            | B   | 67                    | 66                     | 50.8                         | 53.3                         | 63.2                      | 12.4     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-11                | 1            | B   | 67                    | 66                     | 50.2                         | 52.7                         | 63.0                      | 12.8     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-12                | 1            | B   | 67                    | 66                     | 49.4                         | 51.9                         | 62.8                      | 13.4     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-13                | 1            | B   | 67                    | 66                     | 52.7                         | 55.2                         | 64.3                      | 11.6     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-14                | 1            | B   | 67                    | 66                     | 52.1                         | 54.6                         | 64.3                      | 12.2     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-15                | 1            | B   | 67                    | 66                     | 51.6                         | 54.1                         | 64.2                      | 12.6     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-16                | 1            | B   | 67                    | 66                     | 51.0                         | 53.5                         | 63.7                      | 12.7     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-17                | 1            | B   | 67                    | 66                     | 50.5                         | 53.0                         | 63.0                      | 12.5     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-18                | 1            | B   | 67                    | 66                     | 50.0                         | 52.5                         | 62.5                      | 12.5     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-19                | 1            | B   | 67                    | 66                     | 49.5                         | 52.0                         | 62.1                      | 12.6     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-20                | 1            | B   | 67                    | 66                     | 53.2                         | 55.7                         | 62.3                      | 9.1      | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-21                | 1            | B   | 67                    | 66                     | 55.3                         | 57.8                         | 64.9                      | 9.6      | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-22                | 1            | B   | 67                    | 66                     | 56.0                         | 58.5                         | 65.3                      | 9.3      | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-23                | 8            | B   | 67                    | 66                     | 63.8                         | 66.2                         | 68.2                      | 4.4      | Yes                      | No                              | Aviana residence                 |
| SB05                           | RSB05-24                | 1            | B   | 67                    | 66                     | 57.3                         | 59.8                         | 64.3                      | 7.0      | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-25                | 1            | B   | 67                    | 66                     | 47.7                         | 50.2                         | 60.9                      | 13.2     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-26                | 1            | B   | 67                    | 66                     | 47.0                         | 49.5                         | 60.6                      | 13.6     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-27                | 1            | B   | 67                    | 66                     | 46.5                         | 49.0                         | 59.7                      | 13.2     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-28                | 1            | B   | 67                    | 66                     | 45.9                         | 48.4                         | 58.3                      | 12.4     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-29                | 1            | B   | 67                    | 66                     | 45.3                         | 47.8                         | 57.7                      | 12.4     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-30                | 1            | B   | 67                    | 66                     | 49.6                         | 52.1                         | 62.7                      | 13.1     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-31                | 1            | B   | 67                    | 66                     | 48.7                         | 51.2                         | 60.9                      | 12.2     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-32                | 1            | B   | 67                    | 66                     | 47.0                         | 49.5                         | 59.0                      | 12.0     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-33                | 1            | B   | 67                    | 66                     | 46.3                         | 48.8                         | 58.0                      | 11.7     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-34                | 1            | B   | 67                    | 66                     | 48.9                         | 51.4                         | 61.5                      | 12.6     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-35                | 1            | B   | 67                    | 66                     | 48.5                         | 50.9                         | 61.0                      | 12.5     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-36                | 1            | B   | 67                    | 66                     | 48.0                         | 50.4                         | 60.4                      | 12.4     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-37                | 1            | B   | 67                    | 66                     | 47.6                         | 50.0                         | 59.9                      | 12.3     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-38                | 1            | B   | 67                    | 66                     | 47.2                         | 49.6                         | 59.5                      | 12.3     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-39                | 1            | B   | 67                    | 66                     | 46.7                         | 49.1                         | 58.9                      | 12.2     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-40                | 1            | B   | 67                    | 66                     | 46.3                         | 48.7                         | 58.5                      | 12.2     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-41                | 1            | B   | 67                    | 66                     | 49.7                         | 52.2                         | 60.0                      | 10.3     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-42                | 1            | B   | 67                    | 66                     | 49.7                         | 52.2                         | 60.1                      | 10.4     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-43                | 1            | B   | 67                    | 66                     | 49.5                         | 51.9                         | 59.8                      | 10.3     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-44                | 1            | B   | 67                    | 66                     | 49.6                         | 52.0                         | 59.8                      | 10.2     | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-45                | 1            | B   | 67                    | 66                     | 49.5                         | 52.0                         | 59.3                      | 9.8      | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-46                | 1            | B   | 67                    | 66                     | 49.9                         | 52.4                         | 59.6                      | 9.7      | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-47                | 1            | B   | 67                    | 66                     | 50.6                         | 53.0                         | 60.2                      | 9.6      | No                       | No                              | Aviana residence                 |
| SB05                           | RSB05-48                | 4            | B   | 67                    | 66                     | 51.0                         | 53.4                         | 60.4                      | 9.4      | No                       | No                              | Aviana residence                 |
| SB06                           | RSB06-01a               | 6            | B   | 67                    | 66                     | 65.1                         | 67.5                         | 68.4                      | 3.3      | Yes                      | No                              | Pointe Grand Apts 1st floor unit |
| SB06                           | RSB06-01b               | 6            | B   | 67                    | 66                     | 67.9                         | 70.2                         | 71.6                      | 3.7      | Yes                      | No                              | Pointe Grand Apts 2nd floor unit |
| SB06                           | RSB06-01c               | 6            | B   | 67                    | 66                     | 67.6                         | 70.0                         | 72.6                      | 5.0      | Yes                      | No                              | Pointe Grand Apts 3rd floor unit |
| SB06                           | RSB06-02a               | 6            | B   | 67                    | 66                     | 68.0                         | 69.7                         | 70.4                      | 2.4      | Yes                      | No                              | Pointe Grand Apts 1st floor unit |
| SB06                           | RSB06-02b               | 6            | B   | 67                    | 66                     | 70.2                         | 71.8                         | 72.4                      | 2.2      | Yes                      | No                              | Pointe Grand Apts 2nd floor unit |
| SB06                           | RSB06-02c               | 6            | B   | 67                    | 66                     | 70.0                         | 71.5                         | 73.7                      | 3.7      | Yes                      | No                              | Pointe Grand Apts 3rd floor unit |
| SB06                           | RSB06-03a               | 2            | B   | 67                    | 66                     | 51.5                         | 53.8                         | 55.0                      | 3.5      | No                       | No                              | Pointe Grand Apts 1st floor unit |
| SB06                           | RSB06-03b               | 2            | B   | 67                    | 66                     | 54.9                         | 57.2                         | 58.5                      | 3.6      | No                       | No                              | Pointe Grand Apts 2nd floor unit |
| SB06                           | RSB06-03c               | 2            | B   | 67                    | 66                     | 55.7                         | 57.9                         | 59.9                      | 4.2      | No                       | No                              | Pointe Grand Apts 3rd floor unit |
| SB06                           | RSB06-04a               | 2            | B   | 67                    | 66                     | 54.9                         | 55.9                         | 56.1                      | 1.2      | No                       | No                              | Pointe Grand Apts 1st floor unit |
| SB06                           | RSB06-04b               | 2            | B   | 67                    | 66                     | 58.9                         | 59.1                         | 59.4                      | 0.5      | No                       | No                              | Pointe Grand Apts 2nd floor unit |
| SB06                           | RSB06-04c               | 2            | B   | 67                    | 66                     | 60.1                         | 60.5                         | 61.0                      | 0.9      | No                       | No                              | Pointe Grand Apts 3rd floor unit |
| SB06                           | RSB06-05a               | 1            | B   | 67                    | 66                     | 49.6                         | 50.9                         | 56.9                      | 7.3      | No                       | No                              | Pointe Grand Apts 1st floor unit |
| SB06                           | RSB06-05b               | 1            | B   | 67                    | 66                     | 53.3                         | 54.6                         | 58.9                      | 5.6      | No                       | No                              | Pointe Grand Apts 2nd floor unit |
| SB06                           | RSB06-05c               | 1            | B   | 67                    | 66                     | 55.1                         | 56.4                         | 61.5                      | 6.4      | No                       | No                              | Pointe Grand Apts 3rd floor unit |
| SB06                           | RSB06-06a               | 1            | B   | 67                    | 66                     | 58.6                         | 59.6                         | 63.3                      | 4.7      | No                       | No                              | Pointe Grand Apts 1st floor unit |
| SB06                           | RSB06-06b               | 1            | B   | 67                    | 66                     | 62.3                         | 63.0                         | 66.2                      | 3.9      | Yes                      | No                              | Pointe Grand Apts 2nd floor unit |
| SB06                           | RSB06-06c               | 1            | B   | 67                    | 66                     | 63.7                         | 64.4                         | 67.9                      | 4.2      | Yes                      | No                              | Pointe Grand Apts 3rd floor unit |
| SB06                           | RSB06-07a               | 1            | B   | 67                    | 66                     | 57.9                         | 58.9                         | 62.7                      | 4.8      | No                       | No                              | Pointe Grand Apts 1st floor unit |
| SB06                           | RSB06-07b               | 1            | B   | 67                    | 66                     | 61.5                         | 62.1                         | 65.4                      | 3.9      | No                       | No                              | Pointe Grand Apts 2nd floor unit |
| SB06                           | RSB06-07c               | 1            | B   | 67                    | 66                     | 62.9                         | 63.5                         | 66.9                      | 4.0      | Yes                      | No                              | Pointe Grand Apts 3rd floor unit |
| SB06                           | RSB06-08a               | 1            | B   | 67                    | 66                     | 57.5                         | 58.5                         | 62.3                      | 4.8      | No                       | No                              | Pointe Grand Apts 1st floor unit |
| SB06                           | RSB06-08b               | 1            | B   | 67                    | 66                     | 61.1                         | 61.6                         | 64.9                      | 3.8      | No                       | No                              | Pointe Grand Apts 2nd floor unit |
| SB06                           | RSB06-08c               | 1            | B   | 67                    | 66                     | 62.5                         | 63.0                         | 66.4                      | 3.9      | Yes                      | No                              | Pointe Grand Apts 3rd floor unit |
| SB07                           | RSB07-01                | 1            | B   | 67                    | 66                     | 52.6                         | 56.7                         | 65.5                      | 12.9     | No                       | No                              | Single-family residence          |
| SB07                           | RSB07-02                | 1            | B   | 67                    | 66                     | 53.8                         | 58.5                         | 66.3                      | 12.5     | Yes                      | No                              | Single-family residence          |
| SB07                           | RSB07-03                | 1            | B   | 67                    | 66                     | 49.6                         | 56.3                         | 65.3                      | 15.7     | No                       | Yes                             | Single-family residence          |
| SB08                           | RSB08-01 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 52.3                         | 57.4                         | 67.0                      | 14.7     | Yes                      | No                              | Single-family residence          |
| SB08                           | RSB08-02 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 52.2                         | 57.3                         | 66.4                      | 14.2     | Yes                      | No                              | Single-family residence          |
| SB08                           | RSB08-03 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 52.8                         | 57.5                         | 65.5                      | 12.7     | No                       | No                              | Single-family residence          |
| SB08                           | RSB08-04 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 53.9                         | 57.4                         | 64.0                      | 10.1     | No                       | No                              | Single-family residence          |
| SB08                           | RSB08-05 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 54.5                         | 57.7                         | 63.9                      | 9.4      | No                       | No                              | Single-family residence          |
| SB08                           | RSB08-06 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 54.0                         | 57.1                         | 63.4                      | 9.4      | No                       | No                              | Single-family residence          |



## Predicted Noise Levels

| Common Noise Environment (CNE) | Receptor Point          | No. of Units | NAC | NAC Criterion (dB(A)) | FDOT Criterion (dB(A)) | 2024 Existing LAeq1h (dB(A)) | 2050 No-Build LAeq1h (dB(A)) | 2050 Build LAeq1h (dB(A)) | Increase | NAC Approach or Exceeded | Substantial Increase (≥15dB(A)) | Description             |
|--------------------------------|-------------------------|--------------|-----|-----------------------|------------------------|------------------------------|------------------------------|---------------------------|----------|--------------------------|---------------------------------|-------------------------|
| SB08                           | RSB08-07 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.5                         | 61.2                         | 65.5                      | 6.0      | No                       | No                              | Single-family residence |
| SB08                           | RSB08-08 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 55.5                         | 57.9                         | 64.1                      | 8.6      | No                       | No                              | Single-family residence |
| SB08                           | RSB08-09 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.7                         | 61.5                         | 66.2                      | 6.5      | Yes                      | No                              | Single-family residence |
| SB08                           | RSB08-10 <sup>1</sup>   | 1            | B   | 67                    | 66                     | 59.8                         | 62.0                         | 66.5                      | 6.7      | Yes                      | No                              | Single-family residence |
| SB08                           | RSB08-11 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 60.2                         | 61.9                         | 67.1                      | 6.9      | Yes                      | No                              | Single-family residence |
| SB08                           | RSB08-12 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 63.1                         | 64.8                         | 67.1                      | 4.0      | Yes                      | No                              | Single-family residence |
| SB08                           | RSB08-13 <sup>1,2</sup> | 1            | B   | 67                    | 66                     | 62.1                         | 64.3                         | 67.2                      | 5.1      | Yes                      | No                              | Single-family residence |

Notes:

<sup>1</sup> Receptor is influenced by both roadway and railroad noise.

<sup>2</sup> Ambient field measurement average applied for existing condition noise level.



## **Appendix B-2: SLU Properties Predicted Noise Levels**

## Predicted Noise Levels

## Appendix B-2

| Common Noise Environment (CNE) | Receptor Point          | No. of Units | NAC | NAC Criterion (dB(A)) | FDOT Criterion (dB(A)) | 2024 Existing LAeq1h (dB(A)) | 2050 No-Build LAeq1h (dB(A)) | 2050 Build LAeq1h (dB(A)) | Increase | NAC Approach or Exceeded | Substantial Increase (≥15dB(A)) | Description                          |
|--------------------------------|-------------------------|--------------|-----|-----------------------|------------------------|------------------------------|------------------------------|---------------------------|----------|--------------------------|---------------------------------|--------------------------------------|
| XX.X                           | Impacted Receptor       |              |     |                       |                        |                              |                              |                           |          |                          |                                 |                                      |
| NB01                           | NNB01-01                | 1            | C   | 67.0                  | 66.0                   | 58.0                         | 61.6                         | 63.7                      | 5.7      | No                       | No                              | Powerhouse Church of God in Christ   |
| NB02                           | NNB02-01                | 1            | C   | 67.0                  | 66.0                   | 50.8                         | 54.2                         | 58.9                      | 8.1      | No                       | No                              | Temples Crossing playground          |
| NB05                           | NNB05-01                | 1            | C   | 67.0                  | 66.0                   | 55.8                         | 54.4                         | 61.5                      | 5.7      | No                       | No                              | Kinney Harmon Cemetery               |
| SB01                           | NSB01-01 <sup>1</sup>   | 1            | C   | 67.0                  | 66.0                   | 61.7                         | 64.7                         | 66.6                      | 4.9      | Yes                      | No                              | Mt. Calvary MB Church                |
| SB01                           | NSB01-02 <sup>1</sup>   | 1            | C   | 67.0                  | 66.0                   | 64.7                         | 67.9                         | 70.9                      | 6.2      | Yes                      | No                              | Jamestown Park BB Courts             |
| SB01                           | NSB01-02.2 <sup>1</sup> | 1            | C   | 67.0                  | 66.0                   | 64.7                         | 64.8                         | 66.7                      | 2.0      | Yes                      | No                              | Jamestown Park playground            |
| SB01                           | NSB01-03 <sup>1</sup>   | 1            | C   | 67.0                  | 66.0                   | 61.8                         | 64.8                         | 67.7                      | 5.9      | Yes                      | No                              | Church of God by Faith               |
| SB01                           | NSB01-04 <sup>1</sup>   | 1            | C   | 67.0                  | 66.0                   | 60.0                         | 62.6                         | 66.1                      | 6.1      | Yes                      | No                              | St. Mark AME Church                  |
| SB01                           | NSB01-05 <sup>1</sup>   | 1            | C   | 67.0                  | 66.0                   | 58.3                         | 59.6                         | 62.3                      | 4.0      | No                       | No                              | Friendship Missionary Baptist Church |
| SB02                           | NSB02-01 <sup>1</sup>   | 1            | C   | 67.0                  | 66.0                   | 61.7                         | 63.6                         | 69.0                      | 7.3      | Yes                      | No                              | Horse Creek Village pool             |
| SB02                           | NSB02-02 <sup>1</sup>   | 1            | C   | 67.0                  | 66.0                   | 62.1                         | 64.2                         | 69.5                      | 7.4      | Yes                      | No                              | Horse Creek Village BB court         |
| SB07                           | NSB07-01                | 1            | C   | 67.0                  | 66.0                   | 43.2                         | 53.6                         | 61.4                      | 18.2     | No                       | Yes                             | The Learning Experience Preschool    |
| SB07                           | NSB07-02                | 1            | C   | 67.0                  | 66.0                   | 59.4                         | 62.7                         | 67.1                      | 7.7      | Yes                      | No                              | Casa De Israel Yarah Church          |
| SB08                           | NSB08-01 <sup>1</sup>   | 1            | C   | 67.0                  | 66.0                   | 60.6                         | 60.5                         | 64.2                      | 3.6      | No                       | No                              | Neighborhood basketball court        |
| SB08                           | NSB08-02 <sup>1</sup>   | 1            | C   | 67.0                  | 66.0                   | 59.2                         | 59.1                         | 65.0                      | 5.8      | No                       | No                              | Church of God & Pillar of Zion       |
| SB08                           | NSB08-03 <sup>1,2</sup> | 1            | C   | 67.0                  | 66.0                   | 58.4                         | 58.3                         | 64.5                      | 6.1      | No                       | No                              | Antioch Missionary Baptist Church    |

Notes:

<sup>1</sup> Receptor is influenced by both roadway and railroad noise.

<sup>2</sup> Ambient field measurement average applied for existing condition noise level.

# **Appendix C**

## **Decibel Addition with Contributing Rail Noise**

| Receptor Point              | CSX Rail Noise Leq (dB) <sup>1</sup> | 2024 Existing Leq(dB(A))                   |                      | 2050 No-Build Leq(dB(A))   |                      | 2050 Build Leq(dB(A))      |                      |
|-----------------------------|--------------------------------------|--------------------------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|
|                             |                                      | Roadway Noise <sup>2</sup><br>(See Note 1) | Decibel Addition Sum | Roadway Noise <sup>2</sup> | Decibel Addition Sum | Roadway Noise <sup>2</sup> | Decibel Addition Sum |
| Residential Noise Receptors |                                      |                                            |                      |                            |                      |                            |                      |
| RNB04-01                    | 56.0                                 | 45.8                                       | 56.4                 | 46.8                       | 56.5                 | 60.8                       | 62.0                 |
| RNB04-02                    | 54.0                                 | 45.8                                       | 56.4                 | 49.5                       | 55.3                 | 56.5                       | 58.4                 |
| RNB04-03                    | 51.0                                 | 52.7                                       | 54.9                 | 57.1                       | 58.4                 | 59.8                       | 60.3                 |
| RNB04-04                    | 50.0                                 | 61.5                                       | 61.8                 | 66.3                       | 66.4                 | 68.7                       | 68.8                 |
| RNB04-05                    | 50.0                                 | 59.7                                       | 60.1                 | 64.4                       | 64.6                 | 65.8                       | 65.9                 |
| RNB04-06                    | 50.0                                 | 64.2                                       | 64.4                 | 69.0                       | 69.1                 | 70.6                       | 70.6                 |
| RNB04-07                    | 55.0                                 | 45.8                                       | 55.5                 | 45.9                       | 55.5                 | 62.7                       | 63.4                 |
| RNB04-08                    | 55.0                                 | 45.8                                       | 55.5                 | 45.7                       | 55.5                 | 63.0                       | 63.6                 |
| RNB04-09                    | 54.0                                 | 45.8                                       | 54.6                 | 46.4                       | 54.7                 | 62.1                       | 62.7                 |
| RNB04-10                    | 54.0                                 | 45.8                                       | 54.6                 | 47.2                       | 54.8                 | 60.7                       | 61.5                 |
| RNB04-11                    | 53.0                                 | 45.8                                       | 53.8                 | 47.9                       | 54.2                 | 60.4                       | 61.1                 |
| RNB04-12                    | 51.0                                 | 50.1                                       | 53.6                 | 54.4                       | 56.0                 | 58.7                       | 59.4                 |
| RNB04-13                    | 50.0                                 | 54.7                                       | 56.0                 | 59.3                       | 59.8                 | 60.6                       | 61.0                 |
| RNB04-14                    | 50.0                                 | 59.9                                       | 60.3                 | 64.7                       | 64.8                 | 65.2                       | 65.3                 |
| RNB04-15                    | 55.0                                 | 45.8                                       | 55.5                 | 45.8                       | 55.5                 | 64.1                       | 64.6                 |
| RNB07-01                    | 54.0                                 | 58.4                                       | 59.7                 | 67.9                       | 68.1                 | 67.7                       | 67.9                 |
| RNB07-02                    | 55.0                                 | 59.8                                       | 61.0                 | 65.6                       | 65.9                 | 66.3                       | 66.6                 |
| RNB07-03                    | 63.0                                 | 45.8                                       | 63.1                 | 61.5                       | 65.3                 | 67.6                       | 68.9                 |
| RSB01-01                    | 56.0                                 | 63.4                                       | 64.1                 | 67.0                       | 67.3                 | 69.0                       | 69.2                 |
| RSB01-02                    | 56.0                                 | 59.1                                       | 60.8                 | 62.6                       | 63.5                 | 65.3                       | 65.8                 |
| RSB01-03                    | 57.0                                 | 55.5                                       | 59.3                 | 59.1                       | 61.2                 | 62.4                       | 63.5                 |
| RSB01-04                    | 58.0                                 | 54.2                                       | 59.2                 | 57.8                       | 60.9                 | 61.1                       | 62.8                 |
| RSB01-05                    | 59.0                                 | 52.3                                       | 59.8                 | 56.0                       | 60.8                 | 59.3                       | 62.2                 |
| RSB01-06                    | 56.0                                 | 57.9                                       | 60.1                 | 61.5                       | 62.6                 | 64.5                       | 65.1                 |
| RSB01-07                    | 57.0                                 | 55.8                                       | 59.5                 | 59.4                       | 61.4                 | 63.1                       | 64.1                 |
| RSB01-08                    | 57.0                                 | 54.4                                       | 58.9                 | 58.1                       | 60.6                 | 61.8                       | 63.0                 |
| RSB01-09                    | 58.0                                 | 53.4                                       | 59.3                 | 57.1                       | 60.6                 | 60.7                       | 62.6                 |
| RSB01-10                    | 57.0                                 | 55.3                                       | 59.2                 | 58.9                       | 61.1                 | 62.7                       | 63.7                 |
| RSB01-11                    | 58.0                                 | 53.2                                       | 59.2                 | 56.8                       | 60.5                 | 60.7                       | 62.6                 |
| RSB01-12                    | 59.0                                 | 51.7                                       | 59.7                 | 55.4                       | 60.6                 | 59.1                       | 62.1                 |
| RSB01-13                    | 57.0                                 | 54.6                                       | 59.0                 | 58.3                       | 60.7                 | 62.3                       | 63.4                 |
| RSB01-14                    | 57.0                                 | 53.6                                       | 58.6                 | 57.2                       | 60.1                 | 61.3                       | 62.7                 |
| RSB01-15                    | 58.0                                 | 51.7                                       | 58.9                 | 55.4                       | 59.9                 | 59.4                       | 61.8                 |
| RSB01-16                    | 59.0                                 | 51.0                                       | 59.6                 | 54.7                       | 60.4                 | 59.1                       | 62.1                 |
| RSB01-17                    | 59.0                                 | 49.9                                       | 59.5                 | 53.7                       | 60.1                 | 58.4                       | 61.7                 |
| RSB02-01                    | 55.0                                 | 63.1                                       | 63.7                 | 65.6                       | 66.0                 | 72.8                       | 72.9                 |
| RSB02-02                    | 55.0                                 | 61.3                                       | 62.2                 | 63.8                       | 64.3                 | 70.4                       | 70.5                 |
| RSB02-03                    | 56.0                                 | 59.1                                       | 60.8                 | 61.6                       | 62.7                 | 68.0                       | 68.3                 |
| RSB02-04                    | 56.0                                 | 57.1                                       | 59.6                 | 59.7                       | 61.2                 | 66.4                       | 66.8                 |
| RSB02-05                    | 55.0                                 | 54.7                                       | 57.9                 | 57.4                       | 59.4                 | 64.4                       | 64.9                 |
| RSB02-06                    | 57.0                                 | 53.8                                       | 58.7                 | 56.6                       | 59.8                 | 63.7                       | 64.5                 |
| RSB02-07                    | 58.0                                 | 52.1                                       | 59.0                 | 54.9                       | 59.7                 | 62.3                       | 63.7                 |
| RSB02-08                    | 59.0                                 | 51.3                                       | 59.7                 | 54.2                       | 60.2                 | 61.6                       | 63.5                 |
| RSB02-09                    | 59.0                                 | 51.0                                       | 59.6                 | 53.8                       | 60.1                 | 61.3                       | 63.3                 |
| RSB02-10                    | 58.0                                 | 51.8                                       | 58.9                 | 54.7                       | 59.7                 | 62.0                       | 63.5                 |
| RSB02-11                    | 58.0                                 | 52.7                                       | 59.1                 | 55.4                       | 59.9                 | 62.7                       | 64.0                 |
| RSB02-12                    | 57.0                                 | 53.9                                       | 58.7                 | 56.6                       | 59.8                 | 63.7                       | 64.5                 |

| Receptor Point              | CSX Rail Noise Leq (dB) <sup>1</sup> | 2024 Existing Leq(dB(A))                   |                      | 2050 No-Build Leq(dB(A))   |                      | 2050 Build Leq(dB(A))      |                      |
|-----------------------------|--------------------------------------|--------------------------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|
|                             |                                      | Roadway Noise <sup>2</sup><br>(See Note 1) | Decibel Addition Sum | Roadway Noise <sup>2</sup> | Decibel Addition Sum | Roadway Noise <sup>2</sup> | Decibel Addition Sum |
| Residential Noise Receptors |                                      |                                            |                      |                            |                      |                            |                      |
| RSB02-13                    | 57.0                                 | 55.5                                       | 59.3                 | 58.2                       | 60.7                 | 65.0                       | 65.6                 |
| RSB02-14                    | 56.0                                 | 60.0                                       | 61.5                 | 62.5                       | 63.4                 | 68.9                       | 69.1                 |
| RSB02-15                    | 55.0                                 | 61.9                                       | 62.7                 | 64.4                       | 64.9                 | 71.1                       | 71.2                 |
| RSB02-16                    | 57.0                                 | 54.1                                       | 58.8                 | 56.8                       | 59.9                 | 63.7                       | 64.5                 |
| RSB02-17                    | 58.0                                 | 52.9                                       | 59.2                 | 55.7                       | 60.0                 | 62.8                       | 64.0                 |
| RSB02-18                    | 59.0                                 | 51.8                                       | 59.8                 | 54.6                       | 60.3                 | 61.8                       | 63.6                 |
| RSB02-19                    | 58.0                                 | 53.8                                       | 59.4                 | 56.5                       | 60.3                 | 63.2                       | 64.3                 |
| RSB02-20                    | 58.0                                 | 52.7                                       | 59.1                 | 55.5                       | 59.9                 | 62.5                       | 63.8                 |
| RSB02-21                    | 59.0                                 | 51.7                                       | 59.7                 | 54.5                       | 60.3                 | 61.6                       | 63.5                 |
| RSB02-22                    | 55.0                                 | 64.1                                       | 64.6                 | 66.6                       | 66.9                 | 73.6                       | 73.7                 |
| RSB02-23                    | 56.0                                 | 58.8                                       | 60.6                 | 61.4                       | 62.5                 | 67.2                       | 67.5                 |
| RSB02-24                    | 59.0                                 | 51.7                                       | 59.7                 | 54.6                       | 60.3                 | 61.5                       | 63.4                 |
| RSB02-25                    | 58.0                                 | 52.9                                       | 59.2                 | 55.8                       | 60.0                 | 62.5                       | 63.8                 |
| RSB02-26                    | 56.0                                 | 57.9                                       | 60.1                 | 60.6                       | 61.9                 | 66.5                       | 66.9                 |
| RSB02-27                    | 57.0                                 | 57.1                                       | 60.1                 | 59.9                       | 61.7                 | 65.8                       | 66.3                 |
| RSB02-28                    | 57.0                                 | 55.8                                       | 59.5                 | 58.7                       | 60.9                 | 64.7                       | 65.4                 |
| RSB02-29                    | 58.0                                 | 54.1                                       | 59.5                 | 57.0                       | 60.5                 | 63.2                       | 64.3                 |
| RSB02-30                    | 59.0                                 | 51.5                                       | 59.7                 | 54.4                       | 60.3                 | 61.1                       | 63.2                 |
| RSB02-31                    | 55.0                                 | 63.4                                       | 64.0                 | 66.1                       | 66.4                 | 72.0                       | 72.1                 |
| RSB02-32                    | 56.0                                 | 60.4                                       | 61.7                 | 63.1                       | 63.9                 | 68.7                       | 68.9                 |
| RSB02-33                    | 57.0                                 | 57.2                                       | 60.1                 | 60.1                       | 61.8                 | 65.8                       | 66.3                 |
| RSB02-34                    | 58.0                                 | 55.4                                       | 59.9                 | 58.4                       | 61.2                 | 64.1                       | 65.1                 |
| RSB02-35                    | 56.0                                 | 60.7                                       | 62.0                 | 64.1                       | 64.7                 | 67.5                       | 67.8                 |
| RSB02-36                    | 57.0                                 | 57.0                                       | 60.0                 | 60.4                       | 62.0                 | 64.5                       | 65.2                 |
| RSB02-37                    | 59.0                                 | 55.2                                       | 60.6                 | 58.6                       | 61.0                 | 63.0                       | 64.5                 |
| RSB02-38                    | 59.0                                 | 53.3                                       | 60.0                 | 56.7                       | 61.0                 | 61.6                       | 63.5                 |
| RSB02-39                    | 56.0                                 | 65.0                                       | 65.5                 | 68.6                       | 68.8                 | 71.5                       | 71.6                 |
| RSB02-40                    | 56.0                                 | 61.6                                       | 62.7                 | 65.1                       | 65.6                 | 67.9                       | 68.2                 |
| RSB02-41                    | 57.0                                 | 59.0                                       | 61.1                 | 62.5                       | 63.3                 | 65.9                       | 66.4                 |
| RSB02-42                    | 57.0                                 | 57.7                                       | 60.4                 | 61.2                       | 62.6                 | 64.9                       | 65.6                 |
| RSB02-43                    | 58.0                                 | 55.6                                       | 65.3                 | 59.1                       | 61.6                 | 63.2                       | 64.3                 |
| RSB02-44                    | 56.0                                 | 64.4                                       | 65.0                 | 67.7                       | 68.0                 | 71.0                       | 71.7                 |
| RSB02-45                    | 56.0                                 | 62.3                                       | 63.2                 | 65.6                       | 66.1                 | 69.1                       | 69.3                 |
| RSB02-46                    | 56.0                                 | 60.3                                       | 61.7                 | 63.6                       | 64.3                 | 67.5                       | 67.8                 |
| RSB02-47                    | 57.0                                 | 59.4                                       | 61.4                 | 62.9                       | 63.9                 | 66.2                       | 66.7                 |
| RSB04-01                    | 65.0                                 | 45.8                                       | 65.1                 | 45.8                       | 65.1                 | 61.6                       | 66.6                 |
| RSB04-02                    | 64.0                                 | 45.8                                       | 64.1                 | 45.8                       | 64.1                 | 61.2                       | 65.8                 |
| RSB04-03                    | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 62.7                       | 70.7                 |
| RSB04-04                    | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 62.6                       | 70.7                 |
| RSB04-05                    | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 60.8                       | 70.5                 |
| RSB04-06                    | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 60.8                       | 70.5                 |
| RSB04-07                    | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 60.6                       | 70.5                 |
| RSB04-08                    | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 60.4                       | 70.5                 |
| RSB04-09                    | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 60.3                       | 70.4                 |
| RSB04-10                    | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 60.1                       | 70.4                 |
| RSB04-11                    | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 59.9                       | 70.4                 |
| RSB04-12                    | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 59.8                       | 70.4                 |

| Receptor Point                  | CSX Rail Noise Leq (dB) <sup>1</sup> | 2024 Existing Leq(dB(A))                   |                      | 2050 No-Build Leq(dB(A))   |                      | 2050 Build Leq(dB(A))      |                      |
|---------------------------------|--------------------------------------|--------------------------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|
|                                 |                                      | Roadway Noise <sup>2</sup><br>(See Note 1) | Decibel Addition Sum | Roadway Noise <sup>2</sup> | Decibel Addition Sum | Roadway Noise <sup>2</sup> | Decibel Addition Sum |
| Residential Noise Receptors     |                                      |                                            |                      |                            |                      |                            |                      |
| RSB04-13                        | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 59.6                       | 70.4                 |
| RSB04-14                        | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 59.7                       | 70.4                 |
| RSB04-15                        | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 59.6                       | 70.4                 |
| RSB04-16                        | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 59.4                       | 70.4                 |
| RSB04-17                        | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 59.5                       | 70.4                 |
| RSB04-18                        | 68.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 59.3                       | 68.5                 |
| RSB04-19                        | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 57.6                       | 70.2                 |
| RSB04-20                        | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 57.8                       | 70.2                 |
| RSB04-21                        | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 57.5                       | 70.2                 |
| RSB04-22                        | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 57.3                       | 70.2                 |
| RSB04-23                        | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 57.2                       | 70.2                 |
| RSB04-24                        | 70.0                                 | 45.8                                       | 70.0                 | 45.8                       | 70.0                 | 57.0                       | 70.2                 |
| RSB08-01                        | 49.0                                 | 49.6                                       | 52.3                 | 56.7                       | 57.4                 | 66.9                       | 67.0                 |
| RSB08-02                        | 49.0                                 | 49.4                                       | 52.2                 | 56.6                       | 57.3                 | 66.0                       | 66.4                 |
| RSB08-03                        | 50.0                                 | 49.5                                       | 52.8                 | 56.6                       | 57.5                 | 65.4                       | 65.5                 |
| RSB08-04                        | 50.0                                 | 51.6                                       | 53.9                 | 56.5                       | 57.4                 | 63.8                       | 64.0                 |
| RSB08-05                        | 50.0                                 | 52.6                                       | 54.5                 | 56.9                       | 57.7                 | 63.7                       | 63.9                 |
| RSB08-06                        | 50.0                                 | 51.8                                       | 54.0                 | 56.2                       | 57.1                 | 63.2                       | 63.4                 |
| RSB08-07                        | 51.0                                 | 58.8                                       | 59.5                 | 60.8                       | 61.2                 | 65.3                       | 65.5                 |
| RSB08-08                        | 52.0                                 | 53.0                                       | 55.5                 | 56.6                       | 57.9                 | 63.8                       | 64.1                 |
| RSB08-09                        | 52.0                                 | 58.9                                       | 59.7                 | 61.0                       | 61.5                 | 66.0                       | 66.2                 |
| RSB08-10                        | 54.0                                 | 58.5                                       | 59.8                 | 61.2                       | 62.0                 | 66.2                       | 66.5                 |
| RSB08-11                        | 60.0                                 | 45.8                                       | 60.2                 | 57.5                       | 61.9                 | 66.1                       | 67.1                 |
| RSB08-12                        | 63.0                                 | 45.8                                       | 63.1                 | 60.2                       | 64.8                 | 65.0                       | 67.1                 |
| RSB08-13                        | 62.0                                 | 45.8                                       | 62.1                 | 60.5                       | 64.3                 | 65.7                       | 67.2                 |
| Non-Residential Noise Receptors |                                      |                                            |                      |                            |                      |                            |                      |
| NSB01-01                        | 55.0                                 | 60.6                                       | 61.7                 | 64.2                       | 64.7                 | 66.3                       | 66.6                 |
| NSB01-02.1                      | 55.0                                 | 64.2                                       | 64.7                 | 67.7                       | 67.9                 | 70.8                       | 70.9                 |
| NSB01-02.2                      | 55.0                                 | 60.8                                       | 64.7                 | 64.3                       | 64.8                 | 66.4                       | 66.7                 |
| NSB01-03                        | 55.0                                 | 60.8                                       | 61.8                 | 64.3                       | 64.8                 | 67.5                       | 67.7                 |
| NSB01-04                        | 55.0                                 | 58.3                                       | 60.0                 | 61.8                       | 62.6                 | 65.8                       | 66.1                 |
| NSB01-05                        | 57.0                                 | 52.6                                       | 58.3                 | 56.2                       | 59.6                 | 60.8                       | 62.3                 |
| NSB02-01                        | 56.0                                 | 60.3                                       | 61.7                 | 62.8                       | 63.6                 | 68.8                       | 69.0                 |
| NSB02-02                        | 56.0                                 | 60.9                                       | 62.1                 | 63.5                       | 64.2                 | 69.3                       | 69.5                 |
| NSB08-01                        | 50.0                                 | 58.3                                       | 58.9                 | 60.2                       | 60.6                 | 64.2                       | 64.4                 |
| NSB08-02                        | 50.0                                 | 54.5                                       | 55.8                 | 58.6                       | 59.2                 | 65.0                       | 65.1                 |
| NSB08-03                        | 54.0                                 | 45.8                                       | 54.5                 | 56.4                       | 58.4                 | 64.5                       | 64.9                 |

<sup>1</sup> Results from the CREATE rail noise prediction model.

<sup>2</sup> Results from the FHWA TNM 2.5 traffic noise prediction model.

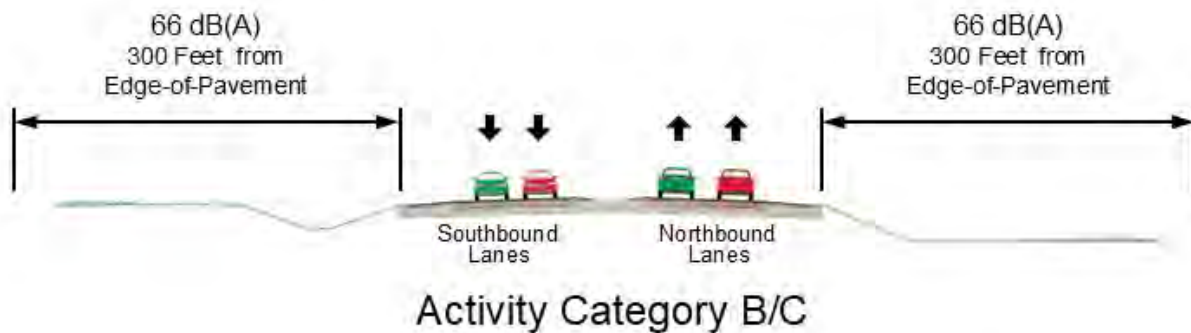
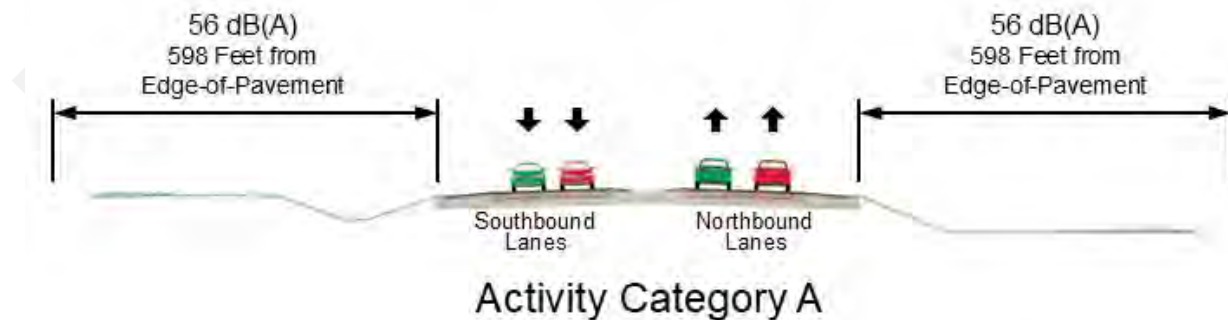
**Note 1:** Ambient field measurement average applied for existing condition noise level.

# **Appendix D**

## **Project Noise Contours**



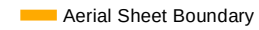
**Noise Contours \***  
**For Central Polk Parkway East**  
**From US 17/92 to Poinciana Connector (SR 528)**



\* Excludes potential railroad noise contribution

## **Appendix E**

### **Project Aerials**



***NOISE SPECIALIST***  
 Robbin Ossi, AICP  
 Environmental Transportation Planning, LLC  
 15202 NW 147th Drive, Suite 1200-175  
 Alachua, FL 32615  
 P 352.642.7774

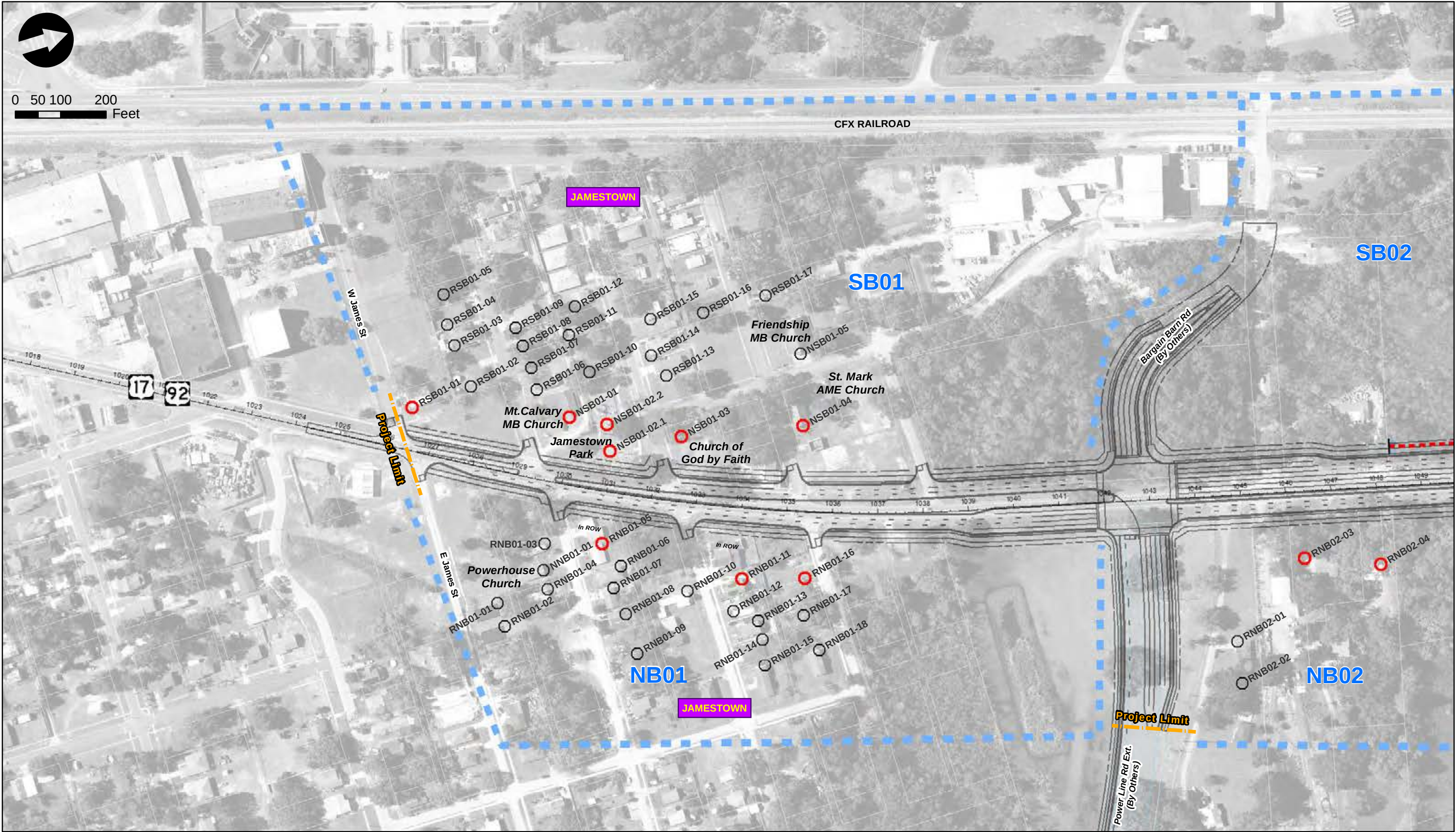
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### Key





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| <div><div></div>Proposed Improvement</div> <div><div></div>Proposed ROW</div> <div><div></div>Common Noise Environment</div> |  | <div><div></div>Potential New ROW Barrier</div> <div><div></div>Potential New Shoulder Barrier</div> <div><div></div>Existing Private Wall</div> | <div><div></div>Impacted - Benefited</div> <div><div></div>Impacted - Not Benefited</div> <div><div></div>Not Impacted - Benefited</div> <div><div></div>Not Impacted - Not Benefited</div> | <div><div></div>1st Floor Receptor</div> <div><div></div>2nd Floor Receptor</div> <div><div></div>3rd Floor Receptor</div> <div><div></div>Field Measured Point</div> | <div>NOISE SPECIALIST</div> <div>Robbin Ossi, AICP</div> <div>Environmental Transportation Planning, LLC</div> <div>15202 NW 147th Drive, Suite 1200-175</div> <div>Alachua, FL 32015</div> <div>P 352.642.7774</div> | <div>STATE OF FLORIDA</div> <div>DEPARTMENT OF TRANSPORTATION</div> <div>CPP-EAST</div> <div>POLK</div> <div>451419-1</div> |  |  | <div>PROJECT AERIALS</div> <div>Central Polk Parkway East from</div> <div>US 17/92 to the Future</div> <div>Poinciana Connector (SR 538)</div> |  | <div>Sheet</div> <div>No.</div> <div>1</div> |
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CFX RAILROAD

Potential noise barriers are based on PD&E phase concepts. Future refinements in the project design phase and known constraints such as overhead utilities, drainage, etc., could alter barrier system placement, dimensions, and access. Such changes could render noise barriers no longer constructible or not meet FDOT noise abatement criteria. Assuming barriers are still feasible and reasonable in the design phase, community input may be solicited to confirm support.

HORSE CREEK VILLAGE

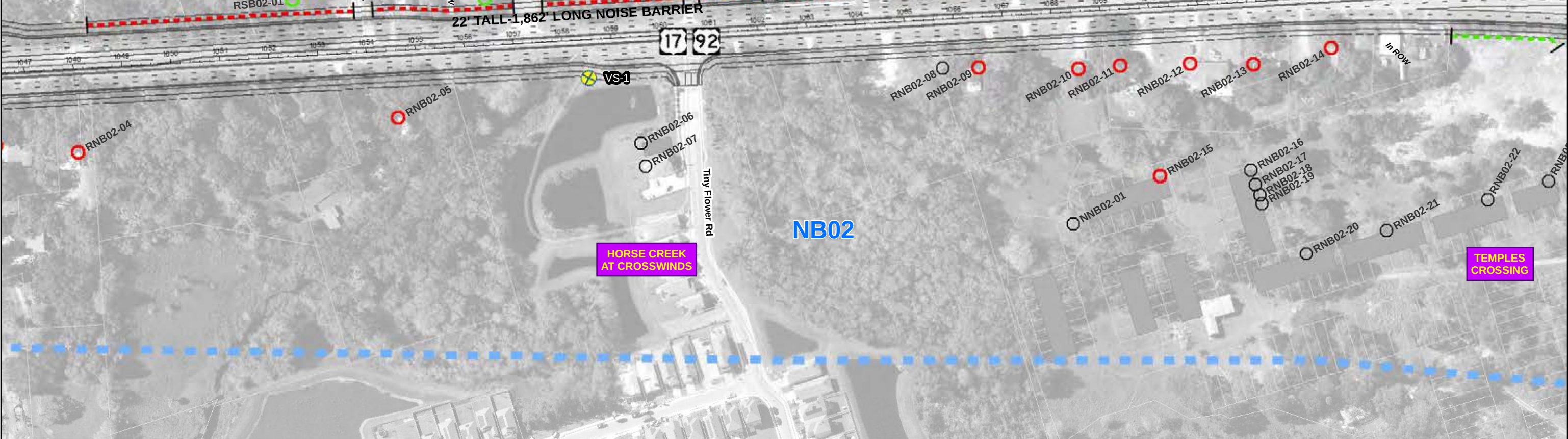
SHADY OAKS MH PARK

SB02

NB02

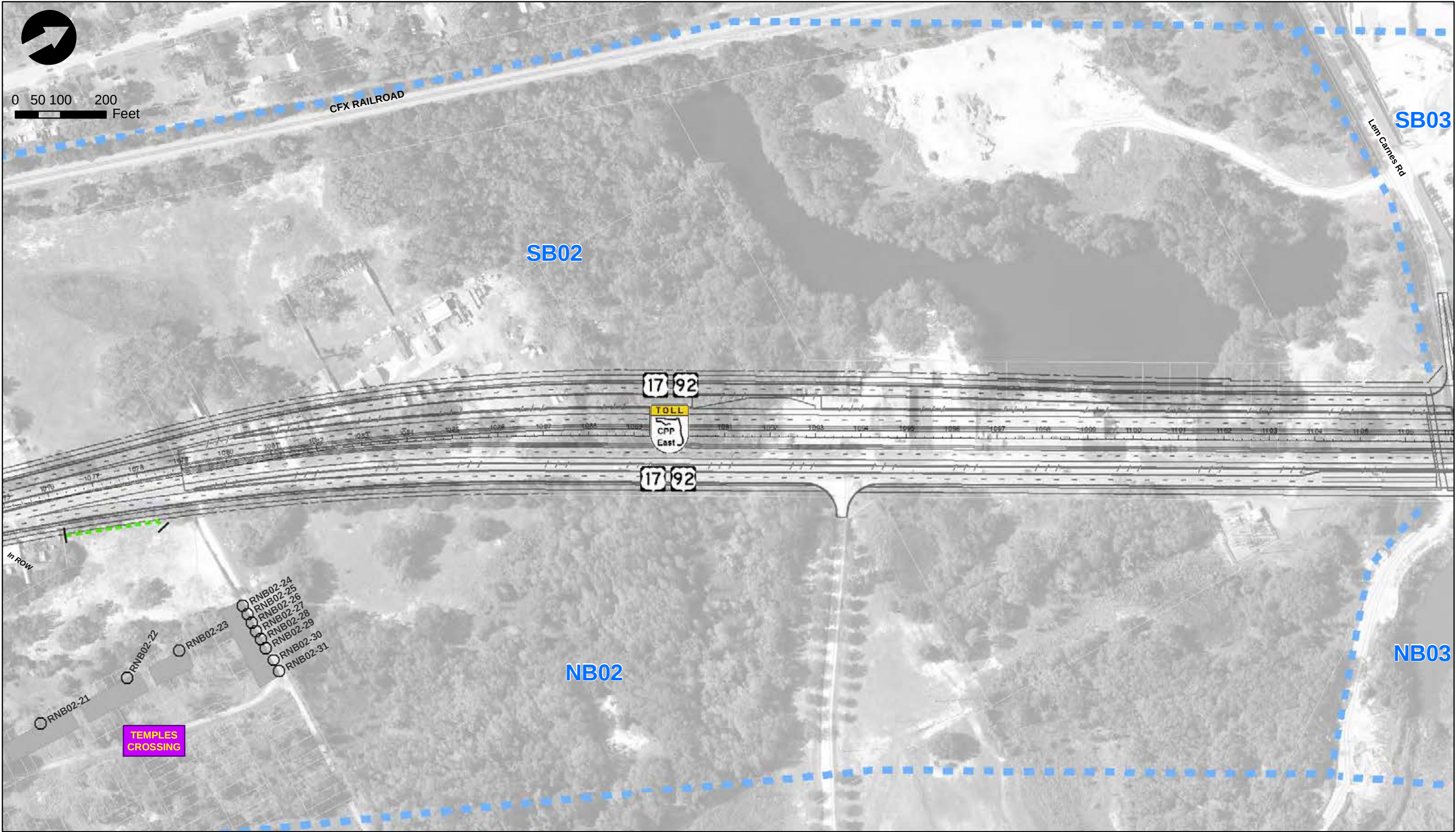
HORSE CREEK AT CROSSWINDS

TEMPLES CROSSING



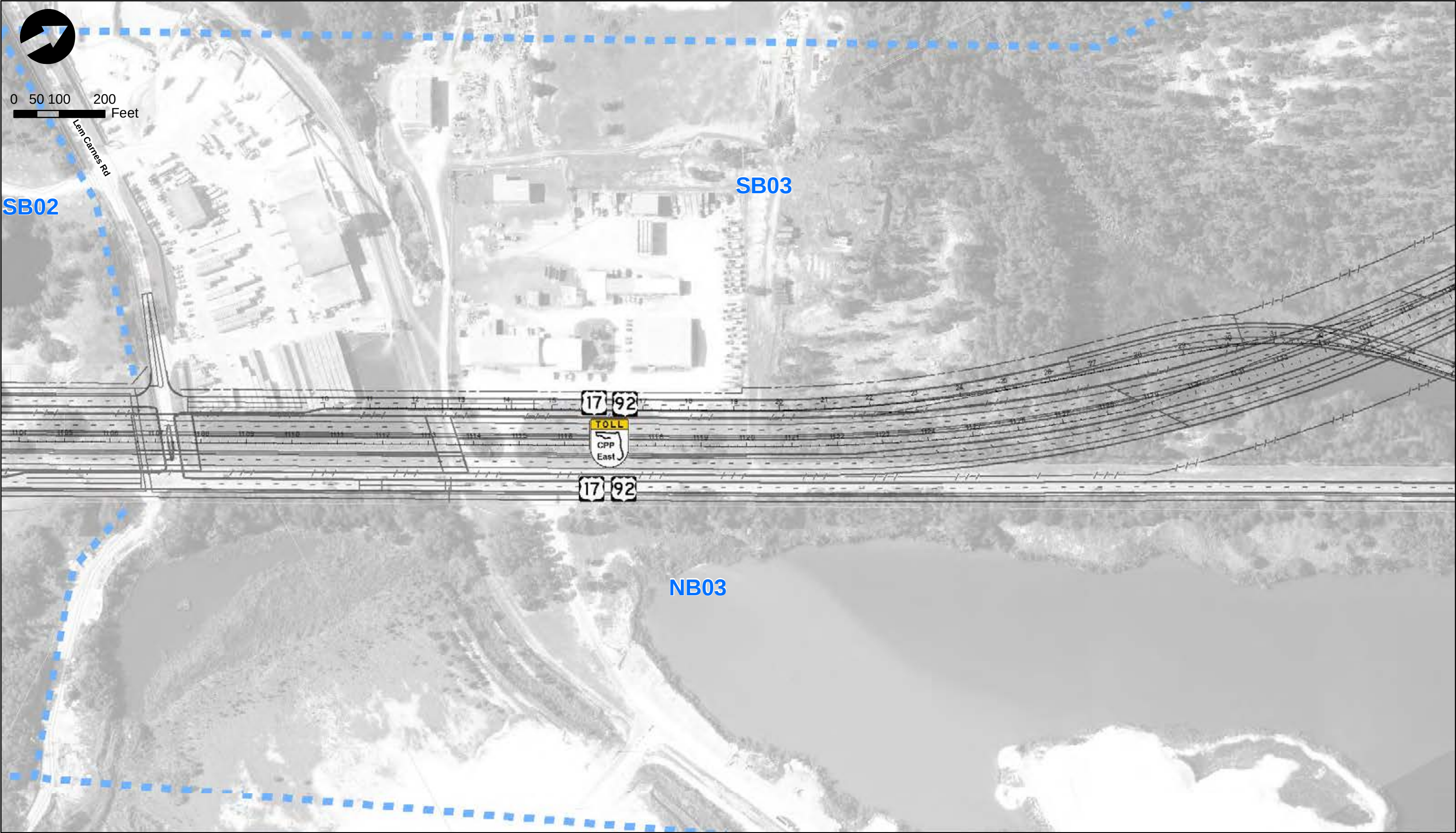
|                                                                                                                                 |  |                                                                                                                                                     |  |                                                                                                                                                                                                 |                                                                                                                                                                           |                                                                                                                                                                                           |                                                                                                                                      |  |  |                                                                                                                                  |  |                                       |
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| <div><div></div> Proposed Improvement</div> <div><div></div> Proposed ROW</div> <div><div></div> Common Noise Environment</div> |  | <div><div></div> Potential New ROW Barrier</div> <div><div></div> Potential New Shoulder Barrier</div> <div><div></div> Existing Private Wall</div> |  | <div><div></div> Impacted - Benefited</div> <div><div></div> Impacted - Not Benefited</div> <div><div></div> Not Impacted - Benefited</div> <div><div></div> Not Impacted - Not Benefited</div> | <div><div></div> 1st Floor Receptor</div> <div><div></div> 2nd Floor Receptor</div> <div><div></div> 3rd Floor Receptor</div> <div><div></div> Field Measured Point</div> | <div>NOISE SPECIALIST</div> <div>Robbin Ossi, AICP<br/>Environmental Transportation Planning, LLC<br/>15202 NW 147th Drive, Suite 1200-175<br/>Alachua, FL 32015<br/>P 352.642.7774</div> | <div>STATE OF FLORIDA</div> <div>DEPARTMENT OF TRANSPORTATION</div> <div><div>CPP-EAST</div><div>POLK</div><div>451419-1</div></div> |  |  | <div>PROJECT AERIALS</div> <div>Central Polk Parkway East from<br/>US 17/92 to the Future<br/>Poinciana Connector (SR 538)</div> |  | <div>Sheet<br/>No.</div> <div>2</div> |
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| <div><div><div></div><div>Proposed Improvement</div></div><div><div></div><div>Proposed ROW</div></div><div><div></div><div>Common Noise Environment</div></div></div> <div><div><div></div><div>Potential New ROW Barrier</div></div><div><div></div><div>Potential New Shoulder Barrier</div></div><div><div></div><div>Existing Private Wall</div></div></div> | <div><div><div></div><div>Impacted - Benefited</div></div><div><div></div><div>Impacted - Not Benefited</div></div><div><div></div><div>Not Impacted - Benefited</div></div><div><div></div><div>Not Impacted - Not Benefited</div></div></div> <div><div><div></div><div>1st Floor Receptor</div></div><div><div></div><div>2nd Floor Receptor</div></div><div><div></div><div>3rd Floor Receptor</div></div><div><div></div><div>Field Measured Point</div></div></div> | <div><div>NOISE SPECIALIST</div><div><div>Robbin Ossi, AICP</div><div>Environmental Transportation Planning, LLC</div><div>15202 NW 147th Drive, Suite 1200-175</div><div>Alachua, FL 32015</div><div>P 352.642.7774</div></div></div> <div><div>STATE OF FLORIDA</div><div>DEPARTMENT OF TRANSPORTATION</div><div><div>CPP-EAST</div><div>POLK</div><div>451419-1</div></div></div> | <div><div>PROJECT AERIALS</div><div>Central Polk Parkway East from</div><div>US 17/92 to the Future</div><div>Poinciana Connector (SR 538)</div></div> <div><div>Sheet No.</div><div>3</div></div> |
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| <div><div><div></div><div>Proposed Improvement</div></div><div><div></div><div>Proposed ROW</div></div><div><div></div><div>Common Noise Environment</div></div></div> <div><div><div></div><div>Potential New ROW Barrier</div></div><div><div></div><div>Potential New Shoulder Barrier</div></div><div><div></div><div>Existing Private Wall</div></div></div> | <div><div><div></div><div>Impacted - Benefited</div></div><div><div></div><div>Impacted - Not Benefited</div></div><div><div></div><div>Not Impacted - Benefited</div></div><div><div></div><div>Not Impacted - Not Benefited</div></div></div> <div><div><div></div><div>1st Floor Receptor</div></div><div><div></div><div>2nd Floor Receptor</div></div><div><div></div><div>3rd Floor Receptor</div></div><div><div></div><div>Field Measured Point</div></div></div> | <div>NOISE SPECIALIST</div> <div><div>Robbin Ossi, AICP</div><div>Environmental Transportation Planning, LLC</div><div>15202 NW 147th Drive, Suite 1200-175</div><div>Alachua, FL 32015</div><div>P 352.642.7774</div></div> | <div>STATE OF FLORIDA</div> <div>DEPARTMENT OF TRANSPORTATION</div> <div><div>CPP-EAST</div><div>POLK</div><div>451419-1</div></div> | <div>PROJECT AERIALS</div> <div>Central Polk Parkway East from</div> <div>US 17/92 to the Future</div> <div>Poinciana Connector (SR 538)</div> | <div>Sheet</div> <div>No.</div> <div>4</div> |
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| <div><div><div></div><div>Proposed Improvement</div></div><div><div></div><div>Proposed ROW</div></div><div><div></div><div>Common Noise Environment</div></div></div> <div><div><div></div><div>Potential New ROW Barrier</div></div><div><div></div><div>Potential New Shoulder Barrier</div></div><div><div></div><div>Existing Private Wall</div></div></div> | <div><div><div></div><div>Impacted - Benefited</div></div><div><div></div><div>Impacted - Not Benefited</div></div><div><div></div><div>Not Impacted - Benefited</div></div><div><div></div><div>Not Impacted - Not Benefited</div></div></div> <div><div><div></div><div>1st Floor Receptor</div></div><div><div></div><div>2nd Floor Receptor</div></div><div><div></div><div>3rd Floor Receptor</div></div><div><div></div><div>Field Measured Point</div></div></div> | <div>NOISE SPECIALIST</div> <div>Robbin Ossi, AICP<br/>Environmental Transportation Planning, LLC<br/>15202 NW 147th Drive, Suite 1200-175<br/>Alachua, FL 32015<br/>P 352.642.7774</div> | <div>STATE OF FLORIDA</div> <div>DEPARTMENT OF TRANSPORTATION</div> <div><div>CPP-EAST</div><div>POLK</div><div>451419-1</div></div> | <div>PROJECT AERIALS</div> <div>Central Polk Parkway East from<br/>US 17/92 to the Future<br/>Poinciana Connector (SR 538)</div> | <div>Sheet<br/>No.</div> <div>5</div> |
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Feet

SB04

CFX RAILROAD



NB04

RNB04-07

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RNB04-10

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Sunny  
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NOISE SPECIALIST

Robbin Ossi, AICP  
Environmental Transportation Planning, LLC  
15202 NW 147th Drive, Suite 1200-175  
Alachua, FL 32015  
P 352.642.7774

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

CPP-EAST

POLK

451419-1

PROJECT AERIALS  
Central Polk Parkway East from  
US 17/92 to the Future  
Poinciana Connector (SR 538)

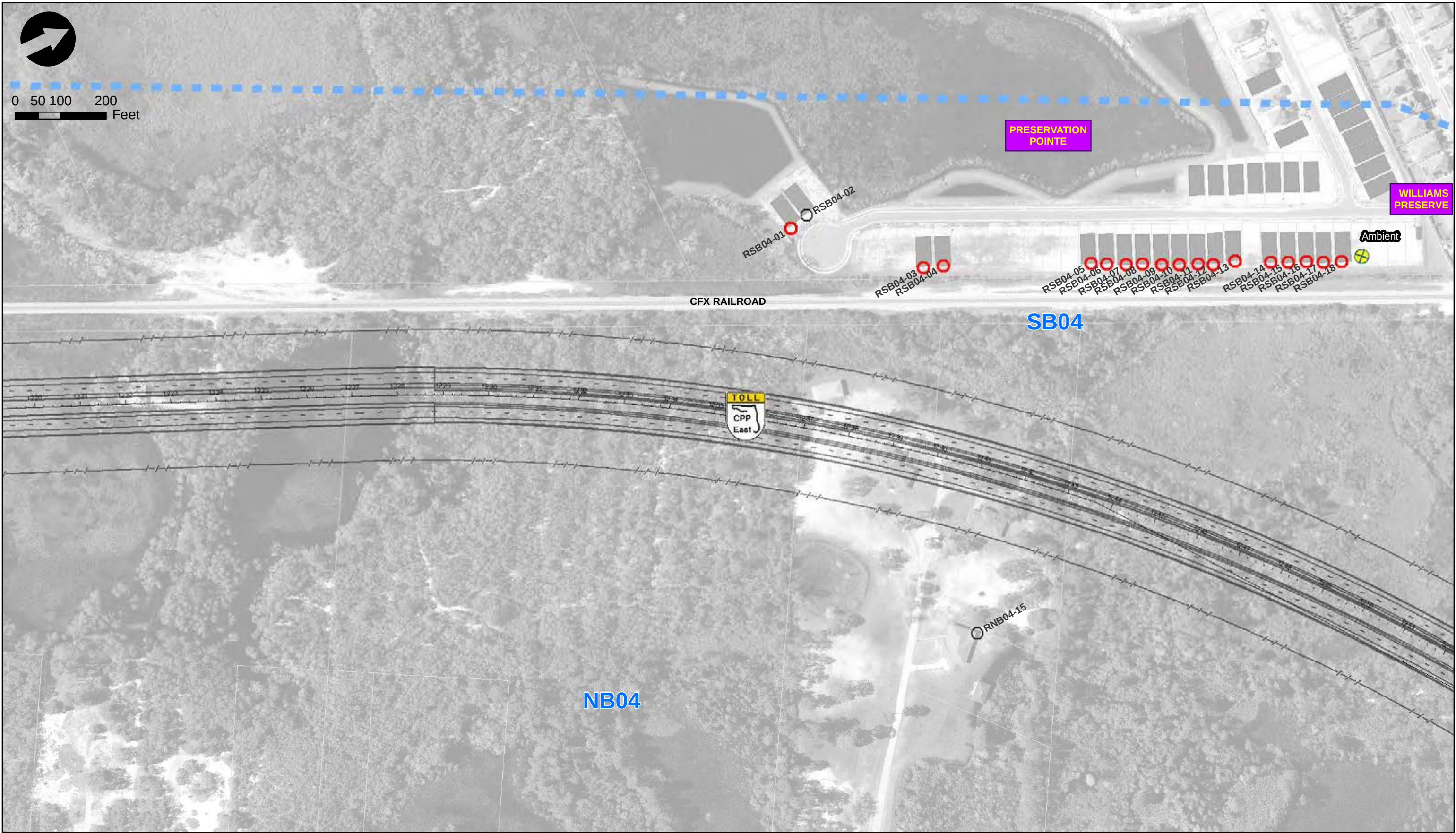
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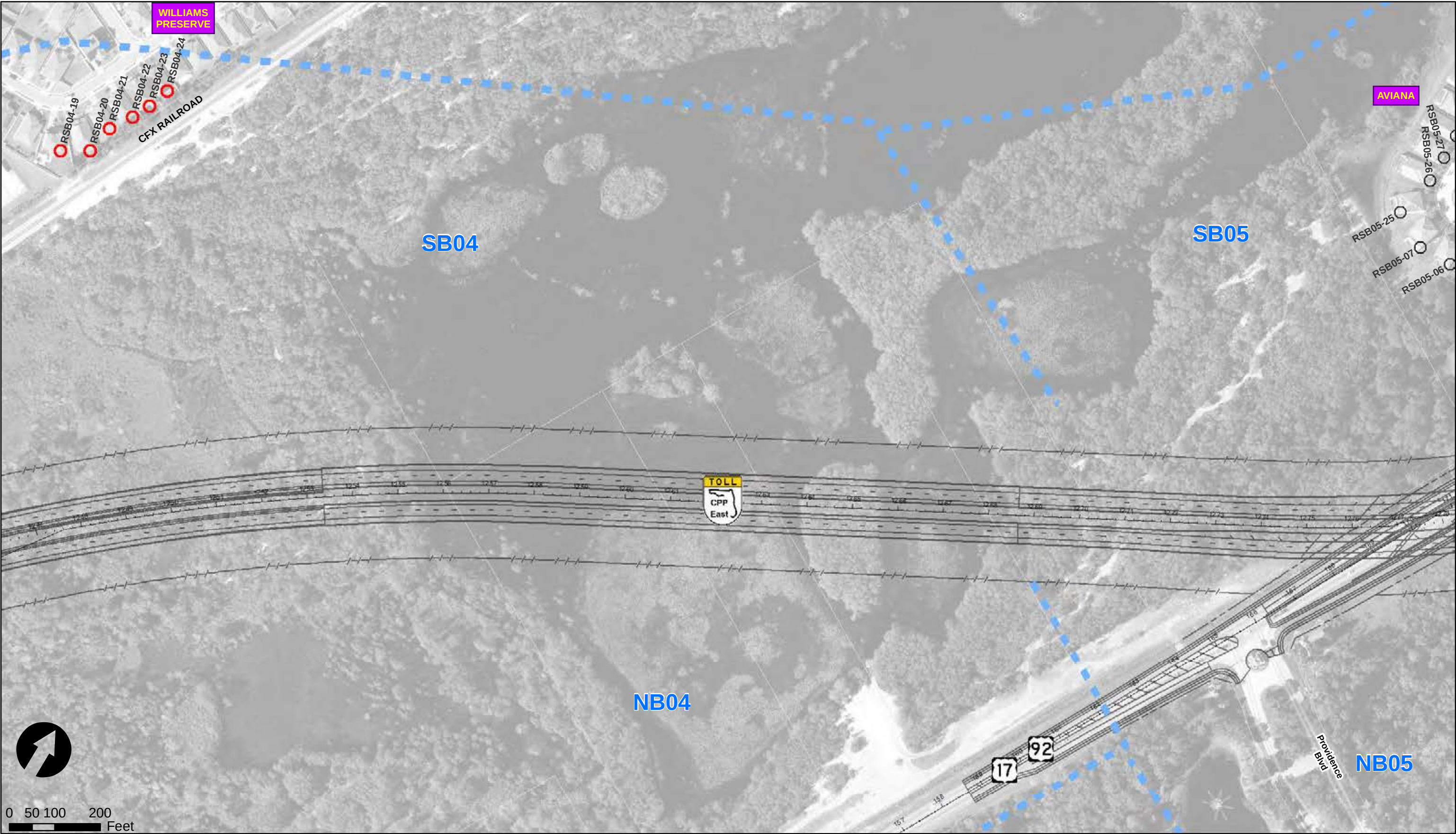


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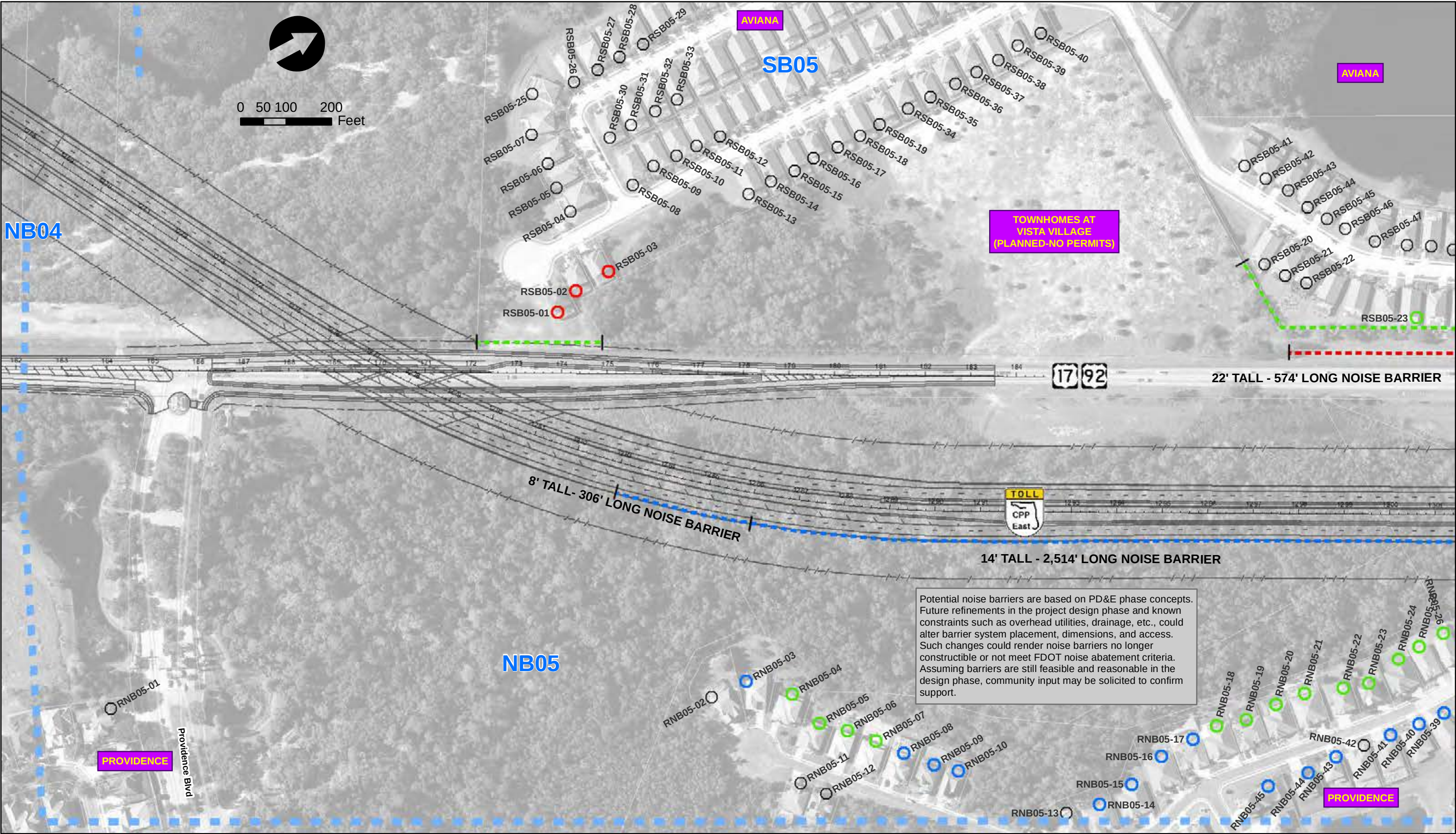
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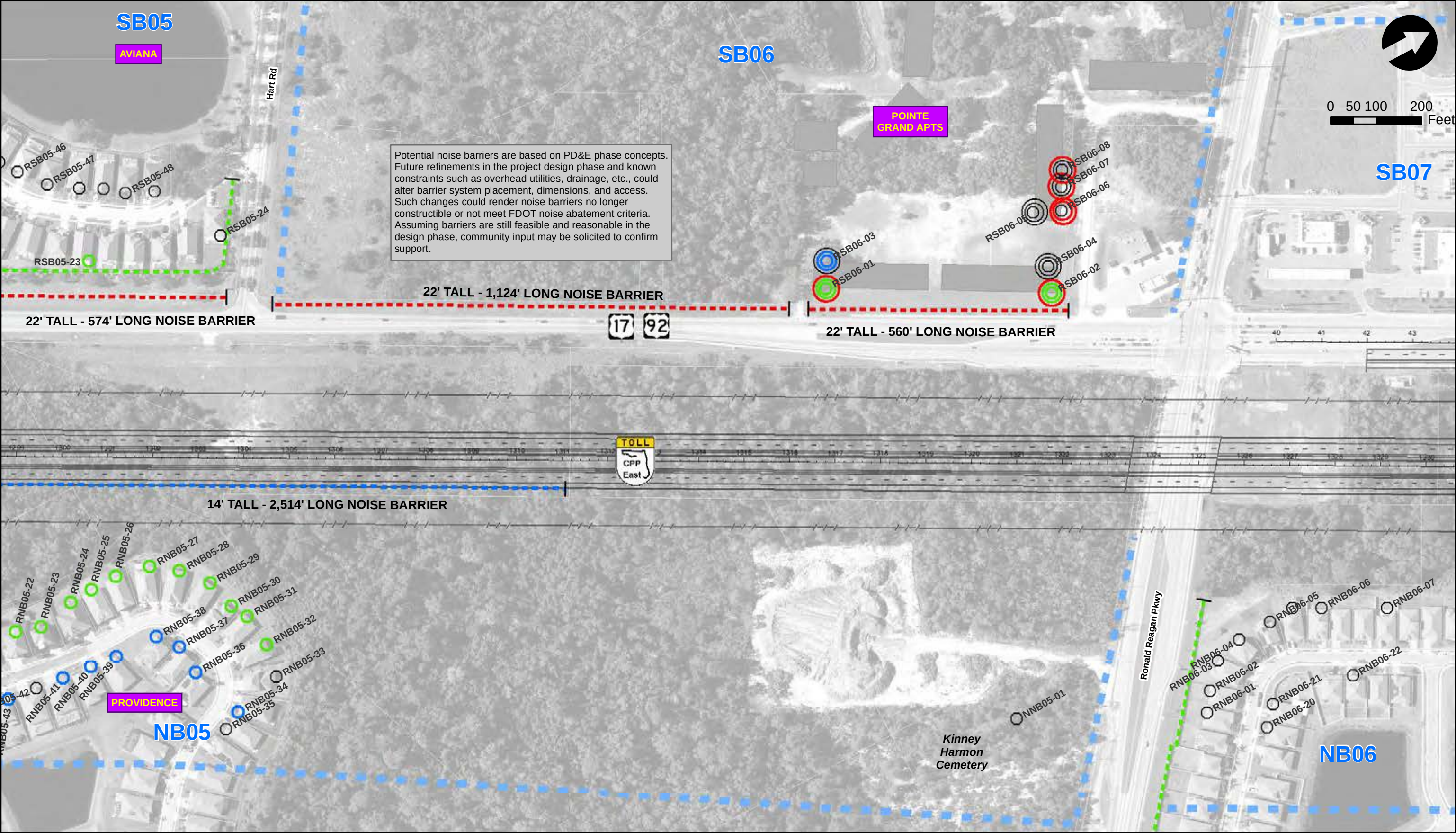




Potential noise barriers are based on PD&E phase concepts. Future refinements in the project design phase and known constraints such as overhead utilities, drainage, etc., could alter barrier system placement, dimensions, and access. Such changes could render noise barriers no longer constructible or not meet FDOT noise abatement criteria. Assuming barriers are still feasible and reasonable in the design phase, community input may be solicited to confirm support.

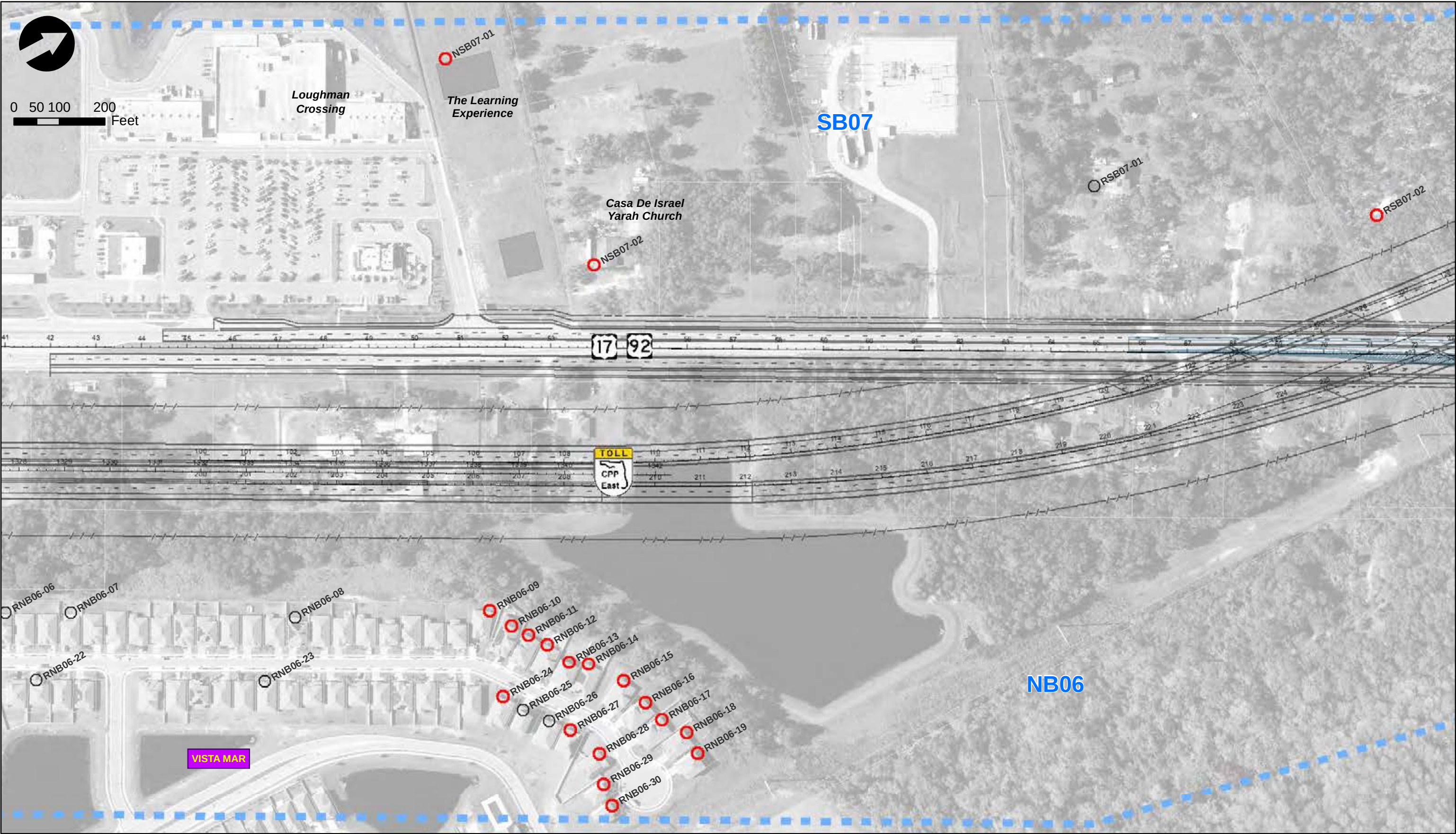
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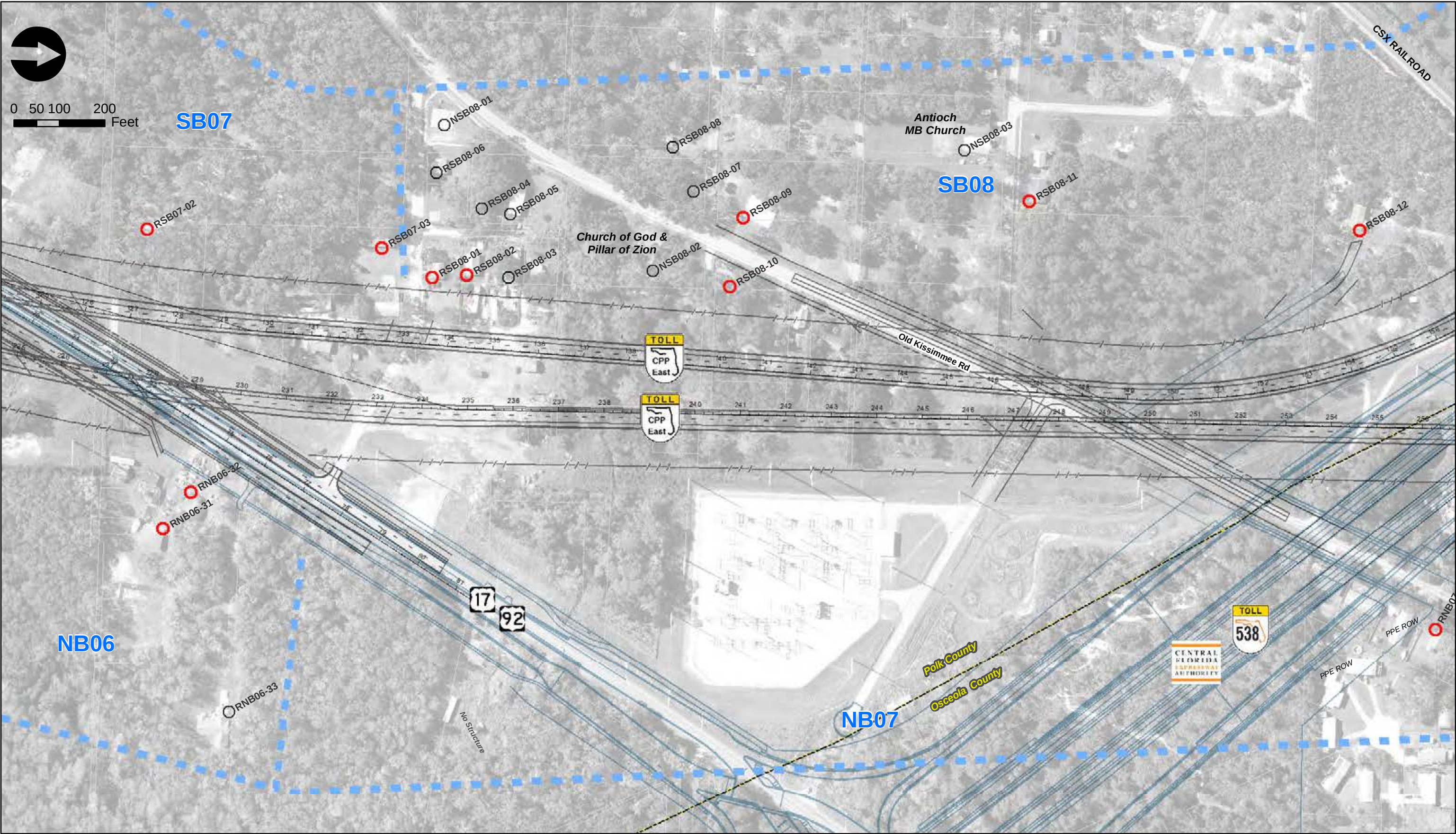
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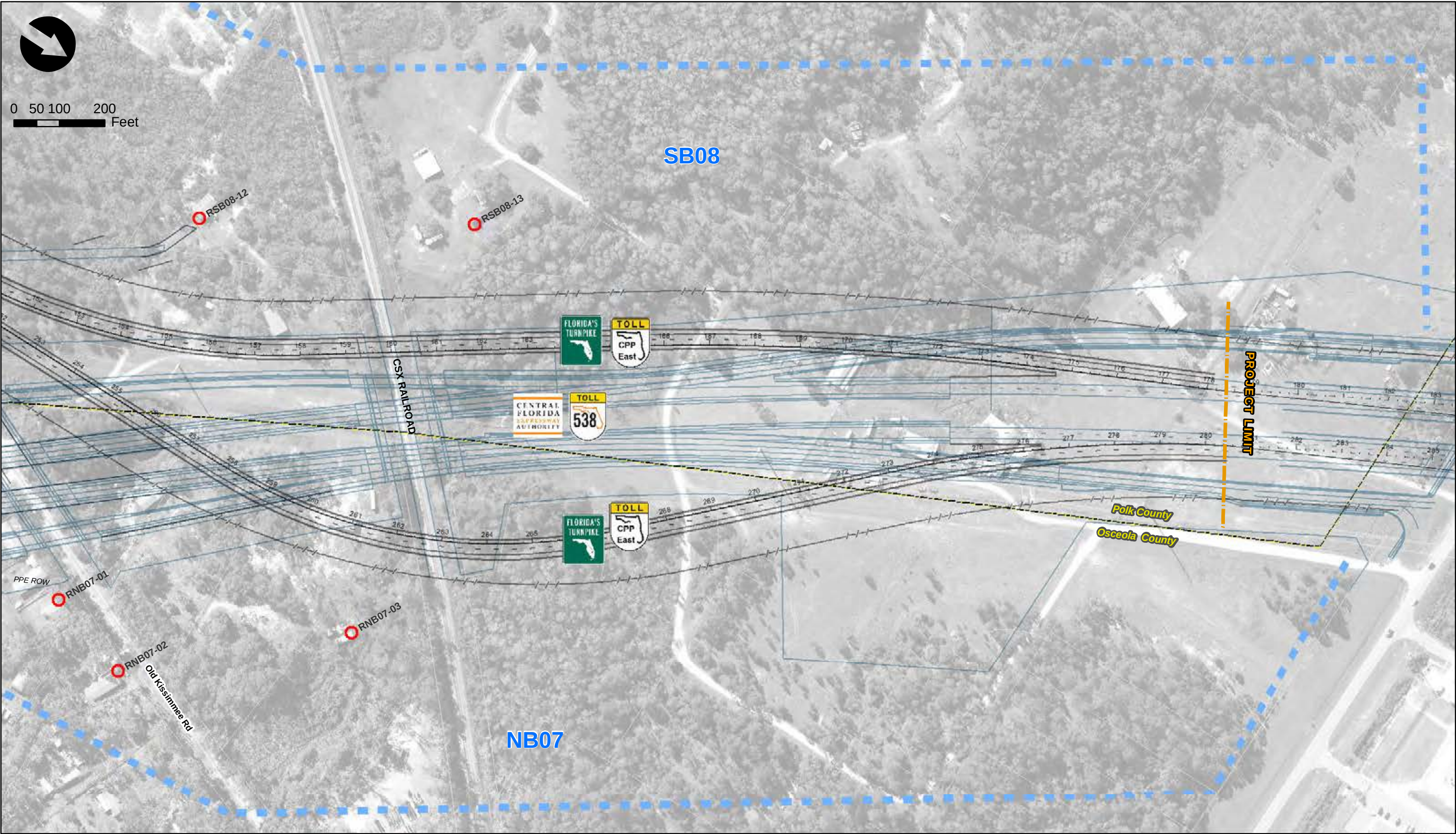
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**Appendix F**  
**SLU Equivalent Residence (ER)**  
**Barrier Evaluation**

|                                                                           |                         |                                                                                              |                       |                                                          |                                                   |                     |                  |
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| <b>SLU NAME</b>                                                           |                         | Mt. Calvary Missionary Baptist Church                                                        |                       |                                                          |                                                   |                     |                  |
| <b>SLU DESCRIPTION</b>                                                    |                         | Front Entrance                                                                               |                       |                                                          |                                                   |                     |                  |
| <b>NAC</b>                                                                |                         | C                                                                                            |                       |                                                          |                                                   |                     |                  |
| <b>SLU Equivalent Residence (ER) Identification</b>                       |                         |                                                                                              |                       |                                                          |                                                   |                     |                  |
| <b>Step</b>                                                               | <b>Sub-Step</b>         | <b>Description</b>                                                                           |                       |                                                          |                                                   |                     | <b>Value</b>     |
| <b>Average Single-Family Residence in Florida - Person Hours per Year</b> |                         |                                                                                              |                       |                                                          |                                                   |                     |                  |
| A1                                                                        | a                       | Average number of people in a single-family residence in Florida (US CENSUS, 2018-2022 data) |                       |                                                          |                                                   |                     | 2.53             |
|                                                                           | b                       | Hours a single-family residence is available for use (24 hours x 365 days)                   |                       |                                                          |                                                   |                     | 8,760            |
|                                                                           | c                       | <b>Residential Person-Hours per Year Available for Use</b>                                   |                       |                                                          |                                                   |                     | 22,163           |
| <b>SLU Person Hours per Year</b>                                          |                         |                                                                                              |                       |                                                          |                                                   |                     |                  |
| A2                                                                        | a                       | Average number of users per day <i>in the area evaluated</i> at the SLU                      |                       |                                                          |                                                   |                     | 100              |
|                                                                           | b                       | Approximate daily hourly usage by each person <i>in the area evaluated</i> at the SLU        |                       |                                                          |                                                   |                     | 0.5              |
|                                                                           | c                       | Number of days per week the SLU is operational                                               |                       |                                                          |                                                   |                     | 7                |
|                                                                           | d                       | Number of weeks per year the SLU is operational                                              |                       |                                                          |                                                   |                     | 52               |
|                                                                           | e                       | <b>Person-Hours per Year Available for Use at the SLU</b>                                    |                       |                                                          |                                                   |                     | 18,200           |
| <b>SLU Area Evaluated Equivalent Residence (ER)</b>                       |                         |                                                                                              |                       |                                                          |                                                   |                     |                  |
| A3                                                                        | a                       | <b>Equivalent Residence (ER)</b>                                                             |                       |                                                          |                                                   |                     | <b>0.82</b>      |
| <b>SLU Receptor Equivalent Residence (ER)</b>                             |                         |                                                                                              |                       |                                                          |                                                   |                     |                  |
| A4                                                                        | a                       | Identify the number of receptors evaluated at the SLU                                        |                       |                                                          |                                                   |                     | 1                |
|                                                                           | b                       | Individual Receptor Equivalent Residence (i.e., each receptor point evaluated is worth...)   |                       |                                                          |                                                   |                     | 0.821            |
| <b>SLU Weighted Residential Vote Value</b>                                |                         |                                                                                              |                       |                                                          |                                                   |                     |                  |
| A5                                                                        | a                       | Barrier ID Selected                                                                          |                       |                                                          |                                                   |                     | CNE SB01         |
|                                                                           | b                       | Number of votes Assigned to SLU in Barrier Voting Process (if applicable)                    |                       |                                                          |                                                   |                     | #N/A             |
| <b>Barrier Evaluation for SLU NSB01-01</b>                                |                         |                                                                                              |                       |                                                          |                                                   |                     |                  |
| <b>Barrier ID</b>                                                         | <b>Barrier Location</b> | <b>Barrier Height</b>                                                                        | <b>Barrier Length</b> | <b>Number of Impacted and Benefited Receptors at SLU</b> | <b>Total Number of Benefited Receptors at SLU</b> | <b>Impacted BER</b> | <b>Total BER</b> |
| 1                                                                         | ROW                     | 8                                                                                            | 1335                  | 0                                                        | 0                                                 | 0.00                | 0.00             |
|                                                                           |                         |                                                                                              |                       |                                                          |                                                   |                     |                  |
| 2                                                                         | ROW                     | 10                                                                                           | 1335                  | 0                                                        | 0                                                 | 0.00                | 0.00             |
|                                                                           |                         |                                                                                              |                       |                                                          |                                                   |                     |                  |
| 3                                                                         | ROW                     | 12                                                                                           | 1335                  | 0                                                        | 0                                                 | 0.00                | 0.00             |
|                                                                           |                         |                                                                                              |                       |                                                          |                                                   |                     |                  |
| 4                                                                         | ROW                     | 14                                                                                           | 822                   | 0                                                        | 0                                                 | 0.00                | 0.00             |
|                                                                           |                         |                                                                                              |                       |                                                          |                                                   |                     |                  |
| 5                                                                         | ROW                     | 16                                                                                           | 1335                  | 0                                                        | 0                                                 | 0.00                | 0.00             |
|                                                                           |                         |                                                                                              |                       |                                                          |                                                   |                     |                  |
| 6                                                                         | ROW                     | 18                                                                                           | 1335                  | 0                                                        | 0                                                 | 0.00                | 0.00             |
|                                                                           |                         |                                                                                              |                       |                                                          |                                                   |                     |                  |
| 7                                                                         | ROW                     | 20                                                                                           | 1335                  | 0                                                        | 0                                                 | 0.00                | 0.00             |
|                                                                           |                         |                                                                                              |                       |                                                          |                                                   |                     |                  |
| 8                                                                         | ROW                     | 22                                                                                           | 1335                  | 0                                                        | 0                                                 | 0.00                | 0.00             |
|                                                                           |                         |                                                                                              |                       |                                                          |                                                   |                     |                  |

Note: Yellow highlighted cells are to be filled out by Noise Analyst/District Noise Specialist. Grey cells have embedded formulas.

|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|--------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|--------------------------------------------|--------------|-----------|
| SLU NAME                                                           |                  | Jamestown Park                                                                               |                |                                                   |                                            |              |           |
| SLU DESCRIPTION                                                    |                  | Basketball Courts, playground, picnic pavillions                                             |                |                                                   |                                            |              |           |
| NAC                                                                |                  | C                                                                                            |                |                                                   |                                            |              |           |
| SLU Equivalent Residence (ER) Identification                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| Step                                                               | Sub-Step         | Description                                                                                  |                |                                                   |                                            |              | Value     |
| Average Single-Family Residence in Florida - Person Hours per Year |                  |                                                                                              |                |                                                   |                                            |              |           |
| A1                                                                 | a                | Average number of people in a single-family residence in Florida (US CENSUS, 2018-2022 data) |                |                                                   |                                            |              | 2.53      |
|                                                                    | b                | Hours a single-family residence is available for use (24 hours x 365 days)                   |                |                                                   |                                            |              | 8,760     |
|                                                                    | c                | Residential Person-Hours per Year Available for Use                                          |                |                                                   |                                            |              | 22,163    |
| SLU Person Hours per Year                                          |                  |                                                                                              |                |                                                   |                                            |              |           |
| A2                                                                 | a                | Average number of users per day <i>in the area evaluated</i> at the SLU                      |                |                                                   |                                            |              | 218       |
|                                                                    | b                | Approximate daily hourly usage by each person <i>in the area evaluated</i> at the SLU        |                |                                                   |                                            |              | 2.00      |
|                                                                    | c                | Number of days per week the SLU is operational                                               |                |                                                   |                                            |              | 7         |
|                                                                    | d                | Number of weeks per year the SLU is operational                                              |                |                                                   |                                            |              | 52        |
|                                                                    | e                | Person-Hours per Year Available for Use at the SLU                                           |                |                                                   |                                            |              | 158,704   |
| SLU Area Evaluated Equivalent Residence (ER)                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| A3                                                                 | a                | Equivalent Residence (ER)                                                                    |                |                                                   |                                            |              | 7.16      |
| SLU Receptor Equivalent Residence (ER)                             |                  |                                                                                              |                |                                                   |                                            |              |           |
| A4                                                                 | a                | Identify the number of receptors evaluated at the SLU                                        |                |                                                   |                                            |              | 2         |
|                                                                    | b                | Individual Receptor Equivalent Residence (i.e., each receptor point evaluated is worth...)   |                |                                                   |                                            |              | 3.580     |
| SLU Weighted Residential Vote Value                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| A5                                                                 | a                | Barrier ID Selected                                                                          |                |                                                   |                                            |              | CNE SB01  |
|                                                                    | b                | Number of votes Assigned to SLU in Barrier Voting Process (if applicable)                    |                |                                                   |                                            |              | #N/A      |
| Barrier Evaluation for SLU NSB01-2.1 & NSB01-2.2                   |                  |                                                                                              |                |                                                   |                                            |              |           |
| Barrier ID                                                         | Barrier Location | Barrier Height                                                                               | Barrier Length | Number of Impacted and Benefited Receptors at SLU | Total Number of Benefited Receptors at SLU | Impacted BER | Total BER |
| 1                                                                  | ROW              | 8                                                                                            | 1335           | 1                                                 | 1                                          | 3.58         | 3.58      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 2                                                                  | ROW              | 10                                                                                           | 1335           | 1                                                 | 1                                          | 3.58         | 3.58      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 3                                                                  | ROW              | 12                                                                                           | 1335           | 1                                                 | 1                                          | 3.58         | 3.58      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 4                                                                  | ROW              | 14                                                                                           | 822            | 1                                                 | 1                                          | 3.58         | 3.58      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 5                                                                  | ROW              | 16                                                                                           | 1335           | 1                                                 | 1                                          | 3.58         | 3.58      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 6                                                                  | ROW              | 18                                                                                           | 1335           | 1                                                 | 1                                          | 3.58         | 3.58      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 7                                                                  | ROW              | 20                                                                                           | 1335           | 2                                                 | 2                                          | 7.16         | 7.16      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 8                                                                  | ROW              | 22                                                                                           | 1335           | 2                                                 | 2                                          | 7.16         | 7.16      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |



|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|--------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|--------------------------------------------|--------------|-----------|
| SLU NAME                                                           |                  | Church of God by Faith                                                                       |                |                                                   |                                            |              |           |
| SLU DESCRIPTION                                                    |                  | Front Entrance                                                                               |                |                                                   |                                            |              |           |
| NAC                                                                |                  | C                                                                                            |                |                                                   |                                            |              |           |
| SLU Equivalent Residence (ER) Identification                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| Step                                                               | Sub-Step         | Description                                                                                  |                |                                                   |                                            |              | Value     |
| Average Single-Family Residence in Florida - Person Hours per Year |                  |                                                                                              |                |                                                   |                                            |              |           |
| A1                                                                 | a                | Average number of people in a single-family residence in Florida (US CENSUS, 2018-2022 data) |                |                                                   |                                            |              | 2.53      |
|                                                                    | b                | Hours a single-family residence is available for use (24 hours x 365 days)                   |                |                                                   |                                            |              | 8,760     |
|                                                                    | c                | Residential Person-Hours per Year Available for Use                                          |                |                                                   |                                            |              | 22,163    |
| SLU Person Hours per Year                                          |                  |                                                                                              |                |                                                   |                                            |              |           |
| A2                                                                 | a                | Average number of users per day <i>in the area evaluated</i> at the SLU                      |                |                                                   |                                            |              | 100       |
|                                                                    | b                | Approximate daily hourly usage by each person <i>in the area evaluated</i> at the SLU        |                |                                                   |                                            |              | 0.5       |
|                                                                    | c                | Number of days per week the SLU is operational                                               |                |                                                   |                                            |              | 7         |
|                                                                    | d                | Number of weeks per year the SLU is operational                                              |                |                                                   |                                            |              | 52        |
|                                                                    | e                | Person-Hours per Year Available for Use at the SLU                                           |                |                                                   |                                            |              | 18,200    |
| SLU Area Evaluated Equivalent Residence (ER)                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| A3                                                                 | a                | Equivalent Residence (ER)                                                                    |                |                                                   |                                            |              | 0.82      |
| SLU Receptor Equivalent Residence (ER)                             |                  |                                                                                              |                |                                                   |                                            |              |           |
| A4                                                                 | a                | Identify the number of receptors evaluated at the SLU                                        |                |                                                   |                                            |              | 1         |
|                                                                    | b                | Individual Receptor Equivalent Residence (i.e., each receptor point evaluated is worth...)   |                |                                                   |                                            |              | 0.821     |
| SLU Weighted Residential Vote Value                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| A5                                                                 | a                | Barrier ID Selected                                                                          |                |                                                   |                                            |              | CNE SB01  |
|                                                                    | b                | Number of votes Assigned to SLU in Barrier Voting Process (if applicable)                    |                |                                                   |                                            |              | #N/A      |
| Barrier Evaluation for SLU NSB01-03                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| Barrier ID                                                         | Barrier Location | Barrier Height                                                                               | Barrier Length | Number of Impacted and Benefited Receptors at SLU | Total Number of Benefited Receptors at SLU | Impacted BER | Total BER |
| 1                                                                  | ROW              | 8                                                                                            | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 2                                                                  | ROW              | 10                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 3                                                                  | ROW              | 12                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 4                                                                  | ROW              | 14                                                                                           | 822            | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 5                                                                  | ROW              | 16                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 6                                                                  | ROW              | 18                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 7                                                                  | ROW              | 20                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 8                                                                  | ROW              | 22                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |

|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|--------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|--------------------------------------------|--------------|-----------|
| SLU NAME                                                           |                  | St. Marks AME Church                                                                         |                |                                                   |                                            |              |           |
| SLU DESCRIPTION                                                    |                  | Front Entrance                                                                               |                |                                                   |                                            |              |           |
| NAC                                                                |                  | C                                                                                            |                |                                                   |                                            |              |           |
| SLU Equivalent Residence (ER) Identification                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| Step                                                               | Sub-Step         | Description                                                                                  |                |                                                   |                                            |              | Value     |
| Average Single-Family Residence in Florida - Person Hours per Year |                  |                                                                                              |                |                                                   |                                            |              |           |
| A1                                                                 | a                | Average number of people in a single-family residence in Florida (US CENSUS, 2018-2022 data) |                |                                                   |                                            |              | 2.53      |
|                                                                    | b                | Hours a single-family residence is available for use (24 hours x 365 days)                   |                |                                                   |                                            |              | 8,760     |
|                                                                    | c                | Residential Person-Hours per Year Available for Use                                          |                |                                                   |                                            |              | 22,163    |
| SLU Person Hours per Year                                          |                  |                                                                                              |                |                                                   |                                            |              |           |
| A2                                                                 | a                | Average number of users per day <i>in the area evaluated</i> at the SLU                      |                |                                                   |                                            |              | 100       |
|                                                                    | b                | Approximate daily hourly usage by each person <i>in the area evaluated</i> at the SLU        |                |                                                   |                                            |              | 0.5       |
|                                                                    | c                | Number of days per week the SLU is operational                                               |                |                                                   |                                            |              | 7         |
|                                                                    | d                | Number of weeks per year the SLU is operational                                              |                |                                                   |                                            |              | 52        |
|                                                                    | e                | Person-Hours per Year Available for Use at the SLU                                           |                |                                                   |                                            |              | 18,200    |
| SLU Area Evaluated Equivalent Residence (ER)                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| A3                                                                 | a                | Equivalent Residence (ER)                                                                    |                |                                                   |                                            |              | 0.82      |
| SLU Receptor Equivalent Residence (ER)                             |                  |                                                                                              |                |                                                   |                                            |              |           |
| A4                                                                 | a                | Identify the number of receptors evaluated at the SLU                                        |                |                                                   |                                            |              | 1         |
|                                                                    | b                | Individual Receptor Equivalent Residence (i.e., each receptor point evaluated is worth...)   |                |                                                   |                                            |              | 0.821     |
| SLU Weighted Residential Vote Value                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| A5                                                                 | a                | Barrier ID Selected                                                                          |                |                                                   |                                            |              | CNE SB01  |
|                                                                    | b                | Number of votes Assigned to SLU in Barrier Voting Process (if applicable)                    |                |                                                   |                                            |              | #N/A      |
| Barrier Evaluation for SLU NSB01-04                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| Barrier ID                                                         | Barrier Location | Barrier Height                                                                               | Barrier Length | Number of Impacted and Benefited Receptors at SLU | Total Number of Benefited Receptors at SLU | Impacted BER | Total BER |
| 1                                                                  | ROW              | 8                                                                                            | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 2                                                                  | ROW              | 10                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 3                                                                  | ROW              | 12                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 4                                                                  | ROW              | 14                                                                                           | 822            | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 5                                                                  | ROW              | 16                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 6                                                                  | ROW              | 18                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 7                                                                  | ROW              | 20                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 8                                                                  | ROW              | 22                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |

|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|--------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|--------------------------------------------|--------------|-----------|
| SLU NAME                                                           |                  | Mt. Calvary Missionary Baptist Church                                                        |                |                                                   |                                            |              |           |
| SLU DESCRIPTION                                                    |                  | Front Entrance                                                                               |                |                                                   |                                            |              |           |
| NAC                                                                |                  | C                                                                                            |                |                                                   |                                            |              |           |
| SLU Equivalent Residence (ER) Identification                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| Step                                                               | Sub-Step         | Description                                                                                  |                |                                                   |                                            |              | Value     |
| Average Single-Family Residence in Florida - Person Hours per Year |                  |                                                                                              |                |                                                   |                                            |              |           |
| A1                                                                 | a                | Average number of people in a single-family residence in Florida (US CENSUS, 2018-2022 data) |                |                                                   |                                            |              | 2.53      |
|                                                                    | b                | Hours a single-family residence is available for use (24 hours x 365 days)                   |                |                                                   |                                            |              | 8,760     |
|                                                                    | c                | Residential Person-Hours per Year Available for Use                                          |                |                                                   |                                            |              | 22,163    |
| SLU Person Hours per Year                                          |                  |                                                                                              |                |                                                   |                                            |              |           |
| A2                                                                 | a                | Average number of users per day <i>in the area evaluated</i> at the SLU                      |                |                                                   |                                            |              | 100       |
|                                                                    | b                | Approximate daily hourly usage by each person <i>in the area evaluated</i> at the SLU        |                |                                                   |                                            |              | 0.5       |
|                                                                    | c                | Number of days per week the SLU is operational                                               |                |                                                   |                                            |              | 7         |
|                                                                    | d                | Number of weeks per year the SLU is operational                                              |                |                                                   |                                            |              | 52        |
|                                                                    | e                | Person-Hours per Year Available for Use at the SLU                                           |                |                                                   |                                            |              | 18,200    |
| SLU Area Evaluated Equivalent Residence (ER)                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| A3                                                                 | a                | Equivalent Residence (ER)                                                                    |                |                                                   |                                            |              | 0.82      |
| SLU Receptor Equivalent Residence (ER)                             |                  |                                                                                              |                |                                                   |                                            |              |           |
| A4                                                                 | a                | Identify the number of receptors evaluated at the SLU                                        |                |                                                   |                                            |              | 1         |
|                                                                    | b                | Individual Receptor Equivalent Residence (i.e., each receptor point evaluated is worth...)   |                |                                                   |                                            |              | 0.821     |
| SLU Weighted Residential Vote Value                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| A5                                                                 | a                | Barrier ID Selected                                                                          |                |                                                   |                                            |              | CNE SB01  |
|                                                                    | b                | Number of votes Assigned to SLU in Barrier Voting Process (if applicable)                    |                |                                                   |                                            |              | #N/A      |
| Barrier Evaluation for SLU NSB01-01                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| Barrier ID                                                         | Barrier Location | Barrier Height                                                                               | Barrier Length | Number of Impacted and Benefited Receptors at SLU | Total Number of Benefited Receptors at SLU | Impacted BER | Total BER |
| 1                                                                  | ROW              | 8                                                                                            | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 2                                                                  | ROW              | 10                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 3                                                                  | ROW              | 12                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 4                                                                  | ROW              | 14                                                                                           | 822            | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 5                                                                  | ROW              | 16                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 6                                                                  | ROW              | 18                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 7                                                                  | ROW              | 20                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 8                                                                  | ROW              | 22                                                                                           | 1432           | 1                                                 | 1                                          | 0.82         | 0.82      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |



|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |
|--------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------|----------------|------------------------------------------------------|-----------------------------------------------|--------------|-----------|
| SLU NAME                                                           |                  | Jamestown Park                                                                               |                |                                                      |                                               |              |           |
| SLU DESCRIPTION                                                    |                  | Basketball Courts, playground, picnic pavillions                                             |                |                                                      |                                               |              |           |
| NAC                                                                |                  | C                                                                                            |                |                                                      |                                               |              |           |
| SLU Equivalent Residence (ER) Identification                       |                  |                                                                                              |                |                                                      |                                               |              |           |
| Step                                                               | Sub-Step         | Description                                                                                  |                |                                                      |                                               |              | Value     |
| Average Single-Family Residence in Florida - Person Hours per Year |                  |                                                                                              |                |                                                      |                                               |              |           |
| A1                                                                 | a                | Average number of people in a single-family residence in Florida (US CENSUS, 2018-2022 data) |                |                                                      |                                               |              | 2.53      |
|                                                                    | b                | Hours a single-family residence is available for use (24 hours x 365 days)                   |                |                                                      |                                               |              | 8,760     |
|                                                                    | c                | Residential Person-Hours per Year Available for Use                                          |                |                                                      |                                               |              | 22,163    |
| SLU Person Hours per Year                                          |                  |                                                                                              |                |                                                      |                                               |              |           |
| A2                                                                 | a                | Average number of users per day <i>in the area evaluated</i> at the SLU                      |                |                                                      |                                               |              | 218       |
|                                                                    | b                | Approximate daily hourly usage by each person <i>in the area evaluated</i> at the SLU        |                |                                                      |                                               |              | 2.00      |
|                                                                    | c                | Number of days per week the SLU is operational                                               |                |                                                      |                                               |              | 7         |
|                                                                    | d                | Number of weeks per year the SLU is operational                                              |                |                                                      |                                               |              | 52        |
|                                                                    | e                | Person-Hours per Year Available for Use at the SLU                                           |                |                                                      |                                               |              | 158,704   |
| SLU Area Evaluated Equivalent Residence (ER)                       |                  |                                                                                              |                |                                                      |                                               |              |           |
| A3                                                                 | a                | Equivalent Residence (ER)                                                                    |                |                                                      |                                               |              | 7.16      |
| SLU Receptor Equivalent Residence (ER)                             |                  |                                                                                              |                |                                                      |                                               |              |           |
| A4                                                                 | a                | Identify the number of receptors evaluated at the SLU                                        |                |                                                      |                                               |              | 2         |
|                                                                    | b                | Individual Receptor Equivalent Residence (i.e., each receptor point evaluated is worth...)   |                |                                                      |                                               |              | 3.580     |
| SLU Weighted Residential Vote Value                                |                  |                                                                                              |                |                                                      |                                               |              |           |
| A5                                                                 | a                | Barrier ID Selected                                                                          |                |                                                      |                                               |              | CNE SB01  |
|                                                                    | b                | Number of votes Assigned to SLU in Barrier Voting Process (if applicable)                    |                |                                                      |                                               |              | #N/A      |
| Barrier Evaluation for SLU NSB01-2.1 & 2.2                         |                  |                                                                                              |                |                                                      |                                               |              |           |
| Barrier ID                                                         | Barrier Location | Barrier Height                                                                               | Barrier Length | Number of Impacted and Benefited Receptors at SLU #1 | Total Number of Benefited Receptors at SLU #1 | Impacted BER | Total BER |
| 1                                                                  | ROW              | 8                                                                                            | 1335           | 1                                                    | 1                                             | 3.58         | 3.58      |
|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |
|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |
| 2                                                                  | ROW              | 10                                                                                           | 1335           | 1                                                    | 1                                             | 3.58         | 3.58      |
|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |
|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |
| 3                                                                  | ROW              | 12                                                                                           | 1335           | 1                                                    | 1                                             | 3.58         | 3.58      |
|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |
|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |
| 4                                                                  | ROW              | 14                                                                                           | 822            | 2                                                    | 2                                             | 7.16         | 7.16      |
|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |
|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |
| 5                                                                  | ROW              | 16                                                                                           | 1335           | 2                                                    | 2                                             | 7.16         | 7.16      |
|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |
|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |
| 6                                                                  | ROW              | 18                                                                                           | 1335           | 2                                                    | 2                                             | 7.16         | 7.16      |
|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |
|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |
| 7                                                                  | ROW              | 20                                                                                           | 1335           | 2                                                    | 2                                             | 7.16         | 7.16      |
|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |
|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |
| 8                                                                  | ROW              | 22                                                                                           | 1432           | 2                                                    | 2                                             | 7.16         | 7.16      |
|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |
|                                                                    |                  |                                                                                              |                |                                                      |                                               |              |           |

|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|--------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|--------------------------------------------|--------------|-----------|
| SLU NAME                                                           |                  | Church of God by Faith                                                                       |                |                                                   |                                            |              |           |
| SLU DESCRIPTION                                                    |                  | Front Entrance                                                                               |                |                                                   |                                            |              |           |
| NAC                                                                |                  | C                                                                                            |                |                                                   |                                            |              |           |
| SLU Equivalent Residence (ER) Identification                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| Step                                                               | Sub-Step         | Description                                                                                  |                |                                                   |                                            |              | Value     |
| Average Single-Family Residence in Florida - Person Hours per Year |                  |                                                                                              |                |                                                   |                                            |              |           |
| A1                                                                 | a                | Average number of people in a single-family residence in Florida (US CENSUS, 2018-2022 data) |                |                                                   |                                            |              | 2.53      |
|                                                                    | b                | Hours a single-family residence is available for use (24 hours x 365 days)                   |                |                                                   |                                            |              | 8,760     |
|                                                                    | c                | Residential Person-Hours per Year Available for Use                                          |                |                                                   |                                            |              | 22,163    |
| SLU Person Hours per Year                                          |                  |                                                                                              |                |                                                   |                                            |              |           |
| A2                                                                 | a                | Average number of users per day <i>in the area evaluated</i> at the SLU                      |                |                                                   |                                            |              | 100       |
|                                                                    | b                | Approximate daily hourly usage by each person <i>in the area evaluated</i> at the SLU        |                |                                                   |                                            |              | 0.5       |
|                                                                    | c                | Number of days per week the SLU is operational                                               |                |                                                   |                                            |              | 7         |
|                                                                    | d                | Number of weeks per year the SLU is operational                                              |                |                                                   |                                            |              | 52        |
|                                                                    | e                | Person-Hours per Year Available for Use at the SLU                                           |                |                                                   |                                            |              | 18,200    |
| SLU Area Evaluated Equivalent Residence (ER)                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| A3                                                                 | a                | Equivalent Residence (ER)                                                                    |                |                                                   |                                            |              | 0.82      |
| SLU Receptor Equivalent Residence (ER)                             |                  |                                                                                              |                |                                                   |                                            |              |           |
| A4                                                                 | a                | Identify the number of receptors evaluated at the SLU                                        |                |                                                   |                                            |              | 1         |
|                                                                    | b                | Individual Receptor Equivalent Residence (i.e., each receptor point evaluated is worth...)   |                |                                                   |                                            |              | 0.821     |
| SLU Weighted Residential Vote Value                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| A5                                                                 | a                | Barrier ID Selected                                                                          |                |                                                   |                                            |              | CNE SB01  |
|                                                                    | b                | Number of votes Assigned to SLU in Barrier Voting Process (if applicable)                    |                |                                                   |                                            |              | #N/A      |
| Barrier Evaluation for SLU NSB01-03                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| Barrier ID                                                         | Barrier Location | Barrier Height                                                                               | Barrier Length | Number of Impacted and Benefited Receptors at SLU | Total Number of Benefited Receptors at SLU | Impacted BER | Total BER |
| 1                                                                  | ROW              | 8                                                                                            | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 2                                                                  | ROW              | 10                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 3                                                                  | ROW              | 12                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 4                                                                  | ROW              | 14                                                                                           | 822            | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 5                                                                  | ROW              | 16                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 6                                                                  | ROW              | 18                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 7                                                                  | ROW              | 20                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 8                                                                  | ROW              | 22                                                                                           | 1432           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |

|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|--------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|--------------------------------------------|--------------|-----------|
| SLU NAME                                                           |                  | St. Marks AME Church                                                                         |                |                                                   |                                            |              |           |
| SLU DESCRIPTION                                                    |                  | Front Entrance                                                                               |                |                                                   |                                            |              |           |
| NAC                                                                |                  | C                                                                                            |                |                                                   |                                            |              |           |
| SLU Equivalent Residence (ER) Identification                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| Step                                                               | Sub-Step         | Description                                                                                  |                |                                                   |                                            |              | Value     |
| Average Single-Family Residence in Florida - Person Hours per Year |                  |                                                                                              |                |                                                   |                                            |              |           |
| A1                                                                 | a                | Average number of people in a single-family residence in Florida (US CENSUS, 2018-2022 data) |                |                                                   |                                            |              | 2.53      |
|                                                                    | b                | Hours a single-family residence is available for use (24 hours x 365 days)                   |                |                                                   |                                            |              | 8,760     |
|                                                                    | c                | Residential Person-Hours per Year Available for Use                                          |                |                                                   |                                            |              | 22,163    |
| SLU Person Hours per Year                                          |                  |                                                                                              |                |                                                   |                                            |              |           |
| A2                                                                 | a                | Average number of users per day <i>in the area evaluated</i> at the SLU                      |                |                                                   |                                            |              | 100       |
|                                                                    | b                | Approximate daily hourly usage by each person <i>in the area evaluated</i> at the SLU        |                |                                                   |                                            |              | 0.5       |
|                                                                    | c                | Number of days per week the SLU is operational                                               |                |                                                   |                                            |              | 7         |
|                                                                    | d                | Number of weeks per year the SLU is operational                                              |                |                                                   |                                            |              | 52        |
|                                                                    | e                | Person-Hours per Year Available for Use at the SLU                                           |                |                                                   |                                            |              | 18,200    |
| SLU Area Evaluated Equivalent Residence (ER)                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| A3                                                                 | a                | Equivalent Residence (ER)                                                                    |                |                                                   |                                            |              | 0.82      |
| SLU Receptor Equivalent Residence (ER)                             |                  |                                                                                              |                |                                                   |                                            |              |           |
| A4                                                                 | a                | Identify the number of receptors evaluated at the SLU                                        |                |                                                   |                                            |              | 1         |
|                                                                    | b                | Individual Receptor Equivalent Residence (i.e., each receptor point evaluated is worth...)   |                |                                                   |                                            |              | 0.821     |
| SLU Weighted Residential Vote Value                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| A5                                                                 | a                | Barrier ID Selected                                                                          |                |                                                   |                                            |              | CNE SB01  |
|                                                                    | b                | Number of votes Assigned to SLU in Barrier Voting Process (if applicable)                    |                |                                                   |                                            |              | #N/A      |
| Barrier Evaluation for SLU NSB01-04                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| Barrier ID                                                         | Barrier Location | Barrier Height                                                                               | Barrier Length | Number of Impacted and Benefited Receptors at SLU | Total Number of Benefited Receptors at SLU | Impacted BER | Total BER |
| 1                                                                  | ROW              | 8                                                                                            | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 2                                                                  | ROW              | 10                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 3                                                                  | ROW              | 12                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 4                                                                  | ROW              | 14                                                                                           | 822            | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 5                                                                  | ROW              | 16                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 6                                                                  | ROW              | 18                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 7                                                                  | ROW              | 20                                                                                           | 1335           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 8                                                                  | ROW              | 22                                                                                           | 1432           | 0                                                 | 1                                          | 0.00         | 0.82      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |



|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|--------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|--------------------------------------------|--------------|-----------|
| SLU NAME                                                           |                  | Horsecreek Village                                                                           |                |                                                   |                                            |              |           |
| SLU DESCRIPTION                                                    |                  | Pool , Basketball Court                                                                      |                |                                                   |                                            |              |           |
| NAC                                                                |                  | C                                                                                            |                |                                                   |                                            |              |           |
| SLU Equivalent Residence (ER) Identification                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| Step                                                               | Sub-Step         | Description                                                                                  |                |                                                   |                                            |              | Value     |
| Average Single-Family Residence in Florida - Person Hours per Year |                  |                                                                                              |                |                                                   |                                            |              |           |
| A1                                                                 | a                | Average number of people in a single-family residence in Florida (US CENSUS, 2018-2022 data) |                |                                                   |                                            |              | 2.53      |
|                                                                    | b                | Hours a single-family residence is available for use (24 hours x 365 days)                   |                |                                                   |                                            |              | 8,760     |
|                                                                    | c                | Residential Person-Hours per Year Available for Use                                          |                |                                                   |                                            |              | 22,163    |
| SLU Person Hours per Year                                          |                  |                                                                                              |                |                                                   |                                            |              |           |
| A2                                                                 | a                | Average number of users per day <i>in the area evaluated</i> at the SLU                      |                |                                                   |                                            |              | 127       |
|                                                                    | b                | Approximate daily hourly usage by each person <i>in the area evaluated</i> at the SLU        |                |                                                   |                                            |              | 1.00      |
|                                                                    | c                | Number of days per week the SLU is operational                                               |                |                                                   |                                            |              | 7         |
|                                                                    | d                | Number of weeks per year the SLU is operational                                              |                |                                                   |                                            |              | 52        |
|                                                                    | e                | Person-Hours per Year Available for Use at the SLU                                           |                |                                                   |                                            |              | 46,228    |
| SLU Area Evaluated Equivalent Residence (ER)                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| A3                                                                 | a                | Equivalent Residence (ER)                                                                    |                |                                                   |                                            |              | 2.09      |
| SLU Receptor Equivalent Residence (ER)                             |                  |                                                                                              |                |                                                   |                                            |              |           |
| A4                                                                 | a                | Identify the number of receptors evaluated at the SLU                                        |                |                                                   |                                            |              | 2         |
|                                                                    | b                | Individual Receptor Equivalent Residence (i.e., each receptor point evaluated is worth...)   |                |                                                   |                                            |              | 1.043     |
| SLU Weighted Residential Vote Value                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| A5                                                                 | a                | Barrier ID Selected                                                                          |                |                                                   |                                            |              | CNE SB02  |
|                                                                    | b                | Number of votes Assigned to SLU in Barrier Voting Process (if applicable)                    |                |                                                   |                                            |              | #N/A      |
| Barrier Evaluation for SLU NSB02-1 & NSB02-2                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| Barrier ID                                                         | Barrier Location | Barrier Height                                                                               | Barrier Length | Number of Impacted and Benefited Receptors at SLU | Total Number of Benefited Receptors at SLU | Impacted BER | Total BER |
| 1                                                                  | ROW              | 8                                                                                            | 2026           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 2                                                                  | ROW              | 10                                                                                           | 1373           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 3                                                                  | ROW              | 12                                                                                           | 1424           | 1                                                 | 1                                          | 1.04         | 1.04      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 4                                                                  | ROW              | 14                                                                                           | 1764           | 1                                                 | 1                                          | 1.04         | 1.04      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 5                                                                  | ROW              | 16                                                                                           | 2026           | 1                                                 | 1                                          | 1.04         | 1.04      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 6                                                                  | ROW              | 18                                                                                           | 1961           | 1                                                 | 1                                          | 1.04         | 1.04      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 7                                                                  | ROW              | 20                                                                                           | 1918           | 1                                                 | 1                                          | 1.04         | 1.04      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 8                                                                  | ROW              | 22                                                                                           | 1862           | 1                                                 | 1                                          | 1.04         | 1.04      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |

|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|--------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|--------------------------------------------|--------------|-----------|
| SLU NAME                                                           |                  | Horsecreek Village                                                                           |                |                                                   |                                            |              |           |
| SLU DESCRIPTION                                                    |                  | Pool, Basketball Court                                                                       |                |                                                   |                                            |              |           |
| NAC                                                                |                  | C                                                                                            |                |                                                   |                                            |              |           |
| SLU Equivalent Residence (ER) Identification                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| Step                                                               | Sub-Step         | Description                                                                                  |                |                                                   |                                            |              | Value     |
| Average Single-Family Residence in Florida - Person Hours per Year |                  |                                                                                              |                |                                                   |                                            |              |           |
| A1                                                                 | a                | Average number of people in a single-family residence in Florida (US CENSUS, 2018-2022 data) |                |                                                   |                                            |              | 2.53      |
|                                                                    | b                | Hours a single-family residence is available for use (24 hours x 365 days)                   |                |                                                   |                                            |              | 8,760     |
|                                                                    | c                | Residential Person-Hours per Year Available for Use                                          |                |                                                   |                                            |              | 22,163    |
| SLU Person Hours per Year                                          |                  |                                                                                              |                |                                                   |                                            |              |           |
| A2                                                                 | a                | Average number of users per day <i>in the area evaluated</i> at the SLU                      |                |                                                   |                                            |              | 127       |
|                                                                    | b                | Approximate daily hourly usage by each person <i>in the area evaluated</i> at the SLU        |                |                                                   |                                            |              | 1.00      |
|                                                                    | c                | Number of days per week the SLU is operational                                               |                |                                                   |                                            |              | 7         |
|                                                                    | d                | Number of weeks per year the SLU is operational                                              |                |                                                   |                                            |              | 52        |
|                                                                    | e                | Person-Hours per Year Available for Use at the SLU                                           |                |                                                   |                                            |              | 46,228    |
| SLU Area Evaluated Equivalent Residence (ER)                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| A3                                                                 | a                | Equivalent Residence (ER)                                                                    |                |                                                   |                                            |              | 2.09      |
| SLU Receptor Equivalent Residence (ER)                             |                  |                                                                                              |                |                                                   |                                            |              |           |
| A4                                                                 | a                | Identify the number of receptors evaluated at the SLU                                        |                |                                                   |                                            |              | 2         |
|                                                                    | b                | Individual Receptor Equivalent Residence (i.e., each receptor point evaluated is worth...)   |                |                                                   |                                            |              | 1.043     |
| SLU Weighted Residential Vote Value                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| A5                                                                 | a                | Barrier ID Selected                                                                          |                |                                                   |                                            |              | CNE SB02  |
|                                                                    | b                | Number of votes Assigned to SLU in Barrier Voting Process (if applicable)                    |                |                                                   |                                            |              | #N/A      |
| Barrier Evaluation for SLU NSB02-1 & NSB02-2                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| Barrier ID                                                         | Barrier Location | Barrier Height                                                                               | Barrier Length | Number of Impacted and Benefited Receptors at SLU | Total Number of Benefited Receptors at SLU | Impacted BER | Total BER |
| 1                                                                  | ROW              | 8                                                                                            | 2026           | 1                                                 | 1                                          | 1.04         | 1.04      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 2                                                                  | ROW              | 10                                                                                           | 1373           | 1                                                 | 1                                          | 1.04         | 1.04      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 3                                                                  | ROW              | 12                                                                                           | 1424           | 1                                                 | 1                                          | 1.04         | 1.04      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 4                                                                  | ROW              | 14                                                                                           | 1764           | 1                                                 | 1                                          | 1.04         | 1.04      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 5                                                                  | ROW              | 16                                                                                           | 2026           | 1                                                 | 1                                          | 1.04         | 1.04      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 6                                                                  | ROW              | 18                                                                                           | 1961           | 1                                                 | 1                                          | 1.04         | 1.04      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 7                                                                  | ROW              | 20                                                                                           | 2004           | 1                                                 | 1                                          | 1.04         | 1.04      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 8                                                                  | ROW              | 22                                                                                           | 1862           | 1                                                 | 1                                          | 1.04         | 1.04      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |

|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|--------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|--------------------------------------------|--------------|-----------|
| SLU NAME                                                           |                  | The Learning Experience Preschool                                                            |                |                                                   |                                            |              |           |
| SLU DESCRIPTION                                                    |                  | Playground                                                                                   |                |                                                   |                                            |              |           |
| NAC                                                                |                  | C                                                                                            |                |                                                   |                                            |              |           |
| SLU Equivalent Residence (ER) Identification                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| Step                                                               | Sub-Step         | Description                                                                                  |                |                                                   |                                            |              | Value     |
| Average Single-Family Residence in Florida - Person Hours per Year |                  |                                                                                              |                |                                                   |                                            |              |           |
| A1                                                                 | a                | Average number of people in a single-family residence in Florida (US CENSUS, 2018-2022 data) |                |                                                   |                                            |              | 2.53      |
|                                                                    | b                | Hours a single-family residence is available for use (24 hours x 365 days)                   |                |                                                   |                                            |              | 8,760     |
|                                                                    | c                | Residential Person-Hours per Year Available for Use                                          |                |                                                   |                                            |              | 22,163    |
| SLU Person Hours per Year                                          |                  |                                                                                              |                |                                                   |                                            |              |           |
| A2                                                                 | a                | Average number of users per day in the area evaluated at the SLU                             |                |                                                   |                                            |              | 287       |
|                                                                    | b                | Approximate daily hourly usage by each person in the area evaluated at the SLU               |                |                                                   |                                            |              | 1.00      |
|                                                                    | c                | Number of days per week the SLU is operational                                               |                |                                                   |                                            |              | 5         |
|                                                                    | d                | Number of weeks per year the SLU is operational                                              |                |                                                   |                                            |              | 48        |
|                                                                    | e                | Person-Hours per Year Available for Use at the SLU                                           |                |                                                   |                                            |              | 68,880    |
| SLU Area Evaluated Equivalent Residence (ER)                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| A3                                                                 | a                | Equivalent Residence (ER)                                                                    |                |                                                   |                                            |              | 3.11      |
| SLU Receptor Equivalent Residence (ER)                             |                  |                                                                                              |                |                                                   |                                            |              |           |
| A4                                                                 | a                | Identify the number of receptors evaluated at the SLU                                        |                |                                                   |                                            |              | 1         |
|                                                                    | b                | Individual Receptor Equivalent Residence (i.e., each receptor point evaluated is worth...)   |                |                                                   |                                            |              | 3.108     |
| SLU Weighted Residential Vote Value                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| A5                                                                 | a                | Barrier ID Selected                                                                          |                |                                                   |                                            |              | CNE SB07  |
|                                                                    | b                | Number of votes Assigned to SLU in Barrier Voting Process (if applicable)                    |                |                                                   |                                            |              | #N/A      |
| Barrier Evaluation for SLU NSB07-01                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| Barrier ID                                                         | Barrier Location | Barrier Height                                                                               | Barrier Length | Number of Impacted and Benefited Receptors at SLU | Total Number of Benefited Receptors at SLU | Impacted BER | Total BER |
| 1                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    | Shoulder         | 14                                                                                           | 1171           |                                                   |                                            |              |           |
|                                                                    | Structure        | 8                                                                                            | 7536           |                                                   |                                            |              |           |
| 2                                                                  | ROW              | 22                                                                                           | 4322           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    | Shoulder         | 14                                                                                           | 1171           |                                                   |                                            |              |           |
|                                                                    | Structure        | 8                                                                                            | 7536           |                                                   |                                            |              |           |
| 3                                                                  | ROW              | 22                                                                                           | 2028           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    | Shoulder         | 0                                                                                            | 0              |                                                   |                                            |              |           |
|                                                                    | Structure        | 8                                                                                            | 3469           |                                                   |                                            |              |           |
| 4                                                                  |                  |                                                                                              |                | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 5                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 6                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 7                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 8                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |



|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|--------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|--------------------------------------------|--------------|-----------|
| SLU NAME                                                           |                  | Casa De Israel Yarah Church                                                                  |                |                                                   |                                            |              |           |
| SLU DESCRIPTION                                                    |                  | Front Entrance                                                                               |                |                                                   |                                            |              |           |
| NAC                                                                |                  | C                                                                                            |                |                                                   |                                            |              |           |
| SLU Equivalent Residence (ER) Identification                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| Step                                                               | Sub-Step         | Description                                                                                  |                |                                                   |                                            |              | Value     |
| Average Single-Family Residence in Florida - Person Hours per Year |                  |                                                                                              |                |                                                   |                                            |              |           |
| A1                                                                 | a                | Average number of people in a single-family residence in Florida (US CENSUS, 2018-2022 data) |                |                                                   |                                            |              | 2.53      |
|                                                                    | b                | Hours a single-family residence is available for use (24 hours x 365 days)                   |                |                                                   |                                            |              | 8,760     |
|                                                                    | c                | Residential Person-Hours per Year Available for Use                                          |                |                                                   |                                            |              | 22,163    |
| SLU Person Hours per Year                                          |                  |                                                                                              |                |                                                   |                                            |              |           |
| A2                                                                 | a                | Average number of users per day <i>in the area evaluated</i> at the SLU                      |                |                                                   |                                            |              | 100       |
|                                                                    | b                | Approximate daily hourly usage by each person <i>in the area evaluated</i> at the SLU        |                |                                                   |                                            |              | 0.5       |
|                                                                    | c                | Number of days per week the SLU is operational                                               |                |                                                   |                                            |              | 7         |
|                                                                    | d                | Number of weeks per year the SLU is operational                                              |                |                                                   |                                            |              | 52        |
|                                                                    | e                | Person-Hours per Year Available for Use at the SLU                                           |                |                                                   |                                            |              | 18,200    |
| SLU Area Evaluated Equivalent Residence (ER)                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| A3                                                                 | a                | Equivalent Residence (ER)                                                                    |                |                                                   |                                            |              | 0.82      |
| SLU Receptor Equivalent Residence (ER)                             |                  |                                                                                              |                |                                                   |                                            |              |           |
| A4                                                                 | a                | Identify the number of receptors evaluated at the SLU                                        |                |                                                   |                                            |              | 1         |
|                                                                    | b                | Individual Receptor Equivalent Residence (i.e., each receptor point evaluated is worth...)   |                |                                                   |                                            |              | 0.821     |
| SLU Weighted Residential Vote Value                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| A5                                                                 | a                | Barrier ID Selected                                                                          |                |                                                   |                                            |              | CNE SB07  |
|                                                                    | b                | Number of votes Assigned to SLU in Barrier Voting Process (if applicable)                    |                |                                                   |                                            |              | #N/A      |
| Barrier Evaluation for SLU NSB07-02                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| Barrier ID                                                         | Barrier Location | Barrier Height                                                                               | Barrier Length | Number of Impacted and Benefited Receptors at SLU | Total Number of Benefited Receptors at SLU | Impacted BER | Total BER |
| 1                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 2                                                                  | ROW              | 22                                                                                           | 4322           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 3                                                                  | ROW              | 22                                                                                           | 2028           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 4                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 5                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 6                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 7                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 8                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |

|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|--------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|--------------------------------------------|--------------|-----------|
| SLU NAME                                                           |                  | The Learning Experience Preschool                                                            |                |                                                   |                                            |              |           |
| SLU DESCRIPTION                                                    |                  | Playground                                                                                   |                |                                                   |                                            |              |           |
| NAC                                                                |                  | C                                                                                            |                |                                                   |                                            |              |           |
| SLU Equivalent Residence (ER) Identification                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| Step                                                               | Sub-Step         | Description                                                                                  |                |                                                   |                                            |              | Value     |
| Average Single-Family Residence in Florida - Person Hours per Year |                  |                                                                                              |                |                                                   |                                            |              |           |
| A1                                                                 | a                | Average number of people in a single-family residence in Florida (US CENSUS, 2018-2022 data) |                |                                                   |                                            |              | 2.53      |
|                                                                    | b                | Hours a single-family residence is available for use (24 hours x 365 days)                   |                |                                                   |                                            |              | 8,760     |
|                                                                    | c                | Residential Person-Hours per Year Available for Use                                          |                |                                                   |                                            |              | 22,163    |
| SLU Person Hours per Year                                          |                  |                                                                                              |                |                                                   |                                            |              |           |
| A2                                                                 | a                | Average number of users per day <i>in the area evaluated</i> at the SLU                      |                |                                                   |                                            |              | 287       |
|                                                                    | b                | Approximate daily hourly usage by each person <i>in the area evaluated</i> at the SLU        |                |                                                   |                                            |              | 1.00      |
|                                                                    | c                | Number of days per week the SLU is operational                                               |                |                                                   |                                            |              | 5         |
|                                                                    | d                | Number of weeks per year the SLU is operational                                              |                |                                                   |                                            |              | 48        |
|                                                                    | e                | Person-Hours per Year Available for Use at the SLU                                           |                |                                                   |                                            |              | 68,880    |
| SLU Area Evaluated Equivalent Residence (ER)                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| A3                                                                 | a                | Equivalent Residence (ER)                                                                    |                |                                                   |                                            |              | 3.11      |
| SLU Receptor Equivalent Residence (ER)                             |                  |                                                                                              |                |                                                   |                                            |              |           |
| A4                                                                 | a                | Identify the number of receptors evaluated at the SLU                                        |                |                                                   |                                            |              | 1         |
|                                                                    | b                | Individual Receptor Equivalent Residence (i.e., each receptor point evaluated is worth...)   |                |                                                   |                                            |              | 3.108     |
| SLU Weighted Residential Vote Value                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| A5                                                                 | a                | Barrier ID Selected                                                                          |                |                                                   |                                            |              | CNE SB07  |
|                                                                    | b                | Number of votes Assigned to SLU in Barrier Voting Process (if applicable)                    |                |                                                   |                                            |              | #N/A      |
| Barrier Evaluation for SLU NSB07-01                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| Barrier ID                                                         | Barrier Location | Barrier Height                                                                               | Barrier Length | Number of Impacted and Benefited Receptors at SLU | Total Number of Benefited Receptors at SLU | Impacted BER | Total BER |
| 1                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    | Shoulder         | 14                                                                                           | 1171           |                                                   |                                            |              |           |
|                                                                    | Structure        | 8                                                                                            | 7536           |                                                   |                                            |              |           |
| 2                                                                  | ROW              | 22                                                                                           | 4322           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    | Shoulder         | 14                                                                                           | 1171           |                                                   |                                            |              |           |
|                                                                    | Structure        | 8                                                                                            | 7536           |                                                   |                                            |              |           |
| 3                                                                  | ROW              | 22                                                                                           | 2028           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    | Shoulder         | 0                                                                                            | 0              |                                                   |                                            |              |           |
|                                                                    | Structure        | 8                                                                                            | 3469           |                                                   |                                            |              |           |
| 4                                                                  |                  |                                                                                              |                | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 5                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 6                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 7                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 8                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |

|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|--------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|--------------------------------------------|--------------|-----------|
| SLU NAME                                                           |                  | Casa De Israel Yarah Church                                                                  |                |                                                   |                                            |              |           |
| SLU DESCRIPTION                                                    |                  | Front Entrance                                                                               |                |                                                   |                                            |              |           |
| NAC                                                                |                  | C                                                                                            |                |                                                   |                                            |              |           |
| SLU Equivalent Residence (ER) Identification                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| Step                                                               | Sub-Step         | Description                                                                                  |                |                                                   |                                            |              | Value     |
| Average Single-Family Residence in Florida - Person Hours per Year |                  |                                                                                              |                |                                                   |                                            |              |           |
| A1                                                                 | a                | Average number of people in a single-family residence in Florida (US CENSUS, 2018-2022 data) |                |                                                   |                                            |              | 2.53      |
|                                                                    | b                | Hours a single-family residence is available for use (24 hours x 365 days)                   |                |                                                   |                                            |              | 8,760     |
|                                                                    | c                | Residential Person-Hours per Year Available for Use                                          |                |                                                   |                                            |              | 22,163    |
| SLU Person Hours per Year                                          |                  |                                                                                              |                |                                                   |                                            |              |           |
| A2                                                                 | a                | Average number of users per day <i>in the area evaluated</i> at the SLU                      |                |                                                   |                                            |              | 100       |
|                                                                    | b                | Approximate daily hourly usage by each person <i>in the area evaluated</i> at the SLU        |                |                                                   |                                            |              | 0.5       |
|                                                                    | c                | Number of days per week the SLU is operational                                               |                |                                                   |                                            |              | 7         |
|                                                                    | d                | Number of weeks per year the SLU is operational                                              |                |                                                   |                                            |              | 52        |
|                                                                    | e                | Person-Hours per Year Available for Use at the SLU                                           |                |                                                   |                                            |              | 18,200    |
| SLU Area Evaluated Equivalent Residence (ER)                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| A3                                                                 | a                | Equivalent Residence (ER)                                                                    |                |                                                   |                                            |              | 0.82      |
| SLU Receptor Equivalent Residence (ER)                             |                  |                                                                                              |                |                                                   |                                            |              |           |
| A4                                                                 | a                | Identify the number of receptors evaluated at the SLU                                        |                |                                                   |                                            |              | 1         |
|                                                                    | b                | Individual Receptor Equivalent Residence (i.e., each receptor point evaluated is worth...)   |                |                                                   |                                            |              | 0.821     |
| SLU Weighted Residential Vote Value                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| A5                                                                 | a                | Barrier ID Selected                                                                          |                |                                                   |                                            |              | CNE SB07  |
|                                                                    | b                | Number of votes Assigned to SLU in Barrier Voting Process (if applicable)                    |                |                                                   |                                            |              | #N/A      |
| Barrier Evaluation for SLU NSB07-02                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| Barrier ID                                                         | Barrier Location | Barrier Height                                                                               | Barrier Length | Number of Impacted and Benefited Receptors at SLU | Total Number of Benefited Receptors at SLU | Impacted BER | Total BER |
| 1                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 2                                                                  | ROW              | 22                                                                                           | 4322           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 3                                                                  | ROW              | 22                                                                                           | 2028           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 4                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 5                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 6                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 7                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 8                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |



|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|--------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|--------------------------------------------|--------------|-----------|
| SLU NAME                                                           |                  | Church of God & Pillar of Zion                                                               |                |                                                   |                                            |              |           |
| SLU DESCRIPTION                                                    |                  | Front Entrance                                                                               |                |                                                   |                                            |              |           |
| NAC                                                                |                  | C                                                                                            |                |                                                   |                                            |              |           |
| SLU Equivalent Residence (ER) Identification                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| Step                                                               | Sub-Step         | Description                                                                                  |                |                                                   |                                            |              | Value     |
| Average Single-Family Residence in Florida - Person Hours per Year |                  |                                                                                              |                |                                                   |                                            |              |           |
| A1                                                                 | a                | Average number of people in a single-family residence in Florida (US CENSUS, 2018-2022 data) |                |                                                   |                                            |              | 2.53      |
|                                                                    | b                | Hours a single-family residence is available for use (24 hours x 365 days)                   |                |                                                   |                                            |              | 8,760     |
|                                                                    | c                | Residential Person-Hours per Year Available for Use                                          |                |                                                   |                                            |              | 22,163    |
| SLU Person Hours per Year                                          |                  |                                                                                              |                |                                                   |                                            |              |           |
| A2                                                                 | a                | Average number of users per day <i>in the area evaluated</i> at the SLU                      |                |                                                   |                                            |              | 100       |
|                                                                    | b                | Approximate daily hourly usage by each person <i>in the area evaluated</i> at the SLU        |                |                                                   |                                            |              | 0.5       |
|                                                                    | c                | Number of days per week the SLU is operational                                               |                |                                                   |                                            |              | 7         |
|                                                                    | d                | Number of weeks per year the SLU is operational                                              |                |                                                   |                                            |              | 52        |
|                                                                    | e                | Person-Hours per Year Available for Use at the SLU                                           |                |                                                   |                                            |              | 18,200    |
| SLU Area Evaluated Equivalent Residence (ER)                       |                  |                                                                                              |                |                                                   |                                            |              |           |
| A3                                                                 | a                | Equivalent Residence (ER)                                                                    |                |                                                   |                                            |              | 0.82      |
| SLU Receptor Equivalent Residence (ER)                             |                  |                                                                                              |                |                                                   |                                            |              |           |
| A4                                                                 | a                | Identify the number of receptors evaluated at the SLU                                        |                |                                                   |                                            |              | 1         |
|                                                                    | b                | Individual Receptor Equivalent Residence (i.e., each receptor point evaluated is worth...)   |                |                                                   |                                            |              | 0.821     |
| SLU Weighted Residential Vote Value                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| A5                                                                 | a                | Barrier ID Selected                                                                          |                |                                                   |                                            |              | CNE SB08  |
|                                                                    | b                | Number of votes Assigned to SLU in Barrier Voting Process (if applicable)                    |                |                                                   |                                            |              | #N/A      |
| Barrier Evaluation for SLU NSB08-02                                |                  |                                                                                              |                |                                                   |                                            |              |           |
| Barrier ID                                                         | Barrier Location | Barrier Height                                                                               | Barrier Length | Number of Impacted and Benefited Receptors at SLU | Total Number of Benefited Receptors at SLU | Impacted BER | Total BER |
| 1                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    | Shoulder         | 14                                                                                           | 1171           |                                                   |                                            |              |           |
|                                                                    | Structure        | 8                                                                                            | 7536           |                                                   |                                            |              |           |
| 2                                                                  | ROW              | 22                                                                                           | 4322           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    | Shoulder         | 14                                                                                           | 1171           |                                                   |                                            |              |           |
|                                                                    | Structure        | 8                                                                                            | 7536           |                                                   |                                            |              |           |
| 3                                                                  | ROW              | 22                                                                                           | 2028           | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    | Shoulder         | 0                                                                                            | 0              |                                                   |                                            |              |           |
|                                                                    | Structure        | 8                                                                                            | 3469           |                                                   |                                            |              |           |
| 4                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 5                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 6                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 7                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
| 8                                                                  | ROW              | 0                                                                                            | 0              | 0                                                 | 0                                          | 0.00         | 0.00      |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |
|                                                                    |                  |                                                                                              |                |                                                   |                                            |              |           |

# **Appendix G**

## **Field Data Sheets**

# Noise Measurement Data Sheet



Date: 8/26/25

Measurement Taken By: Robbin Ossi, AICP

Project: CPP East from US 17/92 to Poinciana Connector (SR 538) FM#451419-1

Site ID: Tiny Flower Rd

Weather Conditions: Clear: \_\_\_\_\_ Partly Cloudy: X Cloudy: \_\_\_\_\_ Other: \_\_\_\_\_

Temperature: Start: 84° End: \_\_\_\_\_ (°F)

Wind Direction: Start: W End: \_\_\_\_\_

Wind Speed (Start): Min: 3 MPH Max: 4+ MPH Average: \_\_\_\_\_ (mph)

Wind Speed (End): Min: \_\_\_\_\_ Max: \_\_\_\_\_ Average: \_\_\_\_\_ (mph)

Humidity: Start: 81% End: \_\_\_\_\_ (%)

## Equipment Data

Sound Level Meter: **Extech 407780A**

Serial Number: **Z360539**

Date of Last Traceable Calibration: **02/21/2025**

Calibration: Start: 114 End: 114

Battery: Start: X End: X

Weighting Scale: **A**

Response: **Slow**

Calibrator: **Extech 407766**

Serial Number: **Z362129**

## Site Sketch

US 17/92 NB

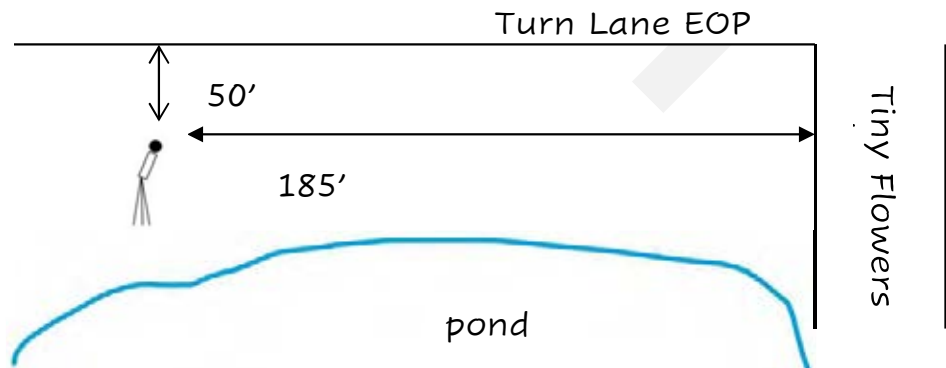
Session Time

10:46-10:56 65.2 dBA

11:00-11:10 64.6 dBA

11:13-11:23 65.4 dBA

- 17/92 Main Source
- Yard equipment
- Pond fountain





# Ambient Noise Measurement Data Sheet



Date: 8/26/25

Measurement Taken By: Robbin Ossi, AICP

Project: CPP East from US 17/92 to Poinciana Connector (SR 538)

Site ID: Preservation Pointe

Weather Conditions: Clear: \_\_\_\_\_ Partly Cloudy: X Cloudy: \_\_\_\_\_ Other: \_\_\_\_\_

Temperature: Start: 80° End: \_\_\_\_\_ (°F)

Wind Direction: Start: WSW End: \_\_\_\_\_

Wind Speed (Start): Min: 4 MPH Max: 6-7 MPH Average: \_\_\_\_\_ (mph)

Wind Speed (End): Min: \_\_\_\_\_ Max: \_\_\_\_\_ Average: \_\_\_\_\_ (mph)

Humidity: Start: 84% End: \_\_\_\_\_ (%)

## Equipment Data

Sound Level Meter: **Extech 407780A**

Serial Number: Z360539

Date of Last Traceable Calibration: 02/21/2025

Calibration: Start: 114 End: 114

Battery: Start: X End: X

Weighting Scale: **A**

Response: **Slow**

Calibrator: **Extech 407766**

Serial Number: **Z362129**

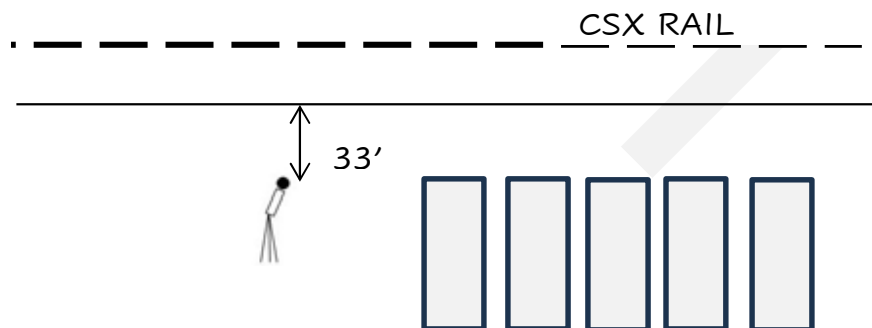
## Site Sketch

### Session Time

9:28-9:38 47.3 dBA

9:40-9:50 44.9 dBA

1:47-1:57 45.2 dBA



SCRUB  
OAK  
HAMMOCK  
RD

SAWGRASS HAMMOCK LN

## Observed Field Data

|                                                                                                                                              |                              |                                |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|
| <b>Session #1</b>                                                                                                                            | <b>Session Time: 9:28 AM</b> | <b>Results Leq dB(A): 47.3</b> |
| <b>Noise Sources:</b> <ul style="list-style-type: none"><li>• Dump truck entering subdivision well behind meter.</li><li>• Insects</li></ul> |                              |                                |
| <b>Other Observations:</b> <p>Train track slightly higher elevation than house grades.</p>                                                   |                              |                                |

|                                                                                                                     |                              |                                |
|---------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|
| <b>Session #2</b>                                                                                                   | <b>Session Time: 9:40 AM</b> | <b>Results Leq dB(A): 44.9</b> |
| <b>Noise Sources:</b> <ul style="list-style-type: none"><li>• Construction in distance.</li><li>• Insects</li></ul> |                              |                                |
| <b>Other Observations:</b>                                                                                          |                              |                                |

|                                                                                 |                              |                                |
|---------------------------------------------------------------------------------|------------------------------|--------------------------------|
| <b>Session #3</b>                                                               | <b>Session Time: 1:47 PM</b> | <b>Results Leq dB(A): 45.2</b> |
| <b>Noise Sources:</b> <ul style="list-style-type: none"><li>• Insects</li></ul> |                              |                                |

2 of 2