

NOISE STUDY REPORT

Camelia Ridge HARTSVILLE, SOUTH
CAROLINA OCTOBER 22, 2024
INSIGHT NUMBER 09-240220

Prepared for:

KCG Companies, LLC
9311 N. Meridian Street, Suite 100
Indianapolis, IN 46260

Reliance to:

South Carolina State Housing and Finance Authority

Prepared by:

Insight Group, LLC
3359 Meeting Street, Suite 101
North Charleston, South Carolina





October 22, 2024

KCG Companies, LLC

Attn: Daniel Gerber
(317)708-0943
NSloan@kcgcompanies.com

Re: Noise Study Report
Camelia RidgeHartsville, South Carolina
Insight Group Number: 09-240220

Dear Gerber:

The purpose of this report is to present the findings of the HUD Noise Study for the future Camelia Ridge in Hartsville, South Carolina. This report presents our understanding of the proposed improvements, the site and noise sources, calculations and conclusions. The calculations indicated that predicted noise levels are **below the HUD guidelines** of 65 decibels and **no further action is required**.

We appreciate the opportunity to be of service to KCG Companies, LLC on this project. If you have any questions concerning this submittal, or if we may be of further service, please contact us.

Sincerely,
Insight Group, LLC

A handwritten signature in black ink, appearing to read 'Matt Silveston'.

Matthew L. Silveston, P.E.
Partner



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	Airport Master Records
	Rail Inventory Report
Exhibit C	Distances to Noise Sources

1 INTRODUCTION

Insight Group has completed the Noise Study for the Camelia Ridge in Hartsville, South Carolina in general accordance with our proposal dated August 26 and updated October 3, 2024. The purpose of this report is to assess noise conditions based on multiple sources and determine if noise mitigation measures are required.

The Noise Study was performed in accordance with the *South Carolina Housing Environmental Review Manual* requirements. Insight Group evaluated the projected noise conditions using procedures from The Noise Guidebook published by US Department of Housing and Urban Development. The modeling uses published traffic data from SCDOT, Federal Aviation Administration Airport Master Records, Federal Railroad Administration and US DOT Crossing Inventory and calculations were performed using HUD's Resource Center DNL Calculator.

2 PROJECT INFORMATION

2.1 Site Location and Current Condition

The proposed location for the apartments to be constructed is south of East Washington St in Hartsville, SC. Approximate coordinates of the site are 34°21'52.90" -80°03'30.12". The current condition of the property is a cleared lot in a commercial area.

2.2 Project Description

The proposed construction will consist of eleven multi-story apartment buildings with a playground and separate clubhouse building. Two stormwater ponds will be located on the northern portion of the lot.

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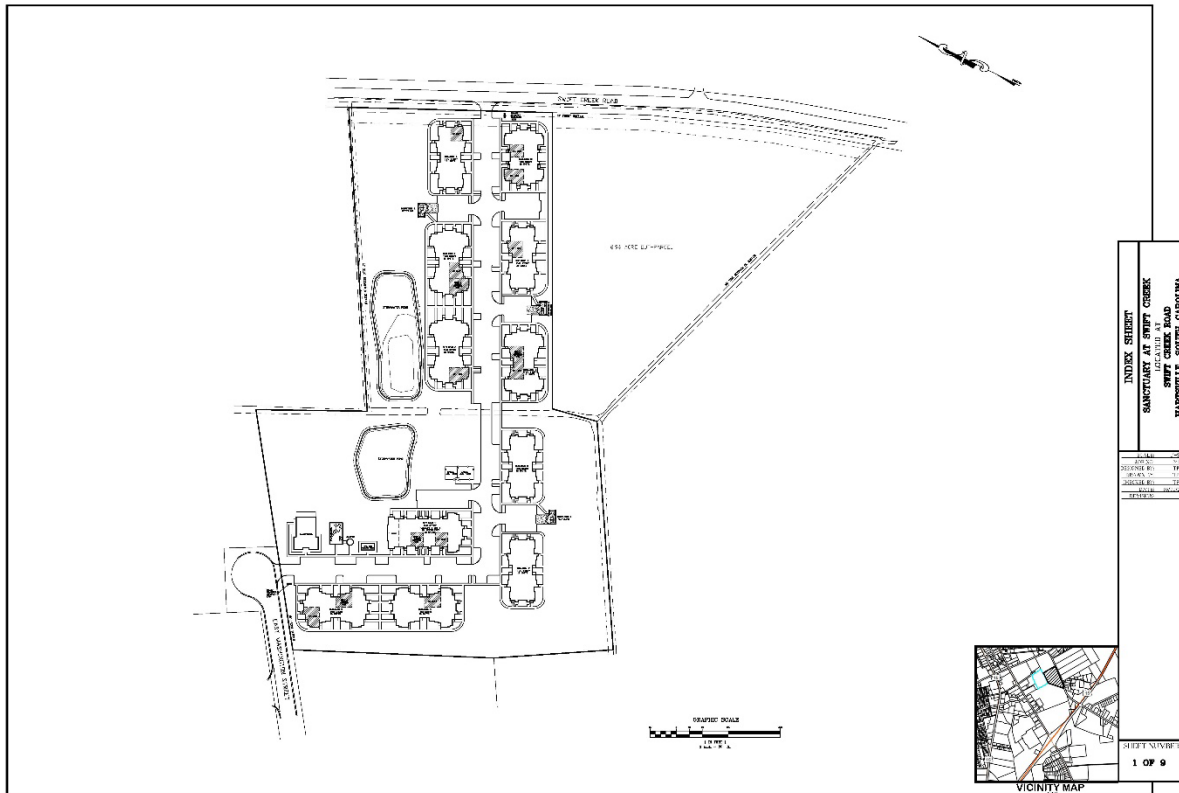


Figure 1: Proposed site plan for the Camelia Ridge

3 NOISE STANDARDS & CALCULATIONS

3.1 HUD Day/Night Noise Level Calculator

Noise calculations were made using HUD's Day/Night Noise Level Calculator. The Environmental Planning Division has developed the Day/Night Noise Level Calculator, an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. This is a web-based application of the existing Noise Assessment Guidelines (NAG). Derivations of the basic noise equation from the noise regulation, 24 CFR Part 51 Subpart B, were applied to a new application of the NAG.

Site Acceptability Standards:

Exterior noise levels: Proposed HUD-assisted projects with a day-night average sound level of below 65 decibels are acceptable (see Standards in 24 CFR Part 51.103)

3.2 Noise Inputs & Calculations

The source of the noise calculations is based on nearby roadway traffic, railroads and airports.

Roadways The road traffic data has been provided by SCDOT and the most recent traffic counts are from 2023. The roadways within 1,000ft that have been considered for the noise analysis are S Fourth St (SC151) and Swift Creek Road. US Highway 15 is 1,780ft from the nearest proposed building and have not been included in the analysis. East Washington St is close to the project site but AADT data for this segment is unavailable and based on the definition from HUD, only major roadways with readily available traffic data should be considered in noise calculations. However, West Washington St has been included in the calculations

The calculated Average Daily Traffic (ADT) for a 10 year (2023 to 2033) projection based the formula provided by HUD¹ using a 2.5% growth rate.

$$\text{Future Year AADT} = \text{Base Year AADT} * (1 + \text{Growth Rate})^{\text{Years in the future}}$$

Calculated 2033 ADT

- S Fourth St (SC151): Approximately 17,281 vehicles
- Swift Creek Rd: Approximately 1,664 vehicles
- West Washington St: Approximately 6,656 vehicles

Railroad The railroad data from tracks within 3,000ft is from the Federal Railroad Administration. The rail line is operated by South Carolina Central Railroad Company and located approximately 800ft to the north. The Average Train Operations (ATO) is 4 and the Night Fraction of the ATO is 37.5%. Train data is based on the FRA Rail Crossing Inventory and the rail impacts have been included in the noise calculations. The inventory report is included in the Appendix. Another rail line is beyond 3,000ft to the northeast and has not been considered in the noise calculations per HUD guidelines.

¹ *State of South Carolina Documentation Sources For HUD Environmental Reviews, September 23, 2024*

by: Lenwood E. Smith, II, Environmental Protection Specialist

Greensboro Field Office, US Department of Housing and Urban Development

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Airports

There are 4 airports within a 15mile radius. This includes the Hartsville Regional Airport, Lee County Airport, Curry Airport SC16, and Darlington County Jetport. Airport Master Records and Reports were reviewed for these airports and airfields. All these facilities had annual operations less than 9,000, and based on SC Housing Environmental Manual, it is assumed that noise attributed to the airplanes will not extend beyond the boundaries of the airport and the potential effect of the airport noise **does not** have to be considered. The Airport Master Records have been included in the Appendix.

Table 1: Inputs for HUD DNL Noise Calculations

	Current Data	2033 Estimated Predictions
Road #1	Swift Creek Road	
Effective Distance	60ft	
Distance to Stop Sign	>600ft	
Average Speed	35 mph	
ADT	1,300	1,664
Heavy Trucks	3%	
Night Fraction ADT	15%	15%
Vehicle DNL	59	60
Road #2	S 4 th St	
Effective Distance	855ft	
Distance to Stop Sign	855ft	
Average Speed	40 mph	
ADT	13,500	17,281
Heavy Trucks	3%	
Night Fraction ADT	15%	15%
Vehicle DNL	52	53
Road #3	West Washington St	
Effective Distance	910ft	
Distance to Stop Sign	910ft	
Average Speed	35 mph	
ADT	5,200	6,656
Heavy Trucks	3%	
Night Fraction ADT	15%	15%
Vehicle DNL	46	48

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Railroad	South Carolina Central Railroad Company	
Crossing ID	632863L	
Effective Distance	800ft	
Avg Train Speed	10mph (max)	
Railway Cars per Train	50	
Average Train Operations	4	
Night Fraction of ATO	38	
Train DNL	51	
Combined DNL for all Road and Rail sources	61	62

4 CONCLUSIONS

Based on the traffic data, the HUD's Day/Night Noise Level calculations predict noise levels below the level of 65 decibels. No further action is required.

5 LIMITATIONS OF REPORT

These services and this report have been performed in accordance with the local standard of practice. These recommendations apply only to the specific project referenced herein. Conclusions and recommendations are based on the published data. Insight Group should review final plans and re-analyze noise levels if the site layout is modified.

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APPENDICES

Exhibit A

Site Location Plan

Exhibit B

SCDOT Average Daily Traffic Data

Airport Master Records

Rail Inventory Report

Exhibit C

Distances to Noise Sources

Noise Study Report

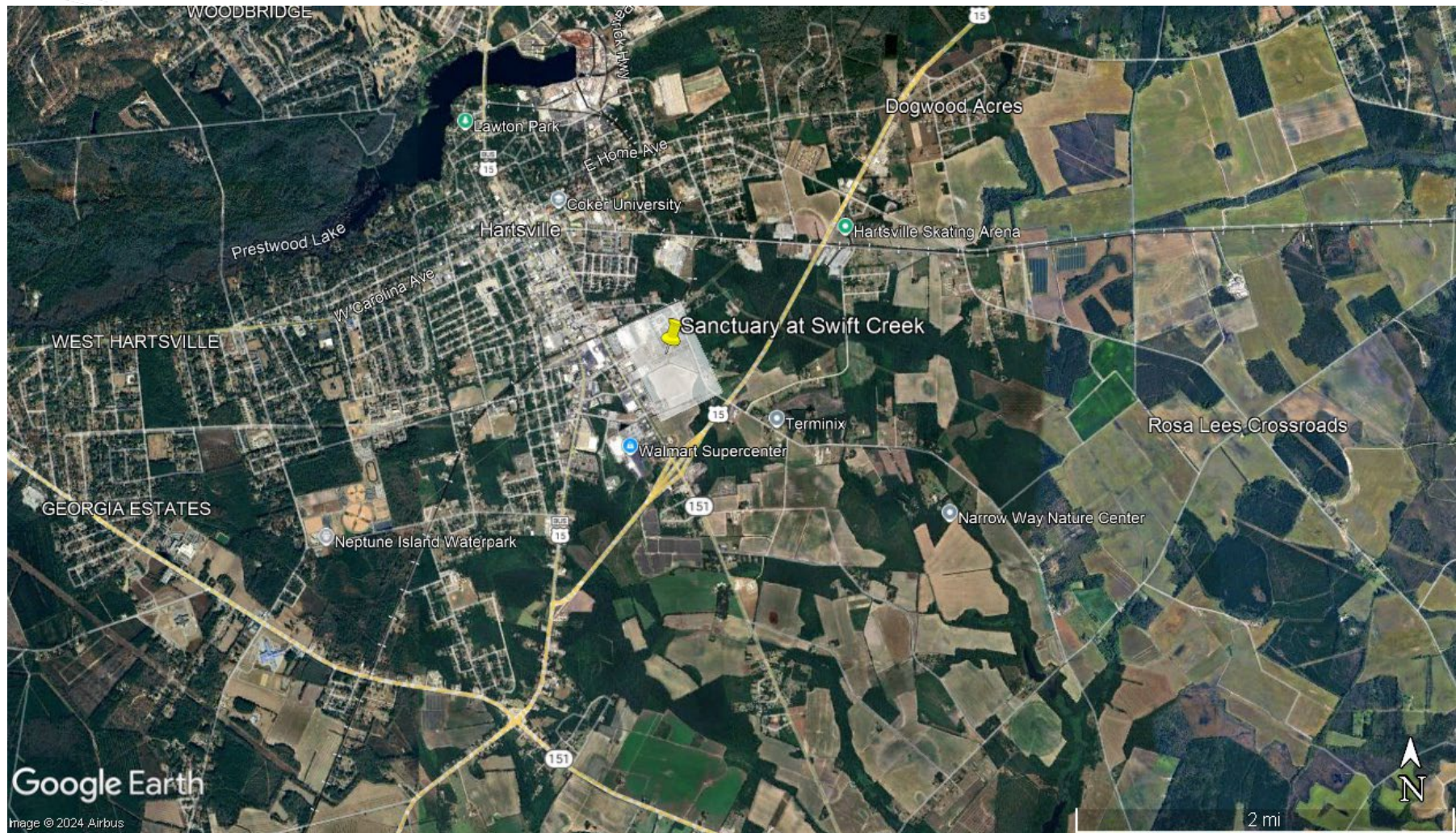
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EXHIBIT A

Site Location Plan



Legend



3359 Meeting St. N. Charleston, SC 29405

Phone: (843) 779 9824 InsightGrp.com

Project Name: Camelia Ridge

Project Number: 09-240220

Date: 10/21/2024

Site Location

Camelia Ridge
Noise Study

Hartsville

South Carolina

Exhibit

A

Noise Study Report

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EXHIBIT B

SCDOT Average Daily Traffic Data

Airport Master Records

Rail Inventory Report

Noise Study Report

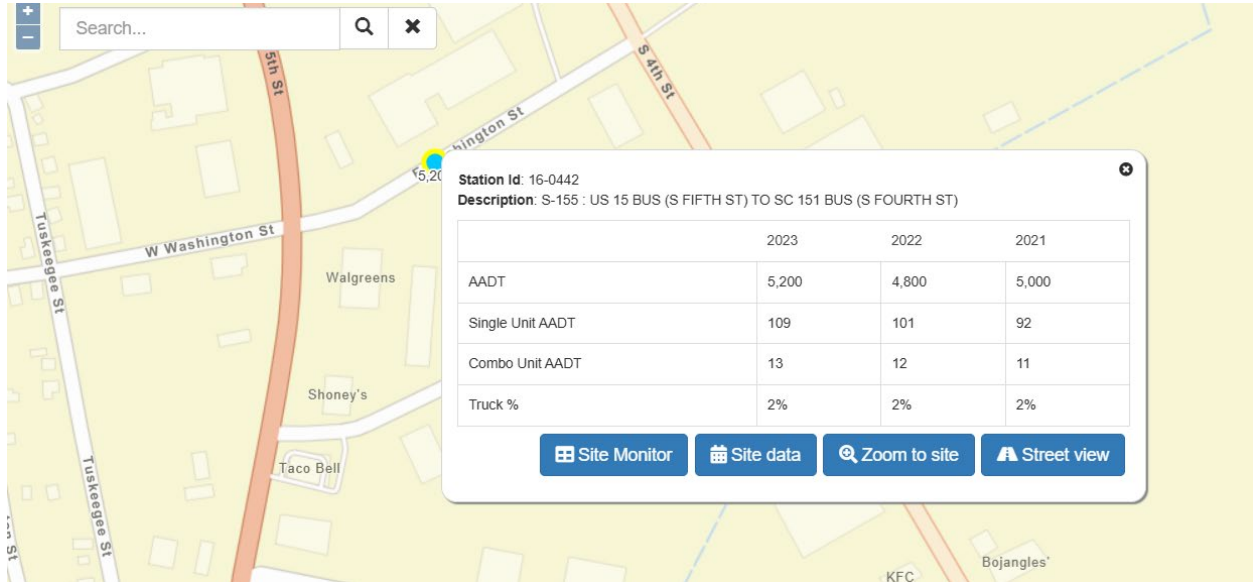
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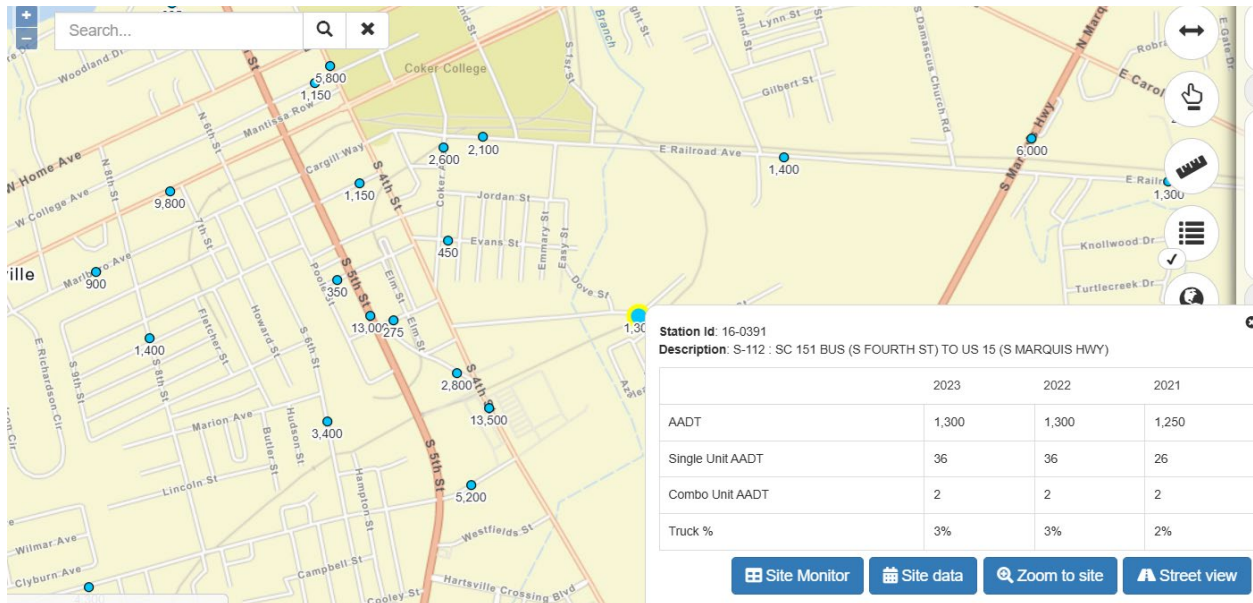


TRAFFIC DATA

5.1 West Washington Ave



5.2 Swift Creek Road



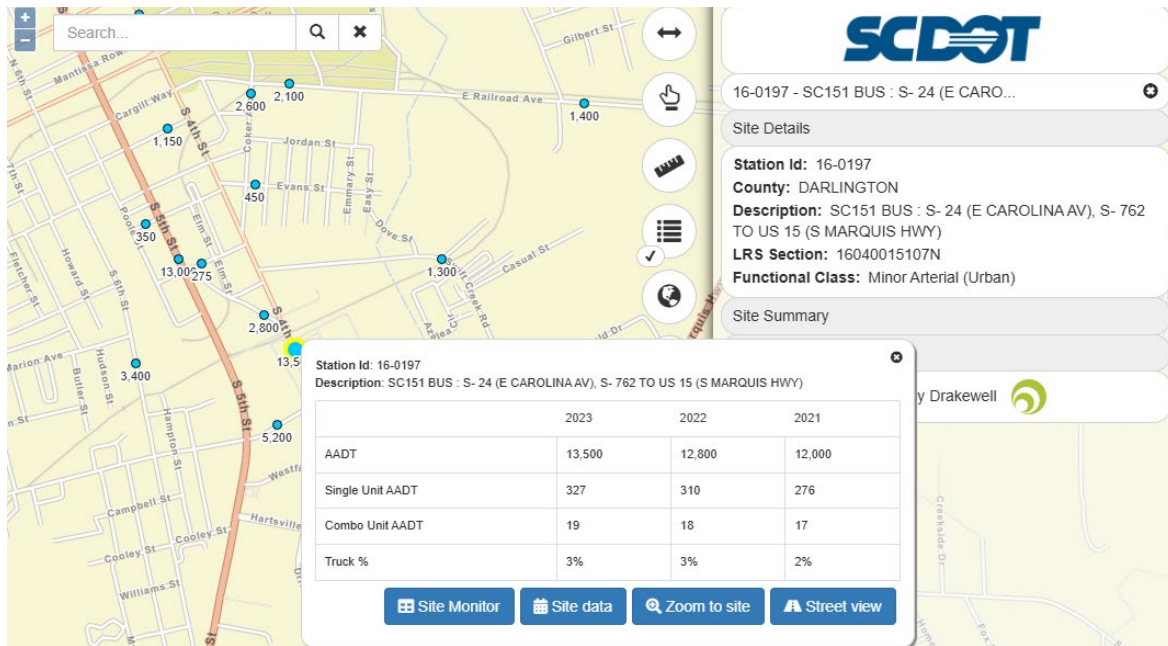
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5.3 S 4th St



Noise Study Report

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Traffic ADT

YEAR	South Fourth St	Swift Creek Rd	West Washington st
1987	NA	1150	NA
1988	8300	1150	NA
1989	7800	1150	NA
1990	7500	950	3700
1991	8400	900	3800
1992	10100	1000	3300
1993	10800	1000	3500
1994	10700	1050	3600
1995	12600	1100	3600
1996	12800	1100	3400
1997	11800	1100	4200
1998	11600	1250	4800
1999	11400	1550	3900
2000	11000	1250	4500
2001	12600	1600	3800
2002	13700	1700	3700
2003	14100	1750	3500
2004	13300	1700	3500
2005	12400	1650	3500
2006	13900	1650	3400
2007	13700	1650	4200
2008	13100	1600	4300
2009	13500	1600	4800
2010	12900	1550	4700
2011	13300	1500	4900
2012	12600	1300	4500
2013	12400	1300	4400
2014	12800	1200	5200
2015	12700	1350	5400
2016	12700	1400	5100
2017	12200	1250	4800
2018	14100	1450	5200
2019	14000	1400	5400
2020	11100	1200	4600
2021	12000	1250	5000
2022	12800	1300	4800

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U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		AIRPORT MASTER RECORD		PRINT DATE: 3/6/2024 AFD EFF 02/22/2024 FORM APPROVED OMB 2120-0015																																																																																																																																			
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U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		<h1 style="margin: 0;">AIRPORT MASTER RECORD</h1>		PRINT DATE: 3/6/2024 AFD EFF 02/22/2024 FORM APPROVED OMB 2120-0015																																																			
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<u>GENERAL</u> 10 OWNERSHIP: PUBLIC > 11 OWNER: LEE COUNTY > 12 ADDRESS: 123 S. MAIN ST BISHOPVILLE, SC 29010 > 13 PHONE NR: 803-484-5341 > 14 MANAGER: GEORGE ROBERTS > 15 ADDRESS: 412 MEADOWS LANE BISHOPVILLE, SC 29010 > 16 PHONE NR: 803-229-2679 > 17 ATTENDANCE SCHEDULE: UNATNDD		<u>SERVICES</u> > 70 FUEL: 100LL > 71 AIRFRAME RPRS: NONE > 72 PWR PLANT RPRS: NONE > 73 BOTTLE OXYGEN: NONE > 74 BULK OXYGEN: NONE 75 TSNT STORAGE: TIE 76 OTHER SERVICES: AGRI		<u>BASED AIRCRAFT</u> 90 SINGLE ENG: 9 91 MULTI ENG: 0 92 JET: 0 93 HELICOPTERS: 1 TOTAL: 10 94 GLIDERS: 0 95 MILITARY: 0 96 ULTRA-LIGHT: 0																																																			
		<u>FACILITIES</u> > 80 ARPT BCN: WG > 81 ARPT LGT SKED : SEE RMK BCN LGT SKED: SS-SR > 82 UNICOM: > 83 WIND INDICATOR: YES-L 84 SEGMENTED CIRCLE: YES 85 CONTROL TWR: NO 86 FSS: ANDERSON 87 FSS ON ARPT: NO 88 FSS PHONE NR: 89 TOLL FREE NR: 1-800-WX-BRIEF		<u>OPERATIONS</u> 100 AIR CARRIER: 0 102 AIR TAXI: 0 103 G A LOCAL: 263 104 G A ITNRNT: 437 105 MILITARY: 0 TOTAL: 700 OPERATIONS FOR 12 MONTHS ENDING: 09/19/2020																																																			
<u>RUNWAY DATA</u> > 30 RUNWAY IDENT: 06/24 > 31 LENGTH: 3,200 > 32 WIDTH: 60 > 33 SURF TYPE-COND: ASPH-G > 34 SURF TREATMENT: NONE 35 GROSS WT: S 12.5 36 (IN THSDS) D 25.0 37 2D 38 2D/D2 > 39 PCN:		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">LIGHTING/APCH AIDS</td> </tr> <tr> <td style="width: 50%;">> 40 EDGE INTENSITY:</td> <td>MED</td> </tr> <tr> <td>> 42 RWY MARK TYPE-COND:</td> <td>BSC - F / BSC - F</td> </tr> <tr> <td>> 43 VGSi:</td> <td>P2L / P2L</td> </tr> <tr> <td>44 THR CROSSING HGT.:</td> <td>32 / 32</td> </tr> <tr> <td>45 VISUAL GLIDE ANGLE:</td> <td>3.00 / 3.00</td> </tr> <tr> <td>> 46 CNTRLN-TDZ:</td> <td>- / -</td> </tr> <tr> <td>> 47 RVR-RVV:</td> <td>- / -</td> </tr> <tr> <td>> 48 REL:</td> <td>/</td> </tr> <tr> <td>> 49 APCH LIGHTS:</td> <td>/</td> </tr> <tr> <td colspan="2" style="text-align: center;">OBSTRUCTION DATA</td> </tr> <tr> <td>50 FAR 77 CATEGORY</td> <td>A(V) / A(V)</td> </tr> <tr> <td>> 51 DISPLACD THR:</td> <td>/</td> </tr> <tr> <td>> 52 CTLG OBSTN:</td> <td>TREES / TREES</td> </tr> <tr> <td>> 53 OBSTN MARKED/LGTD:</td> <td>/</td> </tr> <tr> <td>> 54 HGT ABOVE RWY END:</td> <td>29 / 58</td> </tr> <tr> <td>> 55 DIST FROM RWY END:</td> <td>368 / 1,322</td> </tr> <tr> <td>> 56 CNTRLN OFFSET:</td> <td>116L / 81L</td> </tr> <tr> <td>57 OBSTN CLNC SLOPE:</td> <td>5:1 / 19:1</td> </tr> <tr> <td>58 CLOSE-IN OBSTN:</td> <td>Y / N</td> </tr> <tr> <td colspan="2" style="text-align: center;">DECLARED DISTANCES</td> </tr> <tr> <td>> 60 TAKE OFF RUN AVBL (TORA):</td> <td>/</td> </tr> <tr> <td>> 61 TAKE OFF DIST AVBL (TODA):</td> <td>/</td> </tr> <tr> <td>> 62 ACLT STOP DIST AVBL (ASDA):</td> <td>/</td> </tr> <tr> <td>> 63 LGND DIST AVBL (LDA):</td> <td>/</td> </tr> </table>				LIGHTING/APCH AIDS		> 40 EDGE INTENSITY:	MED	> 42 RWY MARK TYPE-COND:	BSC - F / BSC - F	> 43 VGSi:	P2L / P2L	44 THR CROSSING HGT.:	32 / 32	45 VISUAL GLIDE ANGLE:	3.00 / 3.00	> 46 CNTRLN-TDZ:	- / -	> 47 RVR-RVV:	- / -	> 48 REL:	/	> 49 APCH LIGHTS:	/	OBSTRUCTION DATA		50 FAR 77 CATEGORY	A(V) / A(V)	> 51 DISPLACD THR:	/	> 52 CTLG OBSTN:	TREES / TREES	> 53 OBSTN MARKED/LGTD:	/	> 54 HGT ABOVE RWY END:	29 / 58	> 55 DIST FROM RWY END:	368 / 1,322	> 56 CNTRLN OFFSET:	116L / 81L	57 OBSTN CLNC SLOPE:	5:1 / 19:1	58 CLOSE-IN OBSTN:	Y / N	DECLARED DISTANCES		> 60 TAKE OFF RUN AVBL (TORA):	/	> 61 TAKE OFF DIST AVBL (TODA):	/	> 62 ACLT STOP DIST AVBL (ASDA):	/	> 63 LGND DIST AVBL (LDA):	/
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>] ARPT MGR PLEASE ADVISE FSS IN ITEM 86 WHEN CHANGES OCCUR TO ITEMS PRECEDED BY >																																																							
> 110 REMARKS A 043 RWY 06 PAPI UNUSBL BYD 3 DEG LEFT OF CNTRLN. A 043 RWY 24 PAPI UNUSBL BYD 6 DEG LEFT OF CNTRLN. A 058 RWY 06 TREES 19' HIGH 105' LEFT OF CNTRLN 142' FROM RWY END A 070 FUEL 24 HR CREDIT CARD SVC AVBL. FOR ASSISTANCE CALL 803-484-3296/229-2679. A 076 AG OPERATIONS AT AIRPORT A 081 ACTVT MIRL RY 6/24 & PAPI RY 06 AND RY 24 - CTAF. A 110-001 WILDLIFE ON AND INVOF ARPT. A 110-002 FOR CD CTC SHAW APCH AT 803-895-4884, WHEN APCH CLSD CTC JACKSONVILLE ARTCC AT 904-845-1592.																																																							

Noise Study Report

Camelia Ridge | Hartsville, SC

October 22, 2024 | Insight Group No. 09-240220



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		AIRPORT MASTER RECORD		PRINT DATE: 3/6/2024 AFD EFF 02/22/2024 FORM APPROVED OMB 2120-0015
> 1 ASSOC CITY: HARTSVILLE		4 STATE: SC	LOC ID: SC16	FAA SITE NR: 22324.2*A
> 2 AIRPORT NAME: CURRY		5 COUNTY: DARLINGTON SC		
3 CBD TO AIRPORT (NM): 03 E		6 REGION/ADO: ASO/ATL	7 SECT AERO CHT: CHARLOTTE	
GENERAL		SERVICES		BASED AIRCRAFT
10 OWNERSHIP: PRIVATE		> 70 FUEL:		90 SINGLE ENG: 1
> 11 OWNER: B. W. CURRY				91 MULTI ENG: 0
> 12 ADDRESS: PO BOX 294				92 JET: 0
HARTSVILLE, SC 29550				93 HELICOPTERS: 0
> 13 PHONE NR: 803-332-9351				TOTAL: 1
> 14 MANAGER: B. W. CURRY				94 GLIDERS: 0
> 15 ADDRESS: PO BOX 294				95 MILITARY: 0
HARTSVILLE, SC 29550				96 ULTRA-LIGHT: 0
> 16 PHONE NR: 803-332-9351				
> 17 ATTENDANCE SCHEDULE:		FACILITIES		
MAY-SEP	MON-FRI	0700-1800		
18 AIRPORT USE: PRIVATE		> 80 ARPT BCN:		
19 ARPT LAT: 34-22-40.5560N ESTIMATED		> 81 ARPT LGT SKED:		
20 ARPT LONG: 080-00-19.2370W		BCN LGT SKED:		
21 ARPT ELEV: 199.0 SURVEYED		> 82 UNICOM:		
22 ACREAGE: 6		> 83 WIND INDICATOR: YES		
> 23 RIGHT TRAFFIC:		84 SEGMENTED CIRCLE: NONE		
> 24 NON-COMM LANDING: NO		85 CONTROL TWR: NO		
		86 FSS: ANDERSON		
		87 FSS ON ARPT: NO		
		88 FSS PHONE NR:		
		89 TOLL FREE NR: 1-800-WX-BRIEF		
RUNWAY DATA				
> 30 RUNWAY IDENT:		01/19		
> 31 LENGTH:		2,600		
> 32 WIDTH:		200		
> 33 SURF TYPE-COND:		TURF		
LIGHTING/APCH AIDS				
> 40 EDGE INTENSITY:		- / -		
> 42 RWY MARK TYPE-COND:		- / -		
OBSTRUCTION DATA				
50 FAR 77 CATEGORY		/		
> 51 DISPLACED THR:		/		
> 52 CTLG OBSTN:		TREES / TREES		
> 53 OBSTN MARKED/LGTD:		/		
> 54 HGT ABOVE RWY END:		/ 50		
> 55 DIST FROM RWY END:		/ 100		
> 110 REMARKS				
A 110-001 FOR CD CTC FLORENCE APCH AT 843-669-5194, WHEN APCH CLSD CTC JACKSONVILLE ARTCC AT 904-845-1592.				
111 INSPECTOR: (N)				
112 LAST INSP:				
113 LAST INFO REQ: 08/04/1994				

Noise Study Report

Camelia Ridge | Hartsville, SC

October 22, 2024 | Insight Group No. 09-240220



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		AIRPORT MASTER RECORD		PRINT DATE: 3/6/2024 AFD EFF 02/22/2024 FORM APPROVED OMB 2120-0015																																																																																																																																																							
> 1 ASSOC CITY: DARLINGTON > 2 AIRPORT NAME: DARLINGTON COUNTY 3 CBD TO AIRPORT (NM): 09 N		4 STATE: SC 6 REGION/ADO: ASO/ATL		LOC ID: UDG 5 COUNTY: DARLINGTON SC 7 SECT AERO CHT: CHARLOTTE																																																																																																																																																							
GENERAL 10 OWNERSHIP: PUBLIC > 11 OWNER: DARLINGTON COUNTY > 12 ADDRESS: COUNTY COURTHOUSE DARLINGTON, SC 29532 > 13 PHONE NR: (843) 393-4100 > 14 MANAGER: BARRY KENNETT > 15 ADDRESS: 313 G. GRAHAM SEGARS PARKWAY DARLINGTON, SC 29540 > 16 PHONE NR: 843-393-9928 > 17 ATTENDANCE SCHEDULE: ALL MON-FRI 0800-1700 18 AIRPORT USE: PUBLIC 19 ARPT LAT: 34-26-50.9600N ESTIMATED 20 ARPT LONG: 079-53-11.1270W 21 ARPT ELEV: 192.2 SURVEYED 22 ACREAGE: 635 > 23 RIGHT TRAFFIC: NO > 24 NON-COMM LANDING: NO 25 NPIAS/FED AGREEMENTS: NGY3 > 26 FAR 139 INDEX:		SERVICES > 70 FUEL: 100LL A > 71 AIRFRAME RPRS: NONE > 72 PWR PLANT RPRS: NONE > 73 BOTTLE OXYGEN: NONE > 74 BULK OXYGEN: NONE 75 TSNT STORAGE: HGR, TIE 76 OTHER SERVICES: FACILITIES > 80 ARPT BCN: WG > 81 ARPT LGT SKED: SEE RMK BCN LGT SKED: SS-SR > 82 UNICOM: 123.000 > 83 WIND INDICATOR: YES 84 SEGMENTED CIRCLE: YES 85 CONTROL TWR: NO 86 FSS: ANDERSON 87 FSS ON ARPT: NO 88 FSS PHONE NR: 89 TOLL FREE NR: 1-800-WX-BRIEF		BASED AIRCRAFT 90 SINGLE ENG: 9 91 MULTI ENG: 0 92 JET: 2 93 HELICOPTERS: 0 TOTAL: 11 94 GLIDERS: 0 95 MILITARY: 0 96 ULTRA-LIGHT: 0 OPERATIONS 100 AIR CARRIER: 0 102 AIR TAXI: 508 103 G A LOCAL: 3,661 104 G A ITNRNT: 1,831 105 MILITARY: 100 TOTAL: 6,100 OPERATIONS FOR 12 MONTHS ENDING: 09/26/2023																																																																																																																																																							
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U. S. DOT CROSSING INVENTORY FORM

DEPARTMENT OF TRANSPORTATION

FEDERAL RAILROAD ADMINISTRATION

OMB No. 2130-0017

Instructions for the initial reporting of the following types of new or previously unreported crossings: For public highway-rail grade crossings, complete the entire inventory Form. For private highway-rail grade crossings, complete the Header, Parts I and II, and the Submission Information section. For public pathway grade crossings (including pedestrian station grade crossings), complete the Header, Parts I and II, and the Submission Information section. For Private pathway grade crossings, complete the Header, Parts I and II, and the Submission Information section. For grade-separated highway-rail or pathway crossings (including pedestrian station crossings), complete the Header, Part I, and the Submission Information section. For changes to existing data, complete the Header, Part I Items 1-3, and the Submission Information section, in addition to the updated data fields. Note: For private crossings only, Part I Item 20 and Part III Item 2.K. are required unless otherwise noted. An asterisk * denotes an optional field.

A. Revision Date (MM/DD/YYYY) 02 / 20 / 2024	B. Reporting Agency <input checked="" type="checkbox"/> Railroad <input type="checkbox"/> Transit <input type="checkbox"/> State <input type="checkbox"/> Other	C. Reason for Update (Select only one) <input checked="" type="checkbox"/> Change in Data <input type="checkbox"/> New Crossing <input type="checkbox"/> Closed <input type="checkbox"/> Re-Open <input type="checkbox"/> Date Change Only <input type="checkbox"/> No Train Traffic <input type="checkbox"/> Quiet Zone Update <input type="checkbox"/> Admin. Correction <input type="checkbox"/> Change in Primary Operating RR	D. DOT Crossing Inventory Number 632863L
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Part I: Location and Classification Information

1. Primary Operating Railroad SOUTH CAROLINA CENTRAL RAILROAD COMPANY, IN		2. State SOUTH CAROLINA		3. County DARLINGTON	
4. City / Municipality <input checked="" type="checkbox"/> In <input type="checkbox"/> Near HARTSVILLE		5. Street/Road Name & Block Number SOUTH 4TH STREET (Street/Road Name) * (Block Number)		6. Highway Type & No. SC 151	
7. Do Other Railroads Operate a Separate Track at Crossing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Specify RR			8. Do Other Railroads Operate Over Your Track at Crossing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Specify RR		
9. Railroad Division or Region <input type="checkbox"/> None american region		10. Railroad Subdivision or District <input type="checkbox"/> None HARTSVILLE		11. Branch or Line Name <input type="checkbox"/> None SJA	
12. RR Milepost 0317.82 (prefix) (nnnn.nnn) (suffix)					
13. Line Segment *		14. Nearest RR Timetable Station * HARTSVILLE		15. Parent RR (if applicable) <input checked="" type="checkbox"/> N/A	
16. Crossing Owner (if applicable) <input type="checkbox"/> N/A SCRF					
17. Crossing Type <input checked="" type="checkbox"/> Public <input type="checkbox"/> Private	18. Crossing Purpose <input checked="" type="checkbox"/> Highway <input type="checkbox"/> Pathway, Ped. <input type="checkbox"/> Station, Ped.	19. Crossing Position <input checked="" type="checkbox"/> At Grade <input type="checkbox"/> RR Under <input type="checkbox"/> RR Over	20. Public Access (if Private Crossing) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Type of Train <input checked="" type="checkbox"/> Freight <input type="checkbox"/> Intercity Passenger <input type="checkbox"/> Commuter <input type="checkbox"/> Transit <input type="checkbox"/> Shared Use Transit <input type="checkbox"/> Tourist/Other	22. Average Passenger Train Count Per Day <input type="checkbox"/> Less Than One Per Day <input type="checkbox"/> Number Per Day 0
23. Type of Land Use <input type="checkbox"/> Open Space <input type="checkbox"/> Farm <input type="checkbox"/> Residential <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Institutional <input type="checkbox"/> Recreational <input type="checkbox"/> RR Yard					
24. Is there an Adjacent Crossing with a Separate Number? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Provide Crossing Number			25. Quiet Zone (FRA provided) <input checked="" type="checkbox"/> No <input type="checkbox"/> 24 Hr <input type="checkbox"/> Partial <input type="checkbox"/> Chicago Excused Date Established		
26. HSR Corridor ID <input checked="" type="checkbox"/> N/A	27. Latitude in decimal degrees (WGS84 std: nn.nnnnnnn) 34.366278		28. Longitude in decimal degrees (WGS84 std: -nnn.nnnnnnn) -80.065881		29. Lat/Long Source <input checked="" type="checkbox"/> Actual <input type="checkbox"/> Estimated
30.A. Railroad Use * Reviewed & Updated by Richard Owens 8/24/2020			31.A. State Use *		
30.B. Railroad Use * updated by chance mckenzie 02/20/2024			31.B. State Use *		
30.C. Railroad Use *			31.C. State Use *		
30.D. Railroad Use *			31.D. State Use *		
32.A. Narrative (Railroad Use) *			32.B. Narrative (State Use) *		
33. Emergency Notification Telephone No. (posted) 800-800-3490		34. Railroad Contact (Telephone No.) 800-800-3490		35. State Contact (Telephone No.) 803-737-1624	

Part II: Railroad Information

1. Estimated Number of Daily Train Movements				
1.A. Total Day Thru Trains (6 AM to 6 PM) 2	1.B. Total Night Thru Trains (6 PM to 6 AM) 2	1.C. Total Switching Trains 0	1.D. Total Transit Trains 0	1.E. Check if Less Than One Movement Per Day <input type="checkbox"/> How many trains per week? _____
2. Year of Train Count Data (YYYY) 2018		3. Speed of Train at Crossing 3.A. Maximum Timetable Speed (mph) 10 3.B. Typical Speed Range Over Crossing (mph) From 1 to 10		
4. Type and Count of Tracks Main 1 Siding 0 Yard 0 Transit 0 Industry 0				
5. Train Detection (Main Track only) <input checked="" type="checkbox"/> Constant Warning Time <input type="checkbox"/> Motion Detection <input type="checkbox"/> AFO <input type="checkbox"/> PTC <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> None				
6. Is Track Signaled? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		7.A. Event Recorder <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		7.B. Remote Health Monitoring <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

U. S. DOT CROSSING INVENTORY FORM

A. Revision Date (MM/DD/YYYY) 02/20/2024		PAGE 2		D. Crossing Inventory Number (7 char.) 632863L	
Part III: Highway or Pathway Traffic Control Device Information					
1. Are there Signs or Signals? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		2. Types of Passive Traffic Control Devices associated with the Crossing			
2.A. Crossbuck Assemblies (count) 0		2.B. STOP Signs (R1-1) (count) 0	2.C. YIELD Signs (R1-2) (count)	2.D. Advance Warning Signs (Check all that apply; include count) <input checked="" type="checkbox"/> None <input type="checkbox"/> W10-1 <input type="checkbox"/> W10-3 <input type="checkbox"/> W10-11 <input type="checkbox"/> W10-2 <input type="checkbox"/> W10-4 <input type="checkbox"/> W10-12	
2.E. Low Ground Clearance Sign (W10-5) <input checked="" type="checkbox"/> Yes (count _____) <input type="checkbox"/> No		2.F. Pavement Markings <input checked="" type="checkbox"/> Stop Lines <input type="checkbox"/> Dynamic Envelope <input checked="" type="checkbox"/> RR Xing Symbols <input type="checkbox"/> None		2.G. Channelization Devices/Medians <input type="checkbox"/> All Approaches <input type="checkbox"/> Median <input type="checkbox"/> One Approach <input type="checkbox"/> None	
2.H. EXEMPT Sign (R15-3) <input type="checkbox"/> Yes <input type="checkbox"/> No		2.I. ENS Sign (I-13) Displayed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
2.J. Other MUTCD Signs Specify Type _____ Count _____ Specify Type _____ Count _____ Specify Type _____ Count _____		2.K. Private Crossing Signs (if private) <input type="checkbox"/> Yes <input type="checkbox"/> No		2.L. LED Enhanced Signs (List types)	
3. Types of Train Activated Warning Devices at the Grade Crossing (specify count of each device for all that apply)					
3.A. Gate Arms (count) Roadway <u>2</u> Pedestrian _____		3.B. Gate Configuration <input type="checkbox"/> 2 Quad <input type="checkbox"/> Full (Barrier) Resistance <input type="checkbox"/> 3 Quad <input type="checkbox"/> Median Gates <input type="checkbox"/> 4 Quad		3.C. Cantilevered (or Bridged) Flashing Light Structures (count) Over Traffic Lane <u>0</u> <input type="checkbox"/> Incandescent Not Over Traffic Lane <u>0</u> <input type="checkbox"/> LED	
3.D. Mast Mounted Flashing Lights (count of masts) <u>2</u> <input type="checkbox"/> Incandescent <input checked="" type="checkbox"/> LED <input checked="" type="checkbox"/> Back Lights Included <input type="checkbox"/> Side Lights Included		3.E. Total Count of Flashing Light Pairs <u>4</u>			
3.F. Installation Date of Current Active Warning Devices: (MM/YYYY) _____/_____/_____ <input checked="" type="checkbox"/> Not Required		3.G. Wayside Horn <input type="checkbox"/> Yes Installed on (MM/YYYY) ____/____/_____ <input checked="" type="checkbox"/> No		3.H. Highway Traffic Signals Controlling Crossing <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3.I. Bells (count) <u>2</u>					
3.J. Non-Train Active Warning <input type="checkbox"/> Flagging/Flagman <input type="checkbox"/> Manually Operated Signals <input type="checkbox"/> Watchman <input type="checkbox"/> Floodlighting <input type="checkbox"/> None				3.K. Other Flashing Lights or Warning Devices Count <u>0</u> Specify type _____	
4.A. Does nearby Hwy Intersection have Traffic Signals? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		4.B. Hwy Traffic Signal Interconnection <input checked="" type="checkbox"/> Not Interconnected <input type="checkbox"/> For Traffic Signals <input type="checkbox"/> For Warning Signs		4.C. Hwy Traffic Signal Preemption <input type="checkbox"/> Simultaneous <input type="checkbox"/> Advance	
5. Highway Traffic Pre-Signals <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Storage Distance * _____ Stop Line Distance * _____		6. Highway Monitoring Devices (Check all that apply) <input type="checkbox"/> Yes - Photo/Video Recording <input type="checkbox"/> Yes - Vehicle Presence Detection <input checked="" type="checkbox"/> None			
Part IV: Physical Characteristics					
1. Traffic Lanes Crossing Railroad Number of Lanes <u>2</u>		2. Is Roadway/Pathway Paved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		3. Does Track Run Down a Street? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Is Crossing Illuminated? (Street lights within approx. 50 feet from nearest rail) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
5. Crossing Surface (on Main Track, multiple types allowed) Installation Date * (MM/YYYY) ____/____/_____ <input type="checkbox"/> 1 Timber <input type="checkbox"/> 2 Asphalt <input type="checkbox"/> 3 Asphalt and Timber <input checked="" type="checkbox"/> 4 Concrete <input type="checkbox"/> 5 Concrete and Rubber <input type="checkbox"/> 6 Rubber <input type="checkbox"/> 7 Metal <input type="checkbox"/> 8 Unconsolidated <input type="checkbox"/> 9 Composite <input type="checkbox"/> 10 Other (specify) _____					
6. Intersecting Roadway within 500 feet? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Approximate Distance (feet) <u>75</u>		7. Smallest Crossing Angle <input type="checkbox"/> 0° - 29° <input type="checkbox"/> 30° - 59° <input checked="" type="checkbox"/> 60° - 90°		8. Is Commercial Power Available? * <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Part V: Public Highway Information					
1. Highway System <input type="checkbox"/> (01) Interstate Highway System <input type="checkbox"/> (02) Other Nat Hwy System (NHS) <input type="checkbox"/> (03) Federal AID, Not NHS <input checked="" type="checkbox"/> (08) Non-Federal Aid		2. Functional Classification of Road at Crossing <input type="checkbox"/> (0) Rural <input checked="" type="checkbox"/> (1) Urban <input type="checkbox"/> (1) Interstate <input type="checkbox"/> (5) Major Collector <input type="checkbox"/> (2) Other Freeways and Expressways <input type="checkbox"/> (3) Other Principal Arterial <input type="checkbox"/> (6) Minor Collector <input checked="" type="checkbox"/> (4) Minor Arterial <input type="checkbox"/> (7) Local		3. Is Crossing on State Highway System? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
4. Highway Speed Limit <u>35</u> MPH <input checked="" type="checkbox"/> Posted <input type="checkbox"/> Statutory		5. Linear Referencing System (LRS Route ID) *			
6. LRS Milepost *					
7. Annual Average Daily Traffic (AADT) Year <u>2013</u> AADT <u>015154</u>		8. Estimated Percent Trucks <u>10</u> %		9. Regularly Used by School Buses? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Average Number per Day <u>9</u>	
10. Emergency Services Route <input type="checkbox"/> Yes <input type="checkbox"/> No					
Submission Information - This information is used for administrative purposes and is not available on the public website.					
Submitted by _____ Organization _____ Phone _____ Date _____					
Public reporting burden for this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. According to the Paperwork Reduction Act of 1995, a federal agency may not conduct or sponsor, and a person is not required to, nor shall a person be subject to a penalty for failure to comply with, a collection of information unless it displays a currently valid OMB control number. The valid OMB control number for information collection is 2130-0017. Send comments regarding this burden estimate or any other aspect of this collection, including for reducing this burden to: Information Collection Officer, Federal Railroad Administration, 1200 New Jersey Ave. SE, MS-25 Washington, DC 20590.					

Noise Study Report

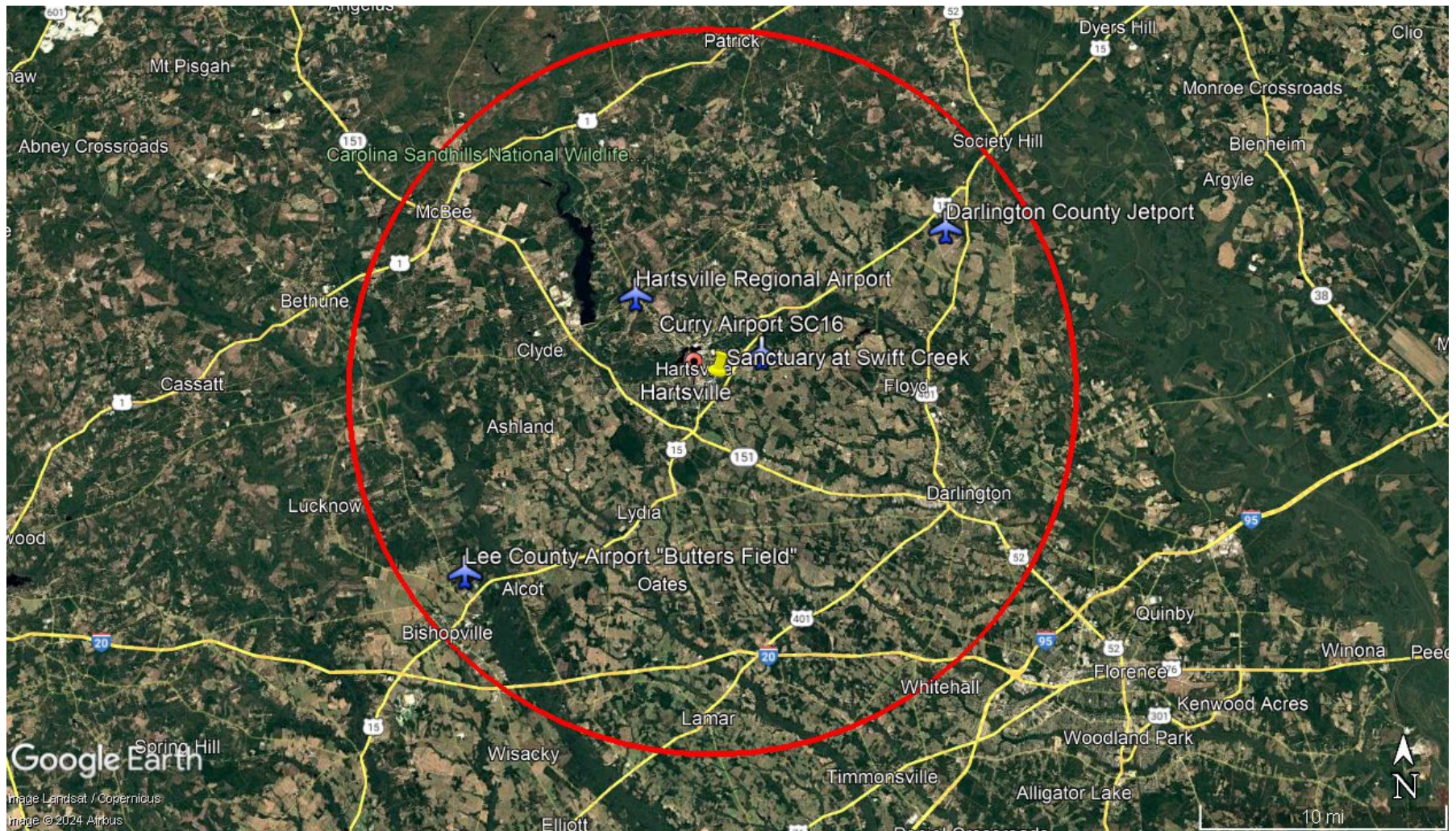
Camelia Ridge | Hartsville, SC

October 22, 2024 | Insight Group No. 09-240220



EXHIBIT C

Distances to Noise Sources



Legend



3359 Meeting St. N. Charleston, SC 29405

Phone: (843) 779 9824 InsightGrp.com

Project Name: Camelia Ridge

Project Number: 09-240220

Date: 10/21/2024

Distances to Noise Sources – Airports within 15mi

Camelia Ridge
Noise Study

Hartsville

South Carolina

Exhibit

C.1



Legend



3359 Meeting St. N. Charleston, SC 29405
 Phone: (843) 779 9824 InsightGrp.com

Project Name: Camelia Ridge

Project Number: 09-240220

Date: 10/21/2024

Distances to Noise Sources—Railroad within 3,000ft

Camelia Ridge
 Noise Study

Hartsville

South Carolina

Exhibit

C.2



Legend



3359 Meeting St. N. Charleston, SC 29405
Phone: (843) 779 9824 InsightGrp.com

Project Name: Camelia Ridge

Project Number: 09-240220

Date: 10/21/2024

Distances to Noise Sources – Roadways

Camelia Ridge
Noise Study

Hartsville

South Carolina

Exhibit

C.3