PLANNED DEVELOPMENT REQUEST

ZREZ-03-21-00125

- Case history
- Presentation
- Application
- Public Input

Post & Courier

CHARLESTON COUNTY COUNCIL PUBLIC HEARING Tuesday, June 8, 2021 at 6:30 PM

Charleston County Council will hold a public hearing on the matters listed below beginning at 6:30 p.m., Tuesday, June 8, 2021, in Council Chambers (second floor of the Lonnie Hamilton, III, Public Services Building, located at: 4045 Bridge View Drive. North Charleston. SC 29405). Packet information can be found online at: https://www.charlestoncounty.org/departments/zoning-planning/. The meeting will be livestreamed https://www.charlestoncounty.org/departments/county-council/cctv.php. Public comments may be made in person, or written public comments may be emailed to CCPC@charlestoncounty.org or mailed to the address listed above by noon on Tuesday, June 8, 2021. Contact the Zoning and Planning Department at (843)202-7200 or CCPC@charlestoncounty.org for additional information.

- a. <u>ZREZ-03-21-00123</u>: Request to rezone TMS 286-00-00-601, 1491 Bees Ferry Road, from the Industrial (I) Zoning District to the Mixed-Style Residential (M-12) Zoning District.
- b. <u>ZREZ-03-21-00125</u>: Request to rezone TMS 711-00-00-052, 7820 N Highway 17, from the Agricultural Preservation 10 (AG-10) Zoning District to Planned Development 181 (PD-181) Zoning District, High School/Middle School in Awendaw.

This Public Notice is in accordance with Section 6-29-760 of the Code of Laws of South Carolina.

Kristen L. Salisbury Clerk of Council

High School/ Middle School in Awendaw PD-181: ZREZ-03-21-00125 Case History

Planning Commission: May 10, 2021
Public Hearing: June 8, 2021
Planning and Public Works Committee: June 17, 2021
First Reading: June 22, 2021
Second Reading: July 27, 2021
Third Reading: August 31, 2021

CASE INFORMATION

Applicant: Mary Martinich, Seamon Whiteside

Owner: Quarry Lake Plantation LLC

Location: 7820 N Highway 17

Parcel Identification: 711-00-00-052

<u>Application:</u> Request to rezone TMS 711-00-00-052, located at 7820 N. Highway 17 (East County area), from the Agricultural Preservation 10 (AG-10) Zoning District to the Planned Development, PD-181, *High School/Middle School in Awendaw*, Zoning District.

Council District: 2 (Schweers)

Property Size: 107.2 acres

Zoning History: The subject property was zoned Agricultural General prior to the adoption of the Zoning and Land Development Regulations Ordinance in 2001, which changed the zoning to the Agricultural Preservation District (AG-10). In 2020, an application submitted to rezone this property from AG-10 to PD-176, "High School/Middle School in Awendaw" was submitted. On June 22, 2020, Planning Commission recommended approval (vote: 8-0) of the request with one condition: during Site Plan Review, the applicant and staff shall work to maximize the size of the buffer beyond 25 feet at James Turner and Jenkins Hill Roads. County Council held the public hearing for this request on July 14, 2020. At the August 6, 2020 County Council Planning/Public Works Committee Meeting, a motion to disapprove the application failed (4-4), and as a result, the application was considered denied and did not move forward.

A request from the applicant for a waiver from the one-year waiting period to reapply for the rezoning was recommended for approval by the County Council Planning/Public Works Committee on March 23, 2021 (vote: 8-0-1). On March 25, 2021, County Council approved the waiver request (vote: 9-0) and applicant submitted this new rezoning application.

Adjacent Zoning: The subject property is currently used as a farm. The properties to the North and East are zoned Resource Management (RM) and are part of the Francis Marion National Forest. Other properties to the East are Agricultural Residential (AGR) and contain mobile homes and single-family dwellings. Properties within the County to the West are zoned Agricultural Preservation (AG-10) and those within the Town of Awendaw are zoned Agricultural General (AG), and contain either single-family dwellings or mobile homes. The property to the South, across N Highway 17, is zoned Resource Management (RM) and is undeveloped.

Overview of Requested PD Guidelines:

The applicant is requesting to rezone from Agricultural Preservation District (AG-10) to PD-181, High School/Middle School in Awendaw. The requested guidelines for PD-181 are identical to those recommended for approval with conditions by Planning Commission in June of 2020, with the exception of

two changes: increasing the vegetated buffer along Jenkins Hill Rd from 25 to 35 feet and adding two understory trees and 10 shrubs per 100 linear feet; and adding language concerning maintenance of the property. Once under CCSD ownership, the property will be leased back to Quarry Lake LLC for continued use as a hay field, and two dilapidated structures will be demolished within six months of closing on the property. The following proposed guidelines are identical to those included in the previous rezoning application:

- One academic building, maximum of 255,000 square feet;
- Accessory buildings:
 - Fieldhouse, maximum of 10,000 square feet;
 - o Press box for concessions, maximum of 5,000 square feet;
 - o Well house, maximum of 500 square feet:
 - o Three storage buildings, combined maximum of 9,000 square feet;
- Total lot coverage of 5.9% and total building area maximum 279,500 square feet;
- Athletic fields and areas: One football field, one practice field, middle school multi-use field, one baseball field, one softball field, bleachers, one paved track, and six tennis courts;
- Resource extraction of timber and soil during the construction of the school building, facilities and stormwater detention pond;
- All utilities to serve the listed facilities, including water well/service, septic service (including waste treatment drip field), electrical service, stormwater detention pond, and a well house will be included for water;
- Paved parking will be provided per Art. 9.3, *Off-Street Parking and Loading*, of the ZLDR in effect at the time of approval;
- All signs shall comply with Art. 9.11, Signs, and Art. 9.6.4.C, Site Lighting:
 - o One monument style, externally lit, freestanding sign to address Highway 17
 - o Secondary signage addressing the entrance along Jenkins Hill Road
 - o Internal directional signage
 - Light Emitting Diode (LED) Message Boards
- Lighting for the sports and recreation areas shall follow the IES guidelines for Sports and Recreational Area Lighting:
 - o Illumination levels for field sports shall not exceed 50 foot-candles;
 - Light poles shall not exceed 80 feet in height;
- Tree protection, preservation, and replacement shall meet or exceed regulations outlined in Art. 9.4, *Tree Protection and Preservation*, of the ZLDR;
- Will follow AG-10 standards of the ZLDR in effect at the time of approval for anything not specified in the PD Guidelines, including if the property is not developed as a school;

<u>Municipalities Notified/Response</u>: The Town of Summerville, Town of Sullivan's Island, Town of Seabrook Island, Town of Ravenel, Town of Mt Pleasant, Town of Meggett, Town of McClellanville, Town of Lincolnville, Town of Kiawah Island, Town of James Island, Town of Hollywood, Town of Awendaw, City of North Charleston, City of Isle of Palms, City of Folly Beach, City of Charleston, and Colleton County were notified of the request and have not responded.

STAFF RECOMMENDATION

According to Section §4.23.9 E (9) of the *Zoning and Land Development Regulations Ordinance (ZLDR)*, applications for PD Development Plans may be approved only if County Council determines that the following criteria are met:

A. The PD Development Plan complies with the standards contained in this Article;

Staff Response: The PD complies with the standards contained in this Article.

B. The development is consistent with the intent of the *Comprehensive Plan* and other adopted policy documents;

<u>Staff Response:</u> The PD is consistent with the intent of the Comprehensive Plan and other adopted policy documents, as CCSD seeks to provide community facilities for a currently underserved area

of Charleston County, while maintaining the rural character of the community. Additionally, a school is allowed on the subject parcel under the current AG-10 zoning, contingent upon BZA's approval of a Special Exception. The applicant has chosen to pursue a PD due to the lapse of approval that BZA imposes (12 months plus an option for a 12-month extension, if eligible).

C. The County and other agencies will be able to provide necessary public services, facilities, and programs to serve the development proposed, at the time the property is developed.

<u>Staff Response</u>: The County and other agencies will be able to provide services to the proposed development pursuant to the letters of coordination submitted by the applicant.

Because the Planned Development application meets all of the approval criteria, staff recommends approval.

PLANNING COMMISSION MEETING: May 10, 2021

Recommendation: Approval (8-0), with Commissioner Miller absent.

<u>Speakers</u>: Lee Gastley of Seamon + Whiteside spoke in support of the rezoning request and provided a brief summary of public outreach efforts by the applicant. Two individuals spoke in opposition: Miriam Green, Mayor of the Town of Awendaw and Thomas Colleton, CCSD District 1 Constituent Board Chair.

<u>Public Input</u>: One letter of opposition received from the Town of Awendaw suggested this development be moved to a different site located near the intersection of Seewee Road and N. Highway 17.

<u>Notifications:</u> 144 notification letters were sent to owners of property located within 300 feet of the boundaries of the subject parcel and individuals on the East Cooper Interested Parties List on April 23, 2021. Additionally, this request was noticed in the *Post & Courier* on April 23, 2021.

PUBLIC HEARING: June 8, 2021

<u>Speakers</u>: The Mayor of Awendaw spoke in opposition, two individuals spoke in support, and five individuals made general comments about the need for a school in this area. One person stated that the alternate site proposed by the Town of Awendaw is not for sale.

<u>Notifications</u>: 144 notification letters were sent to owners of property located within 300 feet of the boundaries of the subject parcel and individuals on the East Cooper Interested Parties List on May 21, 2021. Additionally, this request was noticed in the Post & Courier on May 21, 2021.

PLANNING & PUBLIC WORKS COMMITTEE: June 17, 2021

PLANNED DEVELOPMENT REQUEST

ZREZ-03-21-00125

- Case history
- Presentation
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- Public Input

Charleston County Planned Development Zoning Map Amendment Request

Planning and Public Works Committee: June 17, 2021

First Reading: June 22, 2021

Second Reading: July 27, 2021

Third Reading: August 31, 2021

PD-181 High School/Middle School in Awendaw

Request to rezone TMS 711-00-00-052, located at 7820 N. Highway 17 (East County area), from the Agricultural Preservation 10 (AG-10) Zoning District to the Planned Development, PD-181, *High School/Middle School in Awendaw*, Zoning District.

East Cooper Area: 7820 N Highway 17

• Parcel I.D.: 711-00-00-052

Owner: Quarry Lake Plantation LLC

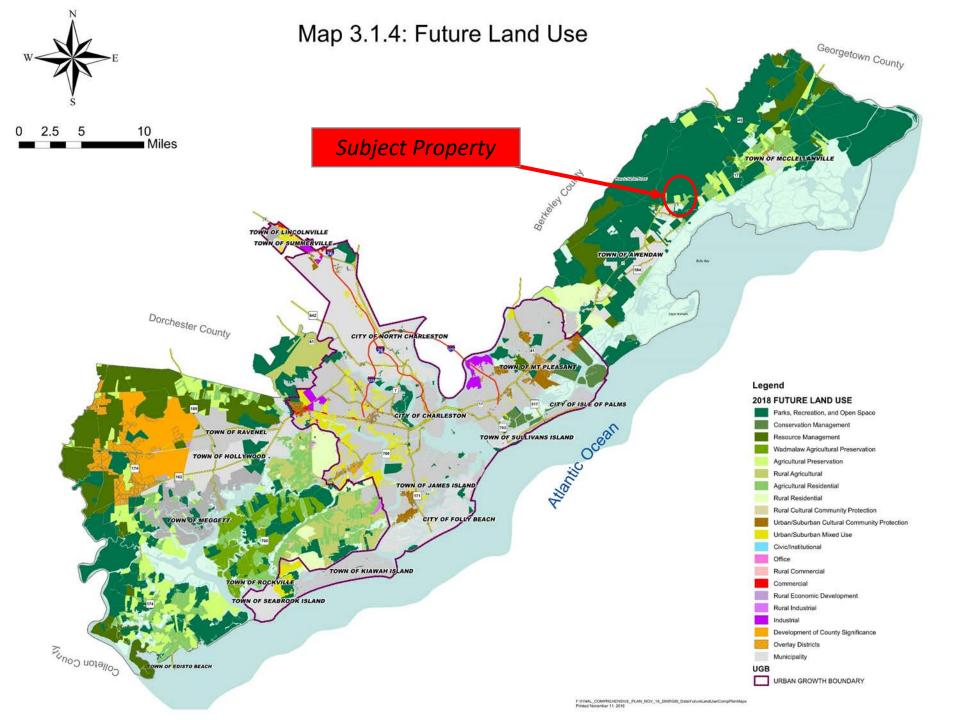
Applicant: Mary Martinich, Seamon Whiteside

Property Size: 107.2 acres

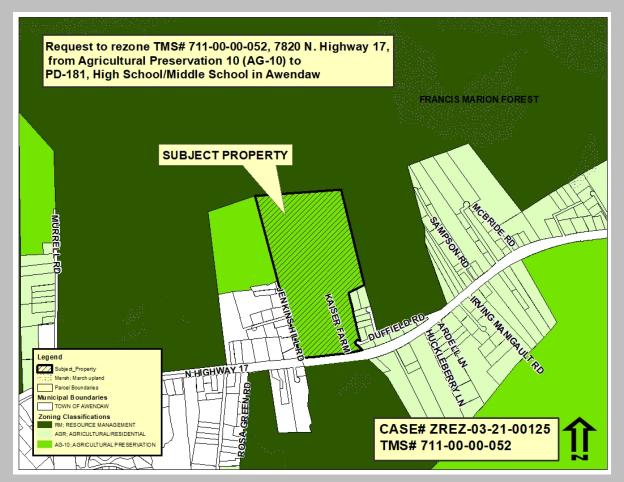
Council District: 2 - Schweers

Zoning History

- The subject property was zoned Agricultural General prior to the adoption of the Zoning and Land Development Regulations Ordinance in 2001, which changed the zoning to the Agricultural Preservation District (AG-10).
- In 2020, an application submitted to rezone this property from AG-10 to PD-176, "High School/Middle School in Awendaw" was submitted.
- On June 22, 2020, Planning Commission recommended approval (vote: 8-0) of the request with one condition: during Site Plan Review, the applicant and staff shall work to maximize the size of the buffer beyond 25 feet at James Turner and Jenkins Hill Roads.
- County Council held the public hearing for this request on July 14, 2020.
- At the August 6, 2020 County Council Planning/Public Works Committee Meeting, a motion to disapprove the application failed (4-4), and as a result, the application was considered denied and did not move forward.
- A request from the applicant for a waiver from the one-year waiting period to reapply for the rezoning was recommended for approval by the County Council Planning/Public Works Committee on March 23, 2021 (vote: 8-0-1).
- On March 25, 2021, County Council approved the waiver request (vote: 9-0) and applicant submitted this new rezoning application.



Current Zoning

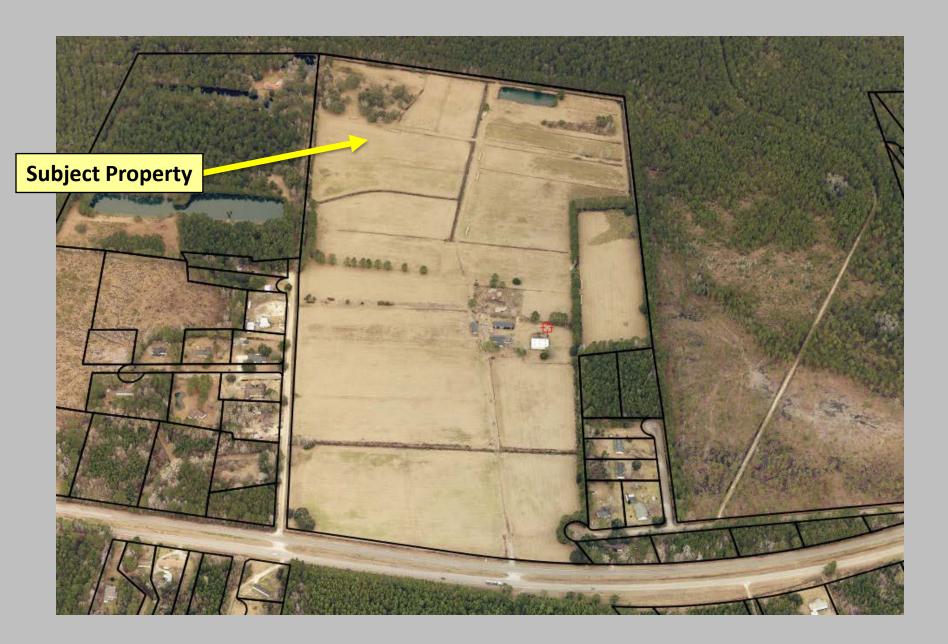


The subject property is currently used as a farm. The properties to the North and East are zoned Resource Management (RM) and are part of the Francis Marion National Forest. Other properties to the East are Agricultural Residential (AGR) and contain mobile homes and single-family dwellings. Properties within the County to the West are zoned Agricultural Preservation (AG-10) and those within the Town of Awendaw are zoned Agricultural General (AG), and contain either single-family dwellings or mobile homes. The property to the South, across N Highway 17, is zoned Resource Management (RM) and is undeveloped.

Aerial View to the West



Aerial View to the North



Site Photos



1 – Subject Property

2 – Subject Property



Site Photos



3 – Adjacent Property TMS 711-00-00-119

4 – Adjacent Property TMS 711-00-00-129



PD-181 Requested PD Guidelines

The applicant is requesting to rezone from Agricultural Preservation District (AG-10) to PD-181, High School/Middle School in Awendaw. The requested guidelines for PD-181 are identical to those recommended for approval with conditions by Planning Commission in June of 2020, with the exception of two changes: increasing the vegetated buffer along Jenkins Hill Rd from 25 to 35 feet and adding two understory trees and 10 shrubs per 100 linear feet; and adding language concerning maintenance of the property. Once under CCSD ownership, the property will be leased back to Quarry Lake LLC for continued use as a hay field, and two dilapidated structures will be demolished within six months of closing on the property. The following proposed guidelines are identical to those included in the previous rezoning application:

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- Accessory buildings: fieldhouse, maximum of 10,000 square feet, press box for concessions, maximum of 5,000 square feet, well house, maximum of 500 square feet, and three storage buildings, combined maximum of 9,000 square feet
- Athletic fields and areas: One football field, one practice field, middle school multi-use field, one baseball field, one softball field, bleachers, one paved track, and six tennis courts

Requested PD Guidelines Cont'd

- Resource extraction of timber and soil during the construction of the school building, facilities and stormwater detention pond
- All utilities to serve the listed facilities, including water well/service, septic service (including waste treatment drip field), electrical service, stormwater detention pond, and a well house will be included for water
- Total lot coverage of 5.9% and total building area maximum 279,500 square feet
- Paved parking will be provided per Art. 9.3, Off-Street Parking and Loading, of the ZLDR in effect at the time of approval
- All signs shall comply with Art. 9.11, Signs, and Art. 9.6.4.C, Site Lighting
 - One monument style, externally lit, freestanding sign to address Highway 17
 - Secondary signage addressing the entrance along Jenkins Hill Road
 - Internal directional signage
 - Light Emitting Diode (LED) Message Boards
- Lighting for the sports and recreation areas shall follow the IES guidelines for Sports and Recreational Area Lighting
 - Illumination levels for field sports shall not exceed 50 foot-candles
 - Light poles shall not exceed 80 feet in height
- Tree protection, preservation, and replacement shall meet or exceed regulations outlined in Art. 9.4, *Tree Protection and Preservation*, of the ZLDR
- Will follow AG-10 standards of the ZLDR in effect at the time of approval for anything not specified in the PD Guidelines, including if the property is not developed as a school

PD-181 Site Plan



General Notes:

Querry Late Plantation, LLC PO Box 973 Charleston, SC 29403

Developer: Charleston County School District 75 Calhoun Chadeston, SC 29401 Contact: Angels Bornette ensel: angels_barnetie@c Phone: (843) 937-8300

Engineers/Land Planners: Seamon Whiteside 501 Wando Park Bjed, Ste, 200 Mount Pleasant, 5C 29454 Contact Lee Gestley ernal: Igastley@nears Phone: 843/ 884-1887

Site Information

Property is located in Flood Zone X as scaled from FLR M Panel No. 45019C 0190J dated November 17,

NONJURISDICTIONAL WETLAND UPLAND TOTAL DEVELOPMENT:

OPEN SPACE
ATHATTO FELDO FOURTS A A 25
WASTE TRANSMENT DEP AREA A 25-00
WASTE TRANSMENT AREA BUFFER AS A
USE TRANSMENT AREA BUFFER AS A
BURGLAND DER ATT BANGEY AREA
TITTAL
TOTAL
TO

MAN RELIGIOUS (red expension)
FELD HOUSE
PARKING / WITH EULAR ACCESS
PORCE (NEW)
PORCE (SEEK)

Proposed Uses HIGH SCHOOL / MIDDLE SCHOOL (Incilities):

Unstructured open cases include, but an ord Institut in, configurations around that buildings includes an office areas according to provide and earlier to destructure and risks and obtained as the problem of the buildings of the problem of the pr

Sketch Plan Notes

- . This Sketch Plan is conceptual in nature and This Startin War is conceptual in return and finel possion of fleetures may be educated to all by the crisiste conditions. The final layest, however, will maintain the general intent shown on this plan. All areas elegipated for future expansion or not intracted for immediate improvement or development shall return in natural state until such time as development permits are approximated.
- Unto sections as agrowed, Assistment 45 building coverage. Mastiment height of structures shall be 35' measured from base flood ejection to the hallway port between the curve and the peak of the highest roof ejecnes.

Legend



existing grand free (24*+ dbh)



Site Location Map

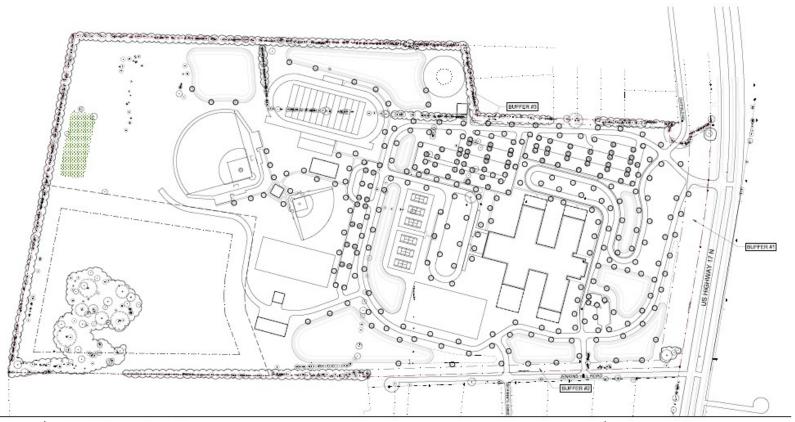


AERIAL CONCEPTUAL SKETCH PLAN

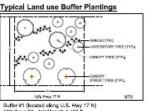
AWENDAW / MCCLELLANVILLE HIGH SCHOOL / MIDDLE SCHOOL CHARLESTON COUNTY SCHOOL DISTRICT CHARLESTON COUNTY, SOUTH CAROLINA

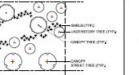


PD-181 Landscape Plan

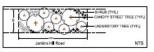


Legend

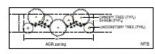




100 Type S3 • total length 1.193 I multiplier 11,93 11,93 11,93 canopylatest tree understory tree shrubs







Buffer #3 (located along west property line adj. to AGR zoning)

plant type	per 100'	multiplier	total	
canopylaheat tree	3	15,38	43*	_
understory tree	4	15.38	62	
shrubs	20	15,36	306	

Per Charleston County ZLDR, 2 street trees are required per 100 f in S3 buffers and may count toward the canopy tree requirement.

Existing tress may count toward cancey tree requirements.

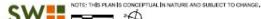
Typical fluifler Plantings shown are conceptual. Quantities will be met per requirements noted with finel planting locations to be determined and approved by Cheleston Quantity Haming 38th.



LANDSCAPING SKETCH PLAN

AWENDAW / MCCLELLANVILLE HIGH SCHOOL / MIDDLE SCHOOL CHARLESTON COUNTY SCHOOL DISTRICT





Approval Criteria—Section 4.23.9(E)(9)

According to Section §4.23.9 E (9) of the Zoning and Land Development Regulations Ordinance (ZLDR), applications for PD Development Plans may be approved only if County Council determines that the following criteria are met:

A. The PD Development Plan complies with the standards contained in this Article;

Staff Response: The PD complies with the standards contained in this Article.

B. The development is consistent with the intent of the Comprehensive Plan and other adopted policy documents;

Staff Response: The PD is consistent with the intent of the Comprehensive Plan and other adopted policy documents, as CCSD seeks to provide community facilities for a currently underserved area of Charleston County, while maintaining the rural character of the community. Additionally, a school is allowed on the subject parcel under the current AG-10 zoning, contingent upon BZA's approval of a Special Exception. The applicant has chosen to pursue a PD due to the lapse of approval that BZA imposes (12 months plus an option for a 12-month extension, if eligible).

C. The County and other agencies will be able to provide necessary public services, facilities, and programs to serve the development proposed, at the time the property is developed.

Staff Response: The County and other agencies will be able to provide services to the proposed development pursuant to the letters of coordination submitted by the applicant.

Recommendations

Both staff and Planning Commission recommend approval.

(Planning Commission vote: 8 to 0

Public Input

- Two letters of opposition were received,
 one from the Town of Awendaw and one
 from a concerned resident.
- One letter of support was received from the Town of McClellanville.

Notifications

April 23, 2021

- 144 notification letters were sent to owners of property located within 300 feet of the boundaries of the subject parcel and individuals on the East Cooper Interested Parties List
- Request was noticed in the Post & Courier

May 21, 2021

- 144 notification letters were sent to owners of property located within 300 feet of the boundaries of the subject parcel and individuals on the East Cooper Interested Parties List
- Request was noticed in the Post & Courier

Charleston County Planned Development Zoning Map Amendment Request

Planning and Public Works Committee: June 17, 2021

First Reading: June 22, 2021

Second Reading: July 27, 2021

Third Reading: August 31, 2021

ZONING CHANGE APPLICATION

CASE		PD 711-00	0-00-052			Zoning/Planning Department Lonnie Hamilton, III	
¥	PROPERTY INFO	RMATION				Public Services Building 4045 Bridge View Drive North Charleston, SC 29405	
CURRENT DISTRICT PARCEL ID(S) 711	AG-10 REQ	UESTED DISTR	ICT PD	CHARLI COU	NTY 🗐	(843) 202-7200 1-800-524-7832 Fax: (843) 202-7222	
CITY/AREA OF COUNT		SC 29458		SOUTH CA	KOLINA		
The state of the s	0 N. Highway					ACRES 107.2 ac.	
STREET ADDRESS		35264	24 54=	10/13/2015	1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ACKES 101.2 do.	
PLAT RECORDED:	воок <u>0510</u> воок NA	_PAGE <u>59</u> PAGE N	A DATE		ROVAL#		
PLAT RECORDED:							
	•			RESENTATIVE			
APPLICANT	Seamon Whites			HOME PHONE	F	_	
MAIL ADDRESS	501 Wando Parl		e 201	WORK PHONE	843-884	-1667	
CITY, STATE, ZIP	Mt. Pleasant, SC	29464		CELL PHONE			
				EMAIL	mmartin	ich@seamonwhiteside.c	om
OWNER (IF OTHER THAN APPLICANT)	Quarry Lake Pla	ntation LLC		HOME PHONE	,		
MAIL ADDRESS	PO Box 973			WORK PHONE			
CITY, STATE, ZIP	Charleston, SC 2	29403		CELL PHONE			
				EMAIL			
REPRESENTATIVE (IF OTHER THAN APPLICANT)	Angela Barnette	, CCSD	41.00 d	HOME PHONE	2		
MAIL ADDRESS	3999 Bridge View Drive		WORK PHONE	(843) 5	566-1995		
CITY, STATE, ZIP	North Charlestor	n SC 29405		CELL PHONE		· ·	
	<u></u>			email ang	e <u>la_barne</u>	ette@charleston.k12.sc.t	us
		<u>c</u>	CERTIFICATIO	<u>N</u>			
	*	✓ Copy of A	pproved and Records	d Plat showing prese	nt boundaries	of property	
This application will be applicant within fifteen	e returned to the n (15) business days if				ner's signature	e must match documentation.)	
these items are not su application or if any ar		_	igned Restricted Cov				
inaccurate:			gned Posted Notice / 00 plus \$10 00 per ar	<u>Affidavil</u> ore (Fees vary for Pla	nned Develon	ments)	
		<u> </u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	THIS BOYGIOP		
I (we) certify that accept the above requ provided and all inform		my zoning cha	The state of the s	F.M.255		oning change request, I also quired information has been	
		2/20/2024	,				
Signature of Owner(s)	\bigcirc	Date	Signature of App	licant/ Representati	ve (if other tha	n owner) Date	
Planner's Signature		Dale	Zoning Inspector	's Signature		Date	
		01	FFICE USE ON	LY			
Amount Received		Cash 7 []	Check2 □ #	ir	avoice Numb	pr	



Daniel C. Pennick, AICP Director 1.800.524.7832
Fax: 843.202.7222
Lonnie Hamilton, III
Public Services Building
4045 Bridge View Drive
North Charleston, SC 29405-7464

843,202,7200

PERMIT APPLICATION: RESTRICTIVE COVENANTS AFFIDAVIT

I, <u>Angela Barnette</u> , have reviewed the res	strictive
covenants applicable to Parcel Identification Number(s)	7110000052 ,
located at (address) 0 N. Highway 17	, and the
proposed permit application is not contrary to, does not co	onflict with, and is not
prohibited by any of the restrictive covenants, as specified	in South Carolina
Code of Laws, Section 6-29-1145.	T.
	2/20/2020
[Signature]	[Date]
Angelo Barnette	
[Print Name]	
Explanation: Effective July 1, 2007, South Carolina Code of Laws Section 6 governments to inquire in the permit application, or in written in applicant, if a tract or parcel of land is restricted by a recorded to, conflicts with or prohibits an activity for which a permit is be [Section 6-29-1145 is copied on the back of this page] For Staff Use Only:	nstructions provided to the covenant that is contrary
Received by Date Application Number	



Daniel C. Pennick, AICP Zoning/Planning Director 843.202.7200 1.800.524.7832 Fax: 843.202.7222 Lonnie Hamilton, III Public Services Building 4045 Bridge View Drive North Charleston, SC 29405-7464

POSTED NOTICE AFFIDAVIT

This Affidavit must be filled out and signed by all owner(s) of the subject parcel(s)				
I, Angle Bank, have reviewed §3.1.6(B)(2), Posted Notice on [Print Name(s)]				
the back of this affidavit and understand that a sign(s) will be posted on				
Parcel Identification Number(s)				
7110000052 , located at (address)				
0 N. Highway 17, at least 15 calendar days prior to the				
public hearing date for which my request is scheduled.				
I also understand that once the notice has been posted, the owner(s) of the subject property are responsible for notifying the Zoning/Planning Department in writing if the Posted Notice is removed or damaged prior to the public hearing, meeting or date of action that is the subject of the notice. Failure to notify the Zoning/Planning Department in writing of removed or damaged Posted Notice may result in rescheduling of the public hearing and a delay in decision from the decision-making body.				
2/20/20/20				
[Property Owner(s) Signature(s)] [Date]				
Angelo Barnette				
[Print Name(s)]				
For Staff Use Only:				
Received by Date Application Number				

High School / Middle School in Awendaw

Charleston County, South Carolina TMS711-00-00-052 4/23/2021



PD Prepared for:

Charleston County School District

Prepared By/Applicant:



501 Wando Park Blvd Suite 200 Mount Pleasant, SC | (843) 884-1667 | seamonwhiteside.com

Project # 8067

High School/Middle School in Awendaw PD

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High School/Middle School PD

27. Appendices

- A. Site Location Map & Current Aerial
- B. Tax Map, Existing Land Use Map
- C. As-built Survey/Tree Survey
- D. Aerial Conceptual Sketch Plan
- E. Wetland Letter Application & Receipt
- F. Architectural Site Plan
- G. Landscape Sketch Plan
- H. Utility Plans
- I. Circulation Plan
- J. Traffic Impact and Access Study
- K. Historical & Archaeological Survey
- L. Site Photography
- M. Letters of Coordination
- N. Existing Buildings

1. Statement of Objectives

The objective of the High School/Middle School in Awendaw PD (Planned Development) is to create flexibility within the existing AG-10 zoning to allow for a high school and middle school with associated facilities such as parking, football, track, baseball, softball and tennis.

A Conceptual Site Plan for the school and surrounding facilities is included in Appendix D of this report.

2. Intent and Results of Proposed PD

Intent and results of the proposed school use meets with the objectives of §4.23.4 of the ZLDR in the following ways:

- A. A maximum choice in the types of environment available to the public by allowing a development that would not be possible under the strict application of the standards of this Ordinance that were designated primarily for development on individual lots:
 - 1. Educational and recreational facilities are accessible to residents of the area and of Charleston County.
 - 2. A centrally located community 'hub' for the towns of McClellanville and Awendaw is provided.
- B. A greater freedom in selecting the means to provide access, light, open space and design amenities:
 - 1. Increased access to the site is available to residents through sport fields and facilities versus the current privately-owned agricultural use.
- C. Quality design and environmentally sensitive development by allowing development to take advantage of special site characteristics, locations and land use arrangements:
 - 1. Development of the school, including utilities will occur in areas already cleared of vegetation, minimizing the need for tree removal.
 - 2. Quality open spaces and sports/recreation fields are provided for the school and community.
 - 3. The conceptual site plan (see Appendix D) provides interconnected stormwater detention ponds, minimizing the need for below-ground drainage.

- D. A development pattern in harmony with the applicable goals and strategies of the Comprehensive Plan, the proposed school use meets the following:
 - 2.2.1 Land Use: Provides needed community facilities for an underserved area of the county, centrally situated and easily accessible by the adjacent highway. Additional buffer widths will be provided where the site is adjacent to private property, respecting the rights of the neighbors.
 - 2.2.2 Economic Development: Provides job opportunities for area residents, as well as needed services for healthy local governments.
 - 2.2.5 Population: Accommodates the socioeconomic diverse and growing population of Awendaw, McClellanville, and the surrounding area with needed educational facilities in an environmentally and fiscally sustainable manner.
 - 2.2.7 Transportation: Utilizes existing highway and local roadways to serve the proposed school, maintaining the existing community character.
 - 2.2.8 Community Facilities: Community facilities and services will be provided, coordinated with Charleston County, ensuring capacity for expected growth.
 - LU 1. The proposed school will not affect any critical line areas.
 - LU 2. A 100-foot buffer, planted to meet S-3 planting requirements, will be provided between Highway 17 and school structures.
 - LU 4. The school will be located along existing road systems that will accommodate the expected traffic.
 - LU 6. Utilizes the implementation tool of a Planned Development Zoning District as well as increases the level of service (LOS) of the CCSD by centrally locating the new school between the towns of Awendaw and McClellanville.
 - LU 16. This PD will follow the approval process for amending the BCDCOG 208 Water Quality Management Plan, if applicable.
- E. The permanent preservation of common open space, recreation areas and facilities:
 - 1. Recreation areas and facilities provided on the site will be available for use by the school and students as well as residents.

- F. An efficient use of the land resulting in more economical networks of utilities, streets, schools, public grounds and buildings, and other facilities:
 - The conceptual plan (See Appendix D) provides all elements (buildings, parking, sports fields, etc.) carefully arranged to best utilize the site while providing accessibility to all areas from the centrally located school structure.
 - Well water will be utilized to provide potable water for the site, and a new septic system will be created to serve the school, with the drip area located in an existing field with a minimum of 100 feet of buffer on all sides per SCDHEC requirements.
- G. A creative approach to the use of land and related physical facilities that results in better development and design and the construction of amenities:
 - Given the underserved community, the location of a new middle/high school at this site will allow for the provision of needed recreational and athletic amenities that will serve both students and the community.

3. Site Information

The property is a 107.2-acre tract of land composed of 106.4 acres upland, 0.8 ac non-jurisdictional pond and is located along the north side of Highway 17 in Charleston County near Awendaw, South Carolina. Access to the property is provided by U.S. Highway 17 and three roads. Unimproved private Kaiser Farm Road connects internal to the property; Jenkins Hill Road is a public road and is adjacent to the site along the west side; and Duffield Road is a public road that connects to the property at the southeast corner. Along Highway 17, there are residential properties on both sides of the property and the Francis Marion National Forest is located to the north and east of the property.

The site is a currently used as a farm and is made up of farmland and agricultural uses. A large portion of the site is open, with relatively few trees. There are several grand trees including live oaks, water oaks, and black gums. There is a notable cluster of live oaks in the northwest corner of the property. Historic use of the property consists of rural residential, farmland and open pasture.

4. Allowed Land Uses

Middle and high school facilities are planned for the entirety of the site. All facilities are available to the public for use and may or may not require application to the CCSD to do so. Facilities included as part of this PD are as follows:

- A. School Buildings (all areas are listed as maximum square feet):
 - 1. One main academic building (260,000 sf).
 - 2. Anticipated ancillary buildings including but not limited to a fieldhouse (10,000 sf), press box for concessions (5,000 sf), well house (500sf), and three storage buildings (10,000 sf).

- 3. The exact number of buildings will be determined during programming and the design phase of the project.
- B. The maximum building lot coverage percentage is 30-percent.
- C. Utilities: All utilities to serve the listed facilities, including water well/service, septic service (including waste treatment drip field), electrical service, and stormwater detention pond. A well house will be included for water.
- D. Parking: Paved parking will be provided for allowed facilities based on ZLDR requirements.
- E. Athletic Fields: One football field, one practice field, middle school multi-use field, one baseball field, one softball field and bleachers are anticipated.
- F. Paved Track
- G. Tennis Courts (6)
- H. Resource Extraction: Due to construction of the school and school related facilities, site activities, including the digging of stormwater detention ponds and tree removal, may result in the extraction of soil or lumber from the site.

5. Maximum Density

No residential uses are proposed for this Planned Development.

6. Impact Assessment/Analysis

A. Utilities

- 1. Water: A well to be dug onsite will provide potable water for the schools and associated recreational facilities on the site.
- 2. Wastewater: A septic system will be utilized to service the schools and associated athletic facilities. Wastewater disposal shall be coordinated with South Carolina Department of Health and Environmental Control (SCDHEC) and serviced through septic services approved by SCDHEC. Prior to applying for Site Plan Review, the applicant shall submit a letter to the Zoning and Planning Department requesting a determination by the County regarding whether an amendment to the 208 Water Quality Management Plan is required for the septic system. If the County determines an amendment to the BCDCOG 208 Water Quality Management Plan is required, the amendment must be approved by the BCDCOG prior to submittal of any zoning permit applications for land disturbance activities/development or any Site Plan Review applications.
- 3. Electrical: Power will be provided to the site from existing overhead electric lines located along the north side of Highway 17.

B. Traffic/Roads

 A Traffic and Access Impact Study has been performed by Ridgeway Traffic Consulting, LLC and is provided in its entirety in Appendix I. Conclusions of this study state, in part:

"Turn lane improvements have been recommended for the main intersection to US 17 and the intersection of US 17 at Jenkins Hill Road that will minimize impacts on US 17 through volumes and provide for good traffic operations. Conflicting traffic volumes along Jenkins Hill Road are expected to be minimal although a right-turn lane is recommended at the southern access to separate passenger vehicles and buses that will continue north."

2. Roadway improvements to both Highway 17 and Jenkins Hill Road are anticipated as part of the school project. Along with recommended turn lanes provided by Ridgeway Traffic, pavement upgrades to Highway 17 may be warranted with utility and drainage relocations. Portions of Jenkins Hill Roads may require upgrades that include pavement, realignment, signage striping, and utility relocation.

C. Emergency Services

- 1. This site is currently under the jurisdiction of Charleston County Sherriff's Office and the Charleston County Emergency Services.
- 2. Refer to Appendix M, Letters of Coordination, regarding all necessary utility and infrastructure connection coordination and additional services needed for this parcel.

D. Drainage

- 1. The planned development shall comply with all Charleston County Stormwater Ordinances and South Carolina Department of Health and Environmental Control (SCDHEC) Regulatory requirements. For site locations within sensitive drainage basins, additional stormwater design and construction requirements may be required by the Director of Public Works prior to Stormwater permit approval and issuance. Sensitive drainage basins may include but are not limited to areas which incur flooding conditions, are designated as Special Protection Areas, discharge to water bodies with restrictive Water Quality conditions, and/or are governed by other restrictive Water Quality and Water Quality conditions. Where possible and allowed by permit, the proposed site may connect its stormwater system with existing conveyances. Best Management Practices (BMP's) shall be utilized, installed, and maintained in compliance with applicable approved permits throughout all phases including, but not limited to, site development, construction, and post construction.
- 2. Applicant shall comply with Charleston County Stormwater Ordinances and SCDHEC Regulatory requirements for pre and post construction water quality and quantity. Stormwater design, construction, and maintenance

shall be in compliance with applicable approved Charleston County Stormwater Permits. Comprehensive Master Drainage Plan must be provided for proposed site and incorporate all development phasing, future development, existing drainage systems and conveyances, and proposed drainage systems and conveyances. The Comprehensive Stormwater Master Plan shall also include discharge management plans for specialized activities within the development. Utilization of approved and permitted Low Impact Design elements is encouraged within a comprehensive site Master Drainage Plan.

3. The maintenance of all stormwater devices, structures, and facilities will be the responsibility of the Developer and/or Charleston County School District. A Covenants For Permanent Maintenance of Stormwater Facilities shall be established by responsible party and recorded at the Registrar of Deeds office.

E. Garbage Disposal

1. No public garbage collection is currently available. The property will utilize private contract waste disposal.

7. Development Schedule

- A. The exact year for school construction is unknown at this time and will depend on enrollment growth or the attendance zone reaching the 500 minimum student population threshold per school. The District does not typically approve funds for new school construction for a student population that is less than 500.
- B. The site will remain in its natural state until it is developed.
- C. If phasing is to occur, it will be determined during the design phase.

8. Open Space

- A. Open space will be owned and maintained by the school.
- B. See Common Open Space for more information.

9. Streets

No public rights of way are planned for this development. All internal drives will be owned and maintained by the CCSD.

10. Compliance with ZLDR

- A. Items not specifically addressed within this Planned Development Guidelines shall comply with and reference the Charleston County Zoning and Land Development Regulations (ZLDR) for the AG-10 Zoning District in effect at the time of the subsequent application submittal.
- B. The PD agrees to proceed with proposed development in accordance with the provisions of these zoning regulations, applicable provisions of the Charleston County Comprehensive Plan, and with such conditions as may be attached to any rezoning to the applicable PD district.
- C. The provisions of Article 3.10, Variances, of this Ordinance shall not apply to the planned development and all major changes to the planned development

- must be approved by County Council. Tree variances may be granted in accordance with this Article and all other sections of this Ordinance.
- D. This Planned Development intends to meet the application riteria listed in Chapter 4, Article, 4.23 of the Charleston County Zoning and Land Development Regulations Ordinance (ZLDR).
- E. No person shall erect or alter any building, structure, or sign on any tract of land or use any tract of land within the PD except in conformance with these guidelines and regulations. Unless modified herein, definitions of terms used in the Planned Development Guidelines shall follow definitions listed in the Charleston County Zoning and Land Development Regulations Ordinance (ZLDR) for the AG-10 Zoning District, as amended from time to time.
- F. Administration and enforcement of the Planned Development Guidelines shall follow the Charleston County Zoning and Land Development Regulations Ordinance (ZLDR).
- G. Approval Criteria

The PD complies with the standards contained in Article 4.23.9(E)(9) per the ZLDR as outlined below.

Applications for PD Development Plan approval may be approved only if the County Council determines that the following criteria are met:

- 1. The PD Development Plan complies with the standards contained in this Article;
 - i. The PD Development plan complies with the standards contained in Article 4.23 in the following ways:
 - A Pre- Application meeting occurred on October 8th, 2019 with the client, consultant and Charleston County Staff.
 - 2. A Conceptual PD Development Plan was presented to Charleston County Planning Commission at a Planning Commission Workshop on December 9th, 2019.
 - Three community workshops were held as part of the community outreach for the PD with a total of 157 people in attendance.

Community Meeting 1

Date: December 5th, 2019

Location: St. James Santee Elementary School

Number of Attendees: 58 participants

Community Meeting 2

Date: January 21st, 2020

Location: St. James Santee Elementary School

Number of Attendees: 76 participants

Community Meeting 3

Date: January 23rd, 2020

Location: Wando Mt. Pleasant Library Number of Attendees: 23 participants

- A Draft Plan Development Plan Submittal was made to Charleston County for staff review. Charleston County Staff provided comments that were addressed in this PD.
- 5. The complete PD Development Plan Application was submitted to the County including all required items as specified by the County.
- 2. The development is consistent with the intent of the Comprehensive Plan and other adopted policy documents; and
 - i. The PD will provide educational, recreational and community facilities for an underserved area of the County that is accessible to all residents of Charleston County. The project is located off Highway 17 and has access off existing roads, minimizing the overall impact of the site. Buffers adjacent to the road and existing residential uses is provided to screen incompatible land uses and enhance the school property. Overall, the proposed use is consistent with the intent of the Comprehensive Plan and other adopted policy documents as further detailed in the "Intent and Results of Proposed PD" section.
- 3. The County and other agencies will be able to provide necessary public services, facilities, and programs to serve the development proposed, at the time the property is developed.
 - i. Letters of coordination are provided from SCDOT, Charleston County Sheriff, US Postal Service, Fire, EMS, Berkeley Electric, and Charleston County Stormwater that state the County and other agencies will be able to provide the necessary public services, facilities, and programs to serve the development proposed, at the time the property is developed. See the Letters of Coordination in Appendix M.

11. Historical and Archaeological Survey

There are no known historical or cultural artifacts on this property. See Appendix K for Historical and Archaeological Site Assessment.

12. Letters of Coordination

See Appendix M for the Letters of Coordination.

13. Dimensional Standards

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MINIMUM SETBACKS (SCHOOL BUILDING)	
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INTERIOR SIDE	100 FEET
REAR	100 FEET
MINIMUM SETBACKS (ALL OTHER BUILDINGS S	
FRONT/STREET SIDE	100 FEET
INTERIOR SIDE	25 FEET
REAR	10 FEET
MINIMUM BUFFERS	
HWY 17	100 FEET, S3
NORTH SIDE (RM-FOREST)	0 FEET
EAST SIDE (RM-FOREST)	O FEET
EAST SIDE (AGR-RESID.)	25 FEET, TYPE B
WEST SIDE (AG-10)	O FEET
JENKINS HILL ROAD	35 FEET
FRESHWATER WETLAND*	15 FEET
OCRM CRITICAL LINE	50 FEET
MAXIMUM HEIGHT	
HEIGHT – SCHOOL	50 FEET
HEIGHT - SCHOOL HEIGHT- ALL OTHER USES	35 FEET
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MINIMUM LOT AREA	1 ACRE
MINIMUM LOT WIDTH	135 FEET
MAXIMUM BUILDING COVER	30% OF LOT

^{*}Note: Freshwater wetland does not include the existing non-jurisdictional pond.

14. Architectural Guidelines

- A. Architectural design for the school will reflect the local rural character. See Appendix F for a conceptual plan for the school.
- B. Architectural standards shall comply with Article 9.6 of the Charleston County Zoning and Land Development Regulations Ordinance (ZLDR).
- C. An architectural wall is not required when ten (10) or more parking spaces are located between the right-of-way and front façade of a building. There is a 100' required buffer along Highway 17 and the school building is setback from the road far enough to provide an effective visual buffer for the parking area.

15. Lots to Abut Upon Common Open Space

No individual lots are planned for this site.

16. Access

- A. Access to the site shall be primarily provided via U.S. Highway 17 and Jenkins Hill Road. SCDOT approval and applicable encroachment permit shall be required for all activity within the highway right of way. Any improvements or access to Jenkins Hill Road will require approval by Charleston County.
- B. Within the site, paved vehicular accessways will be provided in 24-foot and 15' minimum widths for two and one lane traffic. Lanes specifically designed for student drop-off and for buses, including stacking space for both, will be provided to serve the schools. Areas between structures shall be covered by easements where necessary for access, maintenance and utility service.

17. Commercial Areas

There are no commercial areas associated with this PD.

18. Industrial Areas

There are no industrial areas associated with this PD.

19. Areas Designated for Future Use

Development will remain in its natural state until such time as development permits are approved.

20. Signs and Lighting

- A. One monument style, externally lit, free standing sign that complies with the requirements of ZLDR Art. 9.11will be provided to address Highway 17. Light Emitting Diode LED Message Boards are allowed and do not require a special exception. LED Message Boards shall comply with Article 9.11 Signs of the ZLDR and be incorporated into the monument style sign.
- B. One secondary sign addressing the entrance along Jenkins Hill Road that complies with the requirements of ZLDR Art.9.11 is allowed.
- C. Directional signage shall be allowed internal to the site and shall comply with ZLDR Article 9.11.
- D. All site lighting shall comply with Article 9.6.4.C. of the ZLDR.
- E. Lighting for the sports and recreation areas shall follow the IES guidelines for Sports and Recreational Area Lighting. Illumination levels for field sports shall not exceed 50 foot-candles. Light poles shall not exceed 80 feet in height. If other specifications have not been determined, lighting for recreation fields shall comply with Article 9.6.4.C. of the ZLDR.

21. Parking

- A. Parking is per CCSD standards for schools: one (1) space per each vehicle owned and operated by the school, plus two (2) per employee (including faculty, administrative, etc.), plus 1 per 8 students.
- B. Parking shall comply with Article 9.3 of the ZLDR.

22. Tree Protection

Tree protection, preservation, and replacement shall meet or exceed regulations outlined in Article 9.4 of the Charleston County Zoning and Land Development Regulations Ordinance (ZLDR).

23. Resource Areas

- A. Several large hardwood trees that are found in the northwest corner of the site will remain. Existing irrigation ditches and the primarily pine trees that have grown along them will be filled and removed as necessary to provide for the development of the site and for the safety of students. Tree protection, preservation and replacement shall meet or exceed regulations outlined in Article 9.4 of the ZLDR.
- B. The PD does not anticipate plans to change the non-jurisdictional pond located at the rear of the property however, if necessary, the pond may be modified, altered or removed.

24. Common Open Space

- A. Landscaping shall meet or exceed regulations outlined in Article 9.5 Landscaping, Screening and Buffers of the ZLDR.
- B. As illustrated on the Aerial Conceptual Sketch Plan, in Appendix D, proposed Common Open Space will include +/-74.88 acres, or a minimum of 70% of the overall 107.2 acres. Areas include all athletic fields and recreational structures, and septic drip field with surrounding 100' buffer.
- C. All fencing shall be commensurate with the type of facility provided. All fencing shall meet or exceed regulations outlined in the ZLDR at the time of subsequent development application. School fencing shall meet Charleston County School District requirements for safety.

25. Special Events

Special events shall meet regulations in Article 6.7 Special Events Use of the ZLDR.

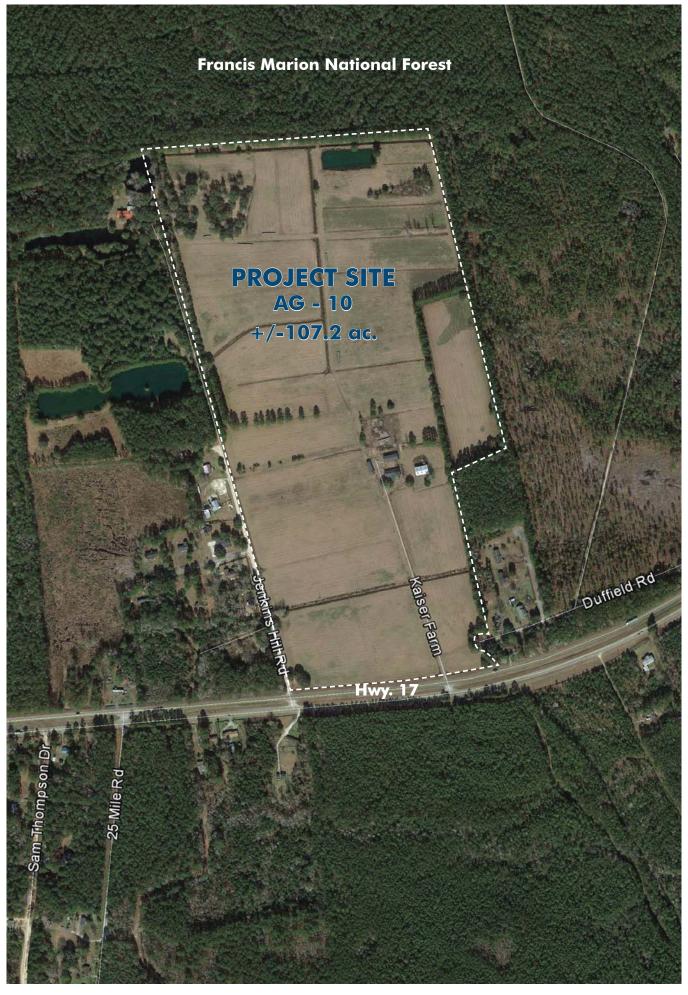
26. Maintenance

It is the intent of CCSD to maintain the property by leasing the property to the current owner to continue use as a hay field. Once purchased by CCSD, if the prior owner chooses not to lease the property, it will be placed under the current CCSD maintenance contracts, or by other means.

The ownership group conducted a review of the buildings on site and determined what needed to remain for the property to continue to be a working hayfield. It was determined that two structures (See Images 1 and 4 in Appendix N: Existing Buildings) will be demolished six months upon closing of the property.

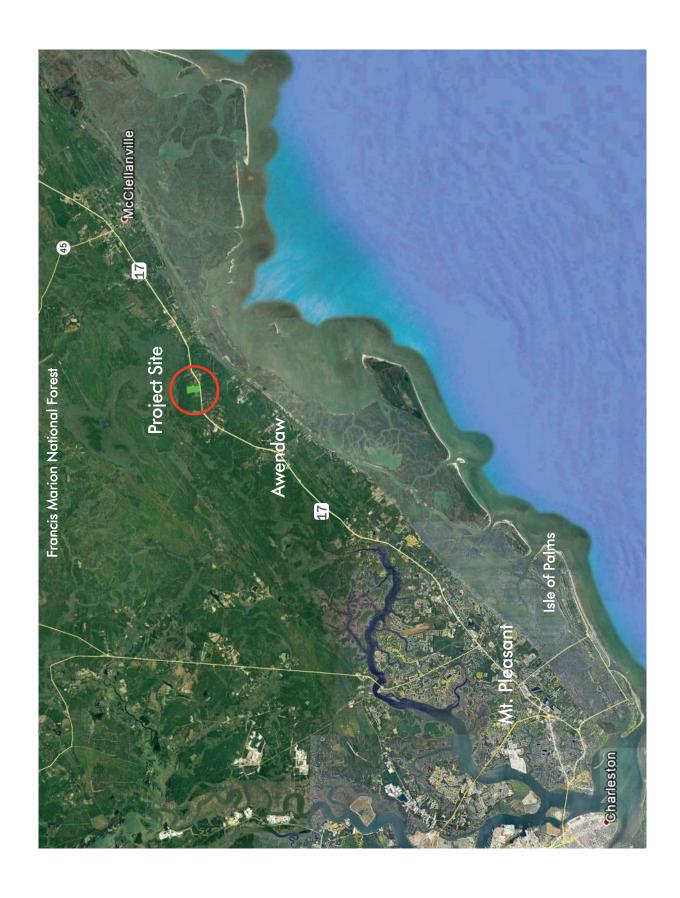
APPENDIX A:

SITE LOCATION MAP & CURRENT AERIAL



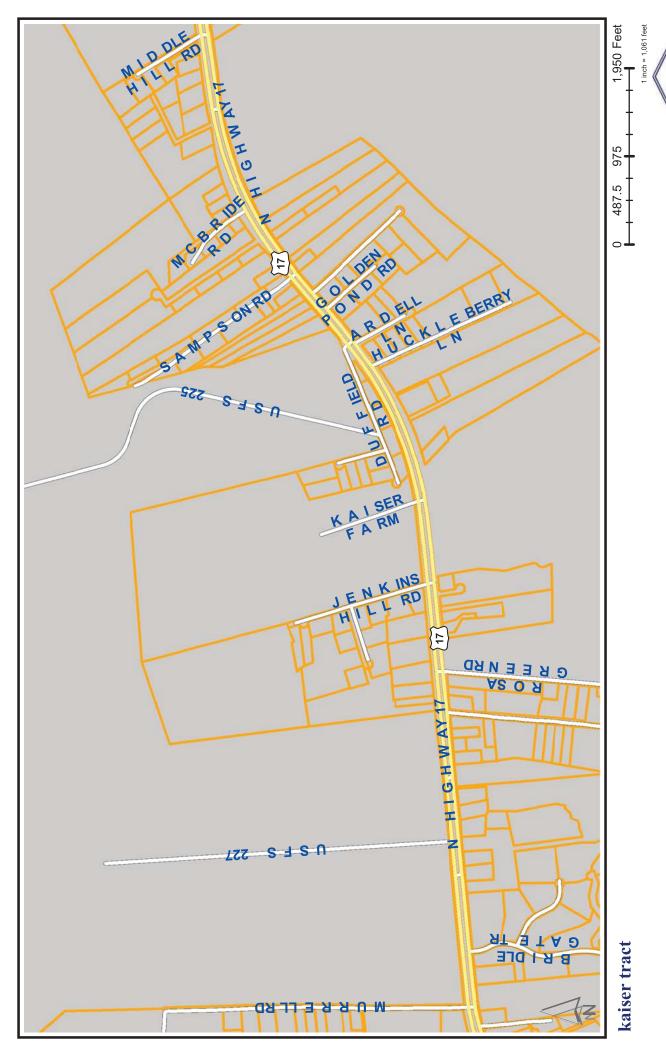






APPENDIX B:

TAX MAP & EXISTING LAND USE MAP



Note: The Charleston County makes every effort possible to produce the most accurate information. The layers contained in the map service are for information purposes only. The Charleston County makes no warranty, express or implied, nor any guaranty as to the content, sequence, accuracy, timeliness or completeness of any of the information provided. The County explicitly disclaims all representations and warranties. The reader agrees to hold harmless the Charleston County for any cause of action and costs associated with any causes of action which may arise as a consequence of the County providing this information.

CHARLESTON
CHARLESTON
COUNTY
SOUTH CAROLINA
Author: Charleston County SC
Date: 2/18/2019



Charleston County SC

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Author: Charleston County SC Date: 11/26/2019

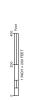
APPENDIX C: AS-BUILT SURVEY/ TREE SURVEY



A TREE AND TOPOGRAPHICAL SURVEY OF CHARLESTON COUNTY, SOUTH CARGOLINA CHARLESTON COUNTY, SOUTH CAROLINA CHARLESTON COUNTY, SOUTH CAROLINA

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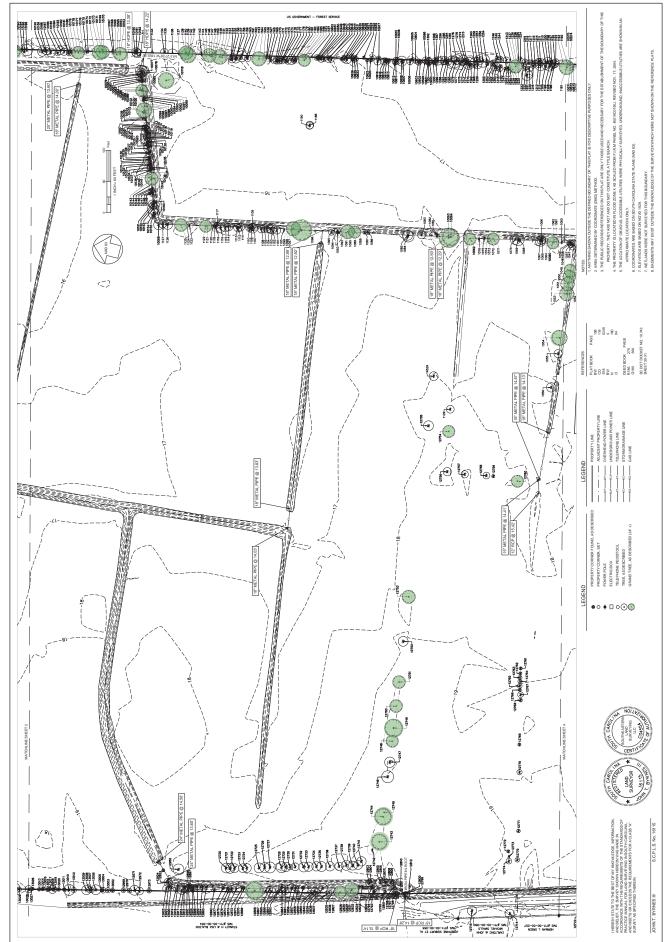
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A TREE AND TOPOGRAPHICAL SURVEY OF CHARLESTON COUNTY, SOUTH CAROLINA CHARLESTON COUNTY, SOUTH CAROLINA CHARLESTON COUNTY, SOUTH CAROLINA





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A TREE AND TOPOGRAPHICAL SURVEY OF KAISER FARM CHARLALTATION, LLC CHARLESTON COUNTY, SOUTH CAROLINA CHARLESTON COUNTY, SOUTH CAROLINA







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APPENDIX D: AERIAL CONCEPTUAL SKETCH PLAN



General Notes:

Ownrer.

Quarry Lake Plantation, LLC
PO Box 973

Charleston, SC 29403

Charlesson Countly School District.
7C actinoum Charleston, SC 29401 Choract. Angele Bannette Contact. Angele Bannette ennalt. angele bannette@charleston.k12.sc.us Phone. (843) 937-6300 Developer: Charleston County School District

Engineers/Land Planners: Seamon Whiteside 501 Wando Park Blvd., Sto. 200 Mount Pleasant, Sc 29464 Contact. Lee Castley email: (gastley@eamonwhiteside.αc Phone: 943. 864-1667

Site Information

TMS NO: 711-00-00-052 Property is located in Flood Zone X as scaled from F.LR.M Panel No. 45019C 0190J dated November 17, 2004.

±0.87 AC ±106.33 AC NON-JURISDICTIONAL WETLAND UPLAND

Sketch Plan Notes HIGH SCHOOL / MIDDLE SCHOOL (facilities): MANN BUILDING ford uncopression) ±1.00 MANN BUILDING ford uncopression ±1.00 PROVIDE SIEMFOLDER ACCESS ±11.10 PROVIDE BUILFERS FOOD (1935): N. WETLAND) ±16.60 MANN BUILFERS FOOD (1935): N. WETLAND END (1935): N. WETLAND END (1935) MANN BUILFERS FOOD (1935): N. WETLAND END (1935)

Proposed Uses

Legend

- This Statch Plan is conceptual in nature and final location of features may be adjusted to final account of features. The final ispoul, slow for or site conditions. The final ispoul, shown or mist plan in the guest in final or or mist plan for future expansion or not lace deligated for future expansion or not increased for immediale improvement or development shall memorial in matural slate or fit scord for immediale improvement or or fit is not it may also development plan or fit is not it may as development plan in such as the condition of the condition of the condition of the or fit is not it may be development and in the condition of the or fit is not it may be development and in the condition of the or fit is not in the same of the condition of the condition of the or fit is not in the same of the condition of the condition of the or fit is not in the same of the condition of the condition of the or fit is not in the same of the condition of the condition of the or fit is not in the same of the condition of the condition of the or fit is not in the same of the condition of the condition of the or fit is not in the same of the condition of
 - approved

 Meanmur 4% building coverage

 Maximum height of structures shall be 35

 measured from base loved elevation to the halfway point between the save and the peak of the highest roof element.

to those uses. These eness may be utilized as pedestrien access general landscaped or unused space. Remaining unbulk space includes areas that do not fit in a listen that are generally non-configuous unused space. May include sidewalks or landscaped areas.

existing grand tree (24*+ dbh) existing protected tree (8*-24* dbh)

<u></u>00



drainage swale puod

Site Location Map



AERIAL CONCEPTUAL SKETCH PLAN

AWENDAW / MCCLELLANVILLE
HIGH SCHOOL / MIDDLE SCHOOL
CHARLESTON COUNTY, SOUTH CAROLINA
CHARLESTON COUNTY, SOUTH CAROLINA
CAROLINA
CONTRACTOR

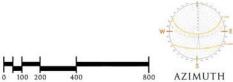






CONCEPTUAL MASTER PLAN

NOTE: THIS PLAN IS CONCEPTUAL IN NATURE AND SUBJECT TO CHANGE BASED ON FINAL SURVEY DATA, DEVELOPMENT PROGRAM INFORMATION, MUNICIPAL AND REQULATORY INPUT, ETC. IT IS INTENDED TO BE USED ONLY AS A RESOURCE TO ESTABLISH THE POTENTIAL FOR VARIOUS DEVELOPMENT SCENARIOS.





02/28/2020

APPENDIX E:

WETLAND LETTER APPLICATION & RECEIPT



DEPARTMENT OF THE ARMY CHARLESTON DISTRICT, CORPS OF ENGINEERS 69A HAGOOD AVENUE

CHARLESTON, SOUTH CAROLINA 29403-5107

FEB - 5 2019

Regulatory Division

Mr. William Wilson Sabine & Waters, Inc. PO Box 1072 Summerville, South Carolina 29483



Dear Mr. Wilson:

This letter is in response to your request for an Approved Jurisdictional Determination (AJD) (SAC-2018-01542) received in our office on September 26, 2018, for a 107.2-acre site located on Kaiser Farm in McClellanville, Charleston County, South Carolina (Latitude: 33.0437°N, Longitude: -79.5984 °W). An AJD is used to indicate that this office has identified the presence or absence of wetlands and/or other aquatic resources on a site, including their accurate location(s) and boundaries, as well as their jurisdictional status pursuant to Section 404 of the Clean Water Act (CWA) (33 U.S.C. § 1344) and/or navigable waters of the United States pursuant to Section 10 of the Rivers and Harbors Act of 1899 (RHA) (33 U.S.C. § 403).

The site in question is shown on the enclosed depiction entitled "Site Map – Kaiser Tract Ravenel Commercial Properties Charleston County, SC" and dated July 3, 2018, prepared by Sabine & Waters, Inc. Based on an on-site inspection, a review of aerial photography, topographic maps, National Wetlands Inventory maps, LIDAR, soil survey information, and Wetland Determination Data Form(s), this office has determined that the referenced site, as shown on the referenced depiction, does not contain any aquatic resources that are subject to regulatory jurisdiction under Section 404 of the CWA or Section 10 of the RHA.

Enclosed is a form describing the basis of jurisdiction for the area(s) in question. It should also be noted that some or all of these areas may be regulated by other state or local government entities. Specifically, you are encouraged to contact the South Carolina Department of Health and Environmental Control, Bureau of Water or the Department of Ocean and Coastal Resource Management, to determine the limits of their jurisdiction.

Please be advised that this AJD is valid for five (5) years from the date of this letter unless new information warrants revision before the expiration date. This AJD is an appealable action under the Corps of Engineers administrative appeal procedures defined at 33 CFR Part 331. The administrative appeal options, process and appeals request form is attached for your convenience and use.

This AJD has been conducted pursuant to Corps of Engineers' regulatory authority to identify the limits of Corps of Engineers' jurisdiction for the particular site identified in this request. This AJD may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

In all future correspondence concerning this matter, please refer to file number SAC-2018-01542. A copy of this letter is being forwarded to certain State and/or Federal agencies for their information. If you have any questions concerning this matter, please contact Leslie Estill, Project Manager, at (843) 329-8039.



Sincerely,

Tracy Sanders

Biologist

Enclosures:

Approved Jurisdictional Determination Form

Notification of Appeal Options

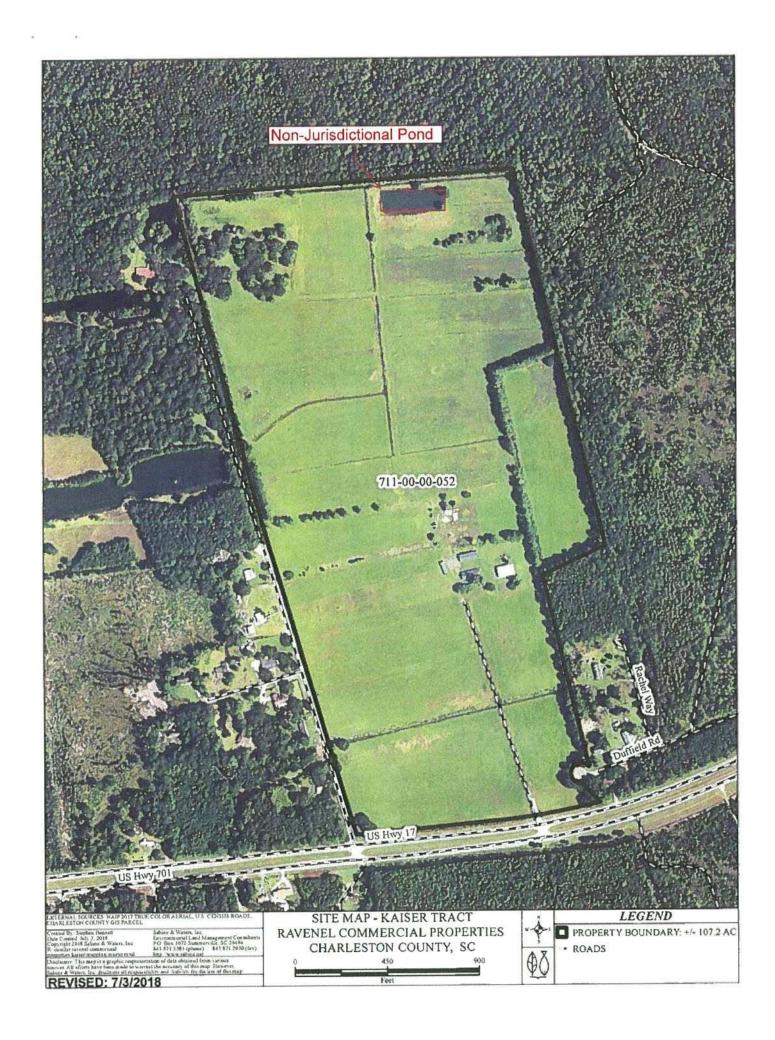
Depiction entitled "Site Map – Kaiser Tract Ravenel Commercial Properties Charleston County, SC"

Copies Furnished:

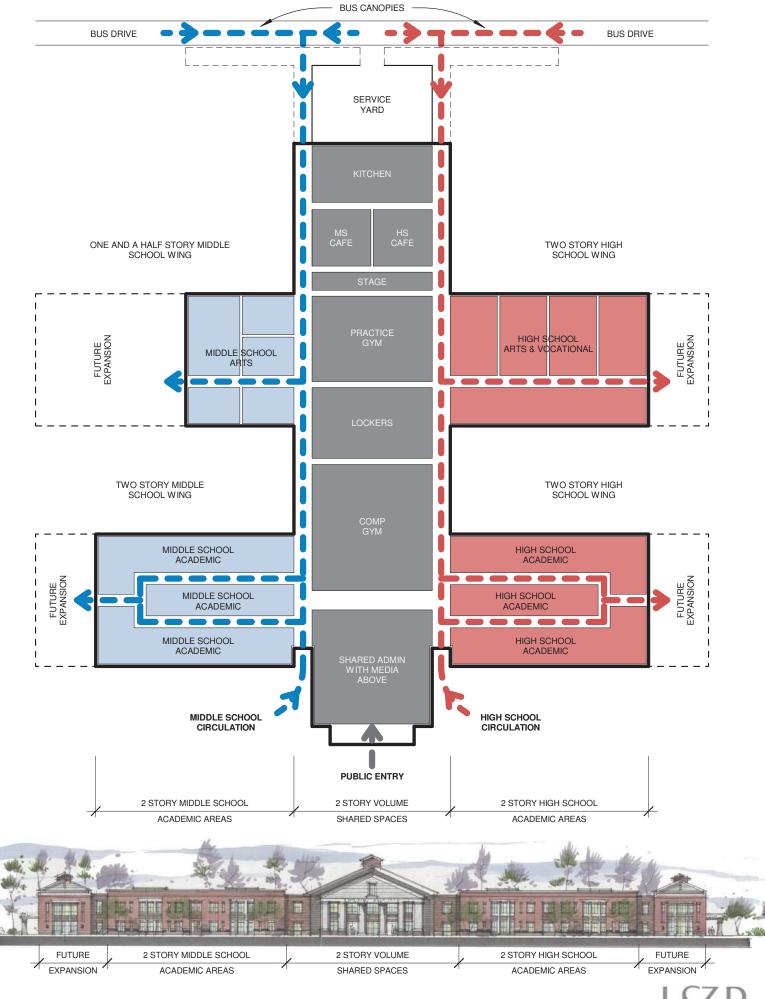
Mr. Barry Gumb Qyarry Lake Plantation, LLC 525 East Bay Street, Suite 100 Charleston, South Carolina 29403

South Carolina Department of Health and Environmental Control Bureau of Water 2600 Bull Street Columbia, South Carolina 29201

South Carolina Department of Health and Environmental Control Office of Ocean and Coastal Resource Management 1362 McMillan Avenue, Suite 400 Charleston, South Carolina 29405



APPENDIX F: ARCHITECTURAL SITE PLAN



APPENDIX G: LANDSCAPE SKETCH PLAN



Site Location Map

SANOPY TREE (TYP.)



R zoning)				
adj. to AGI	tota	47*	62	308
property line	multiplier	15,38	15,38	15,38
d along west Hength 1,538	per 100'	3	4	20
Buffer #3 (located along west property line adj. to AGR zoning 25' Type B - total length 1,538 lf	plant type	canopy/street tree	understory tree	shrubs
		l		

NTS

(TYP.)
' STREET TREE (TYP.)

Typical Land use Buffer Plantings

existing grand tree (24*+ dbh) existing protected tree (8*-24* dbh)

Legend \odot \circ

INDERSTORY TREE (TYP.)

35' - total length 1,411 lf	411		1	25' Ty
plant type	per 100'	multiplier	total	plant t
canopy/street tree	2	14,11		cano
understory tree	9	14.11	85	nuderst
shrubs	40	14.11	565	shrubs

ş	otes:
÷	er Charleston County ZLDR, 2 street trees are required per 100 If in S3 bu
ĸ.	Existing trees may count toward canopy tree requirements.

NOTE: THIS PLAN IS CONCEPTUAL IN NATURE AND SUBJECT TO CHANGE.

total 48* 72 478

multiplier 11.93 11.93

Suffer #1 (located along U.S. Hwy 17 N) 100' Type S3 - total length 1,193 lf



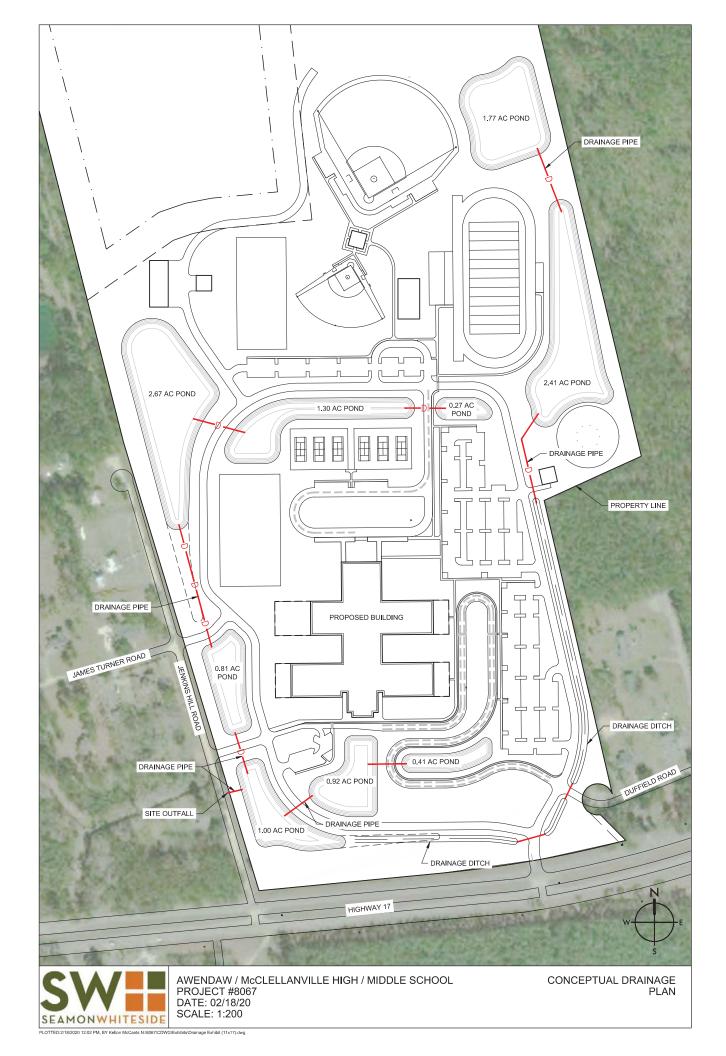


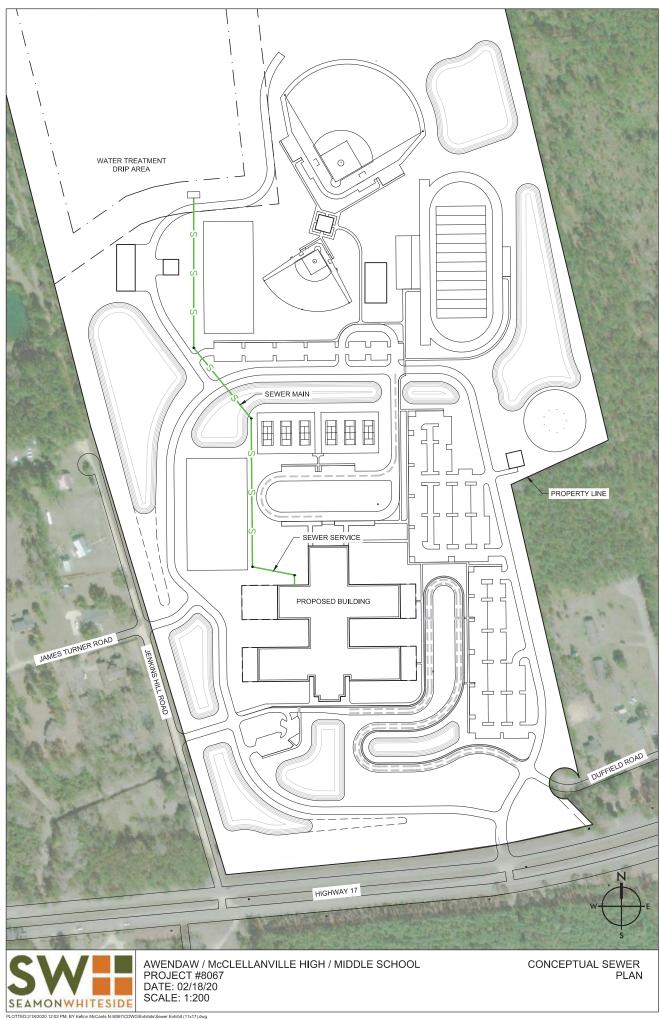


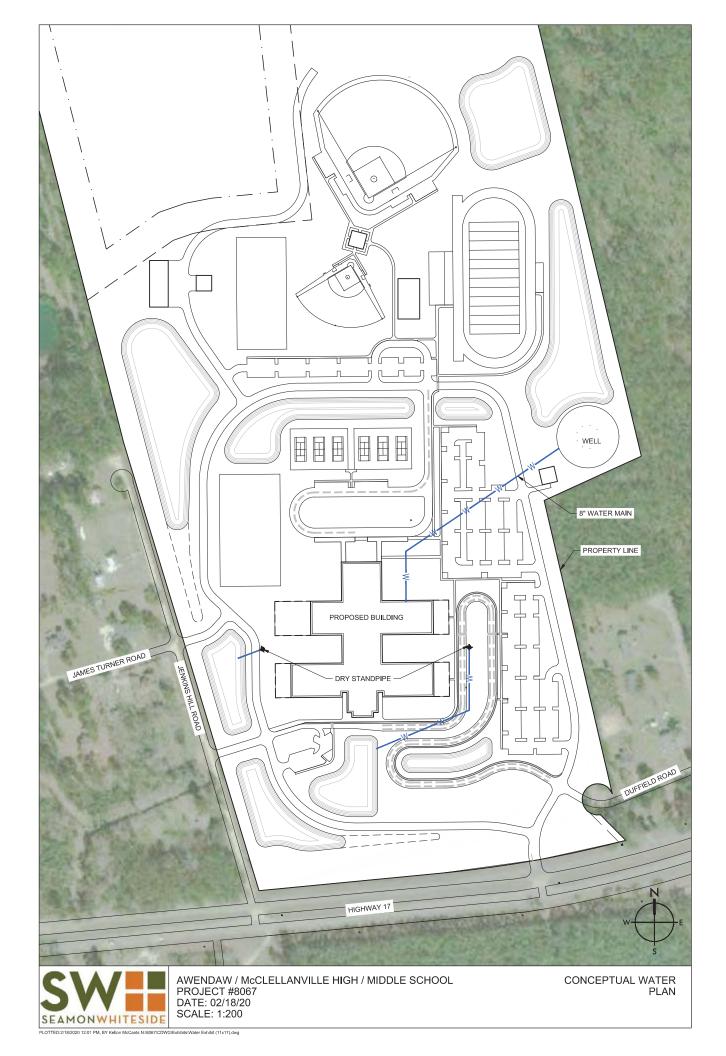
LANDSCAPING SKETCH PLAN

APPENDIX H:

UTILITY PLANS







APPENDIX I: CIRCULATION PLAN





APPENDIX J:

TRAFFIC IMPACT & ACCESS STUDY

TRAFFIC IMPACT AND ACCESS STUDY

HIGH SCHOOL/MIDDLE SCHOOL IN AWENDAW CHARLESTON COUNTY, SC

Prepared for:

SEAMON WHITESIDE + ASSOCIATES

501 Wando Park Boulevard, Suite 200 Mount Pleasant, SC 29464

Prepared by:

RIDGEWAY TRAFFIC CONSULTING, LLC

1720 Dutch Fork Road, Suite F Irmo, SC 29063



SUBMITTED FEBRUARY 2020

PROJECT DESCRIPTION & EXISTING CONDITIONS

Ridgeway Traffic Consulting (RTC) has been retained to evaluate the traffic and transportation impacts resulting from the construction of a new high school/middle school campus for the Charleston County School District near Awendaw, South Carolina.

Evaluation of the transportation impacts associated with the proposed project first requires a thorough description and quantification of the proposed project and the project site, which is included in the following sections.

PROJECT DESCRIPTION

The project proposal is to construct a new combined high school/middle school campus along the north side of US 17 in the proximity of Kaiser Farm Road in rural Charleston County near Awendaw, South Carolina. **Figure 1** depicts the site location in relation to the local and regional roadway system.

Access for the school is currently proposed via a main entrance for students, staff and parent drop-offs/pick-ups to US 17 in the current location Kaiser Farm Road where an existing median break is provided. A second entrance for students, staff and parent drop-offs will be provided to Jenkins Hill Road. The bus loop will be serviced via a separate connection to Jenkins Hill Road. Connectivity to the east to Duffield Road is also proposed.

Details/recommendations for the site access drives are provided in the Mitigation section of this report.

Under the current development plan, the school is anticipated to open in the Fall of 2025, which is the horizon year analyzed for this report. **Figure 2** depicts the conceptual plan for the school.

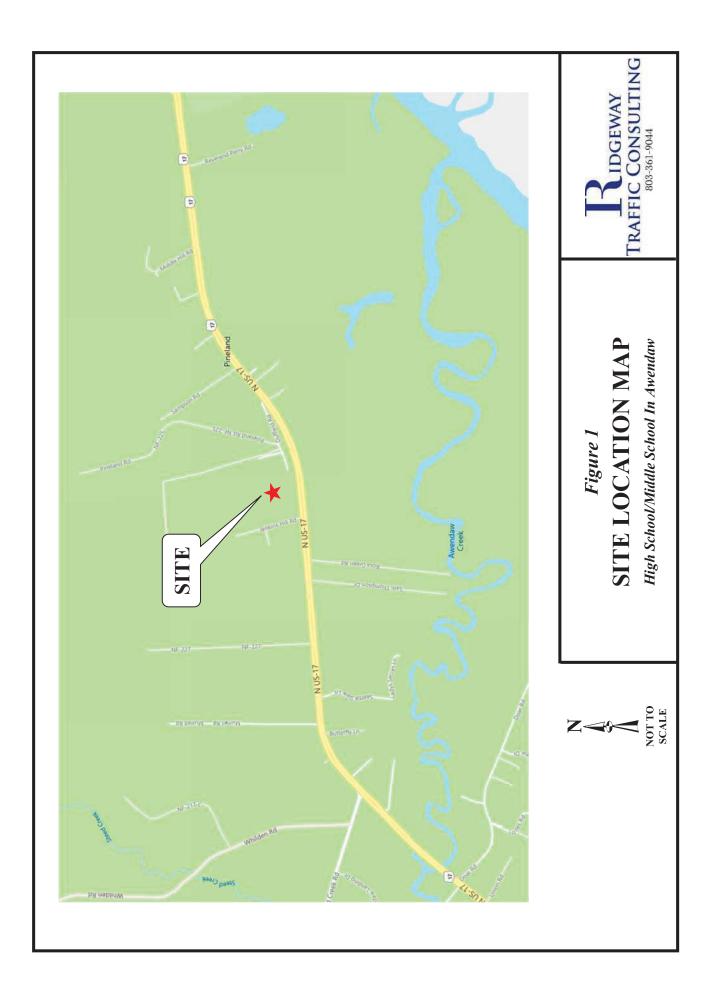
GEOMETRICS AND TRAFFIC CONTROL

A comprehensive field inventory of the site and study area has been conducted. The field inventory included a collection of geometric data, traffic volumes, and traffic control within the study area.

Study Area Roadway

US 17 – is a four-lane divided major arterial across site frontage with two lanes provided in each direction separated by a grassed median. The posted speed limit across site frontage is currently 60 miles-per-hour (mph). This roadway is maintained by the SCDOT.

The existing lane geometrics and traffic control characteristics for the study area roadways/intersections are graphically depicted in **Figure 3**.





NOTE THIS PLAN IS CONCEPTUAL IN NATURE AND SUBJECT TO CHANGE BASED ON FINAL SURVEY DATA. DEVELOPMENT PROGRAM INFORMATION, MUNICIPAL AND REQULATORY MYOUT. TECT, IT IS INTENDED TO BE USED ONLY AS RESOURCE TO ESTABLISH THE POTENTIAL FOR VARIOUS DEVILOPMENT SCENARIOS.

02/19/2020

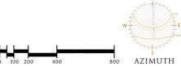




Figure 2 PROPOSED SITE PLAN

High School/Middle School In Awendaw



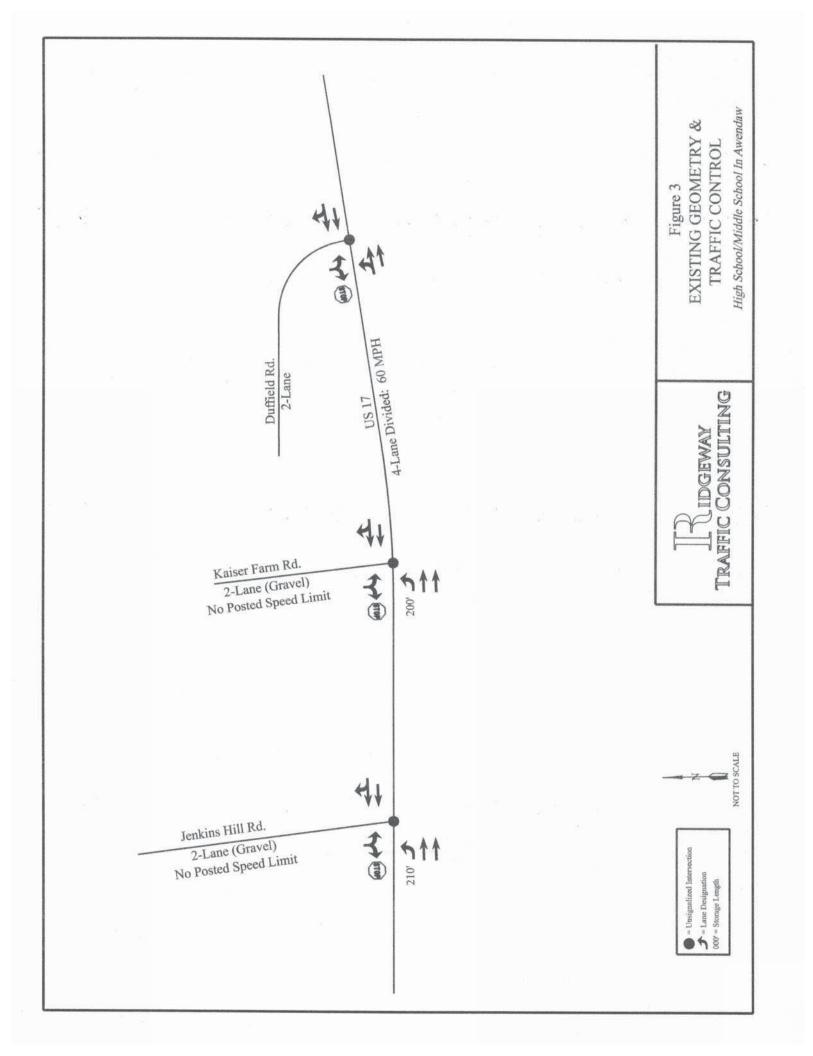
TRAFFIC VOLUMES

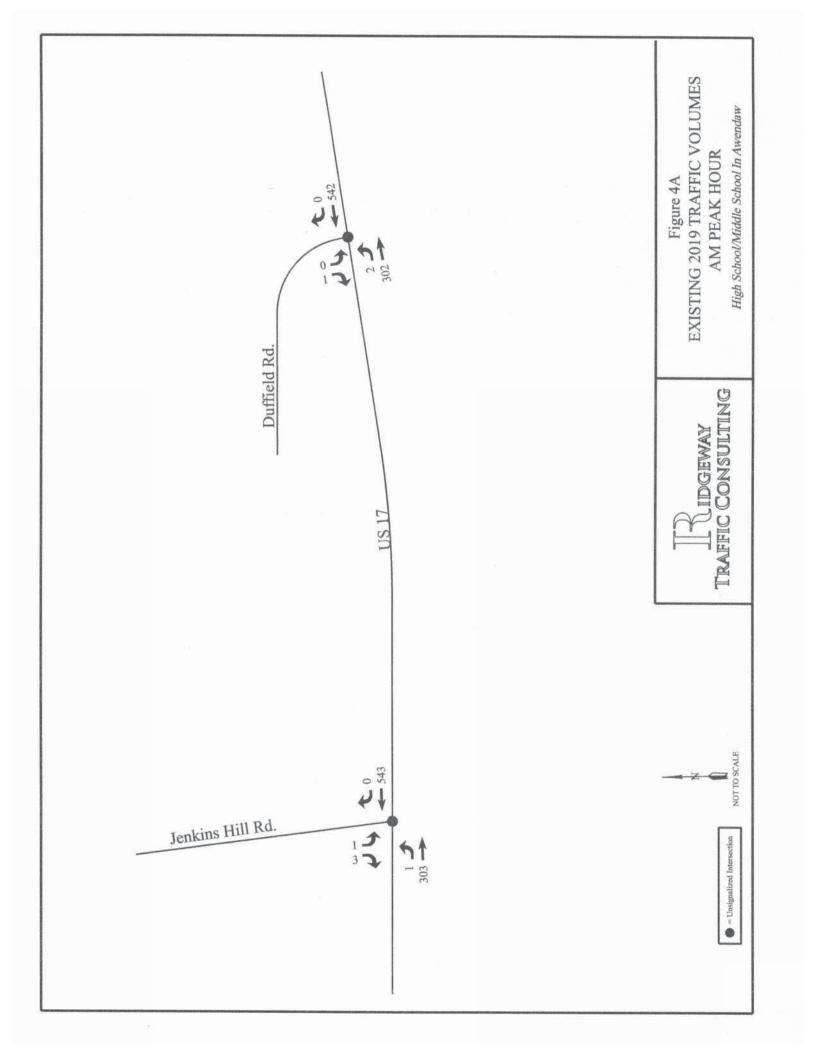
In order to determine the existing traffic volume flow patterns within the study area, manual turning movement counts were gathered for the weekday morning (7:00-9:00 AM) and afternoon (2:00 – 6:00 PM) peak time periods for the following study area intersections along US 17:

- US 17 at Jenkins Hill Road; and
- US 17 at Duffield Road.

The PM peak hour was expanded by two hours to pick up times when the school is anticipated to peak in the afternoon, which is before the commuter PM peak. The AM peak hour for the school is anticipated to coincide with the typical commuter peak.

The existing peak-hour traffic flow networks for the weekday AM, School PM and Commuter PM peak-hour periods are shown graphically in **Figures 4A-4C**.





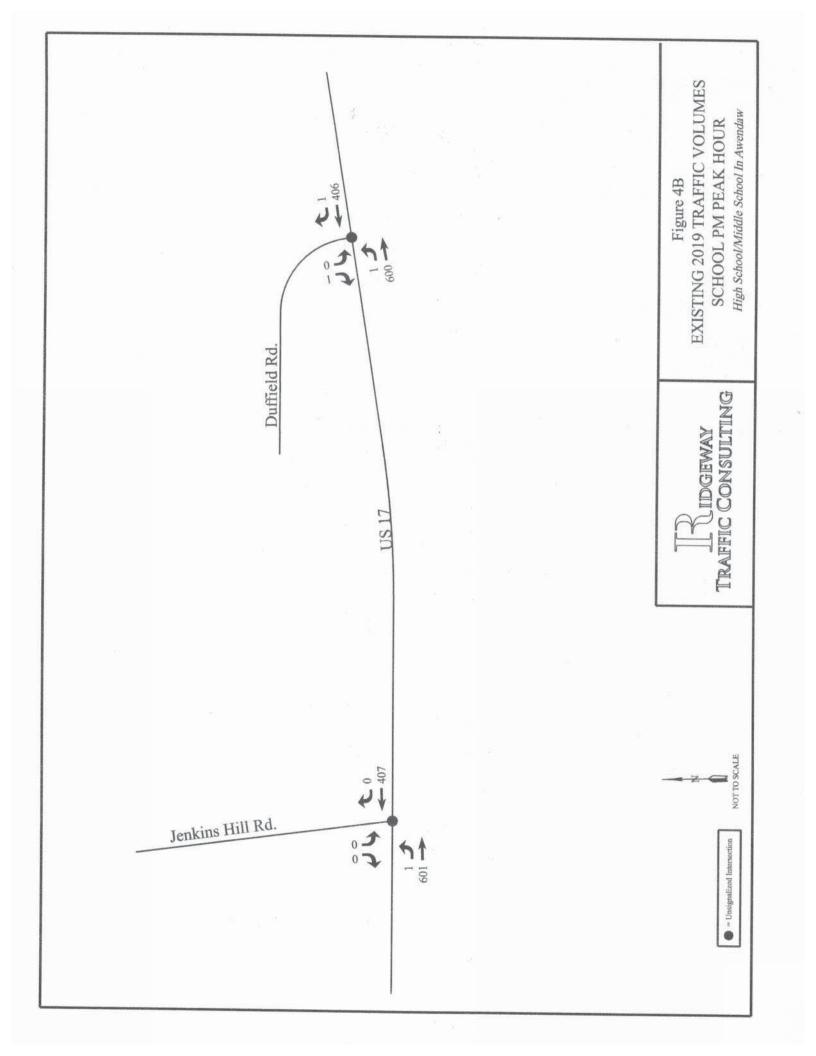


Figure 4C EXISTING 2019 TRAFFIC VOLUMES High School/Middle School In Awendaw PM PEAK HOUR \$ 586 2885 Duffield Rd. TRAFFIC CONSULTING NOT TO SCALE Jenkins Hill Rd. 0 \$ **↑** 169 = Unsignalized Intersection

PROBABLE IMPACTS OF THE PROJECT

To estimate the impact of site-generated traffic volumes on the roadway network under Future conditions, Existing traffic volumes in the study area were projected to the Year 2025, which is when the proposed school is expected to be constructed and operational. Traffic volumes on the roadway network at this time will include all existing traffic, any new traffic due to normal traffic growth, and any traffic related to specific developments that are presently approved and expected to be completed by 2025 (in excess of normal traffic volume growth). Consideration of these factors resulted in the development of 2025 No-Build traffic volumes. Anticipated site-generated traffic volumes were then super-imposed upon the 2025 No-Build traffic flow networks to reflect 2025 Build conditions including the proposed development.

BACKGROUND TRAFFIC GROWTH

Traffic growth on area roadways is a function of the expected land development both within the immediate area as well as the surrounding region. Several methods can be used to estimate this growth. A procedure frequently employed identifies the location and type of approved/permitted development. This produces a realistic estimate of growth for local traffic. However, the drawback of this procedure is that the potential growth in population and traffic growth external to the study area would not be accounted for in the traffic projections.

An alternative procedure estimates an annual percentage increase in traffic growth and applies that percentage to all traffic volumes under study. The drawback to such a procedure is that some turning movement volumes may be growing at either a higher or lower rate at particular intersections. To provide a conservative analysis framework, both procedures have been applied.

Specific Development

No specific background developments were identified for inclusion in future traffic volumes beyond normal annual growth.

Annual Growth

Based on a review of historical SCDOT traffic data for US 17 between Awendaw and McClellanville (Station #137), growth has been moderate over the past five years based on a 2013 reported volume of 9,400 vehiclesper-day (vpd) and a 2018 reported volume of 11,100 vpd. Based on this data, a 4-percent annual growth rate was developed and utilized for this report.

The anticipated 2025 No-Build AM and PM peak-hour traffic volumes, which include the 4-percent annual growth rate, are graphically depicted in **Figures 5A-5C** for the AM, School PM and Commuter PM peak hours.

Figure 5A 2025 NO-BUILD TRAFFIC VOLUMES High School/Middle School In Awendaw AM PEAK HOUR ↑ 672 672 374 4 Duffield Rd. TRAFFIC CONSULTING LIDGEWAY NOT TO SCALE ↑ ¢ 03 Jenkins Hill Rd. = Unsignalized Intersection

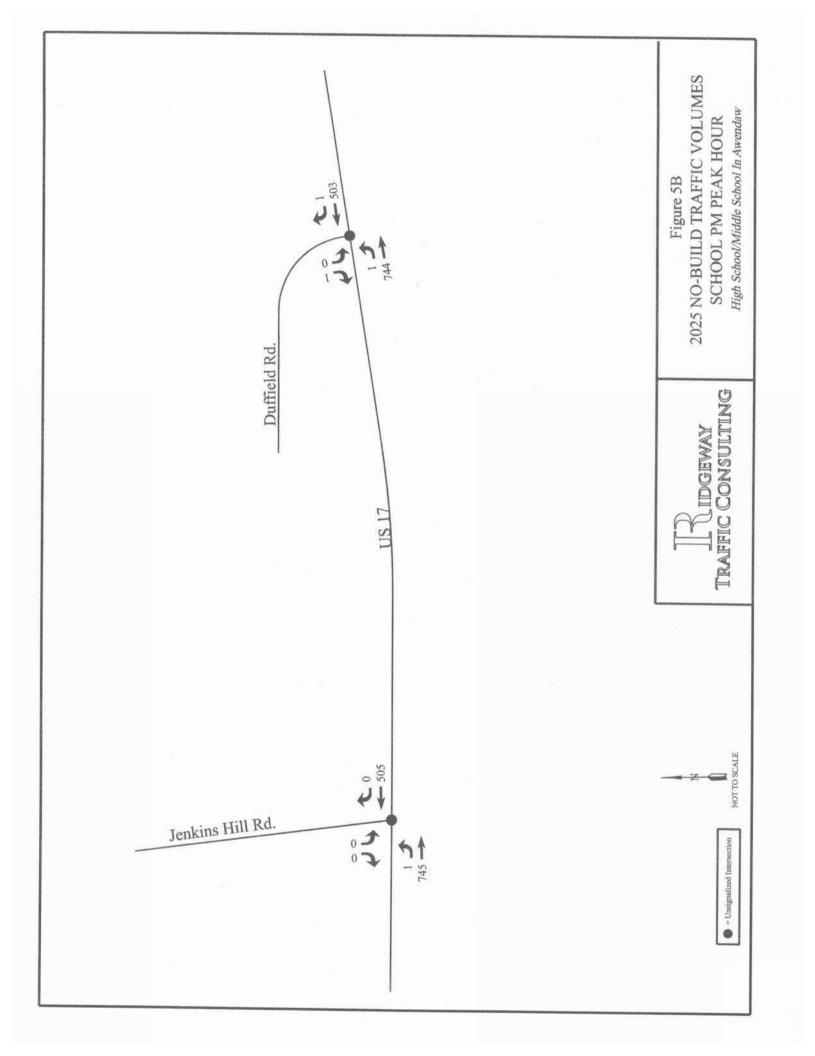


Figure 5C 2025 NO-BUILD TRAFFIC VOLUMES High School/Middle School In Awendaw PM PEAK HOUR ↑ C 2 413 730 1 Duffield Rd. TRAFFIC CONSULTING LIDGEWAY NOT TO SCALE ↑ 114 114 Jenkins Hill Rd. 0 \$ 73 1 Unsignalized Intersection

PLANNED ROADWAY IMPROVEMENTS

No funded roadway improvement projects were identified within the study area that are expected to add capacity by the time the project is completed.

SITE-GENERATED TRAFFIC

Traffic volumes generated by the proposed school campus were forecasted using the Tenth Edition of the Institute of Transportation Engineers (ITE) *Trip Generation* Manual¹. Land-Use codes #522 (Middle School/Junior High School) and #530 (High School) were used to project site traffic. **Table 1** summarizes the anticipated trip generation characteristics for the campus.

Table 1
PROJECT TRIP GENERATION SUMMARY¹
High School/ Middle School In Awendaw

Time Period	500 Student Middle School (a)	500 Student High School (b)	Total Trips (a+b)
AM Peak-Hour			
Enter	157	174	331
Exit	<u>133</u>	<u>86</u>	<u>219</u>
Total	290	260	550
PM Peak-Hour (School)			
Enter	80	68	148
Exit	<u>95</u>	<u>144</u>	<u>239</u>
Total	175	212	387
PM Peak-Hour (Commuter)			
Enter	42	34	76
Exit	<u>43</u>	<u>36</u>	<u>79</u>
Total	85	70	155

¹ ITE Trip Generation manual, 10th Edition: LUC 522 (Middle/Jr. High School) & LUC 530 (High School)

As shown, the proposed campus is expected to generate a total of 550 trips (331 entering, 219 exiting) during the AM peak-hour, with 387 trips (148 entering, 239 exiting) during the school PM peak-hour. During the typical commuter PM peak hour, a total of 155 trips (76 entering, 79 exiting) can be expected.

Distribution Pattern

Traffic for the new school been assigned based on observed patterns in the area and information provided by the School District. This pattern is shown in **Table 2**. In general, 70-percent of students for the campus are expected to arrive from the west (Awendaw and Mount Pleasant), with the balance from the east (McClellanville). Exiting movements during the AM are expected to be more heavily weighted to the west due to parents that drop a student from the east and then continue towards Mount Pleasant. This pattern is expected to be reversed during the PM hours.

¹ Trip Generation, Tenth Edition; Institute of Transportation Engineers; Washington, DC.

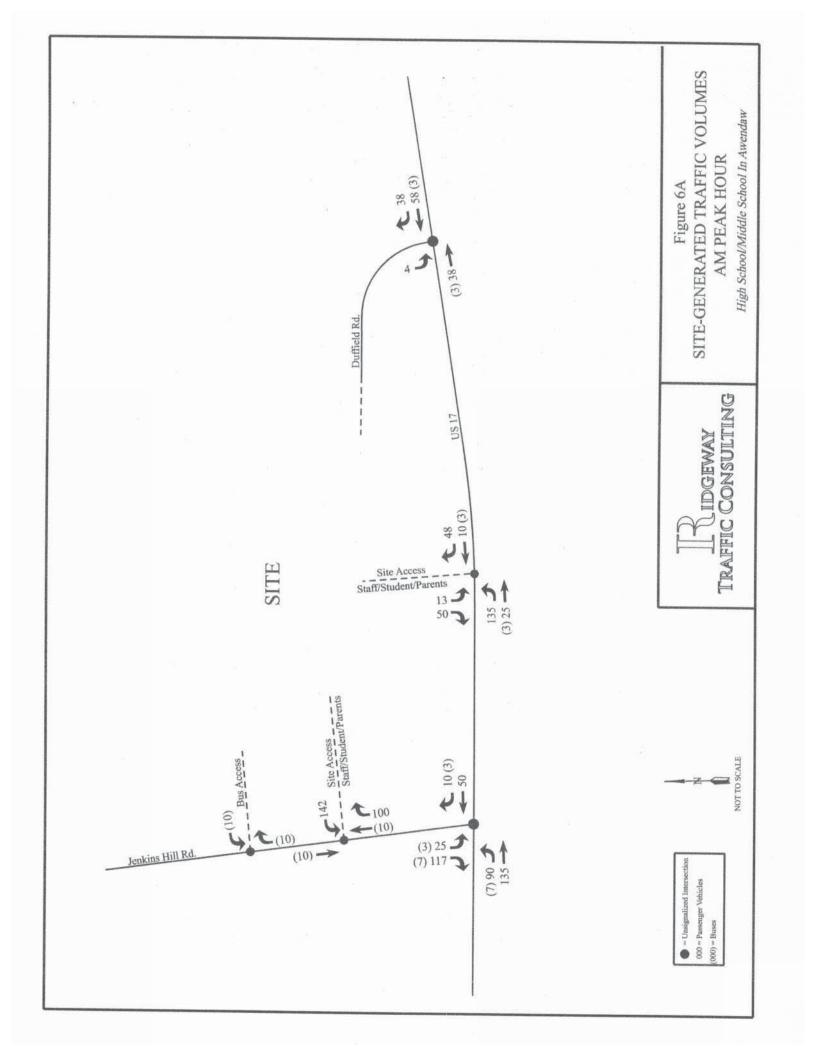
Table 2
PROJECT TRIP-DISTRIBUTION SUMMARY¹
High School/ Middle School In Awendaw

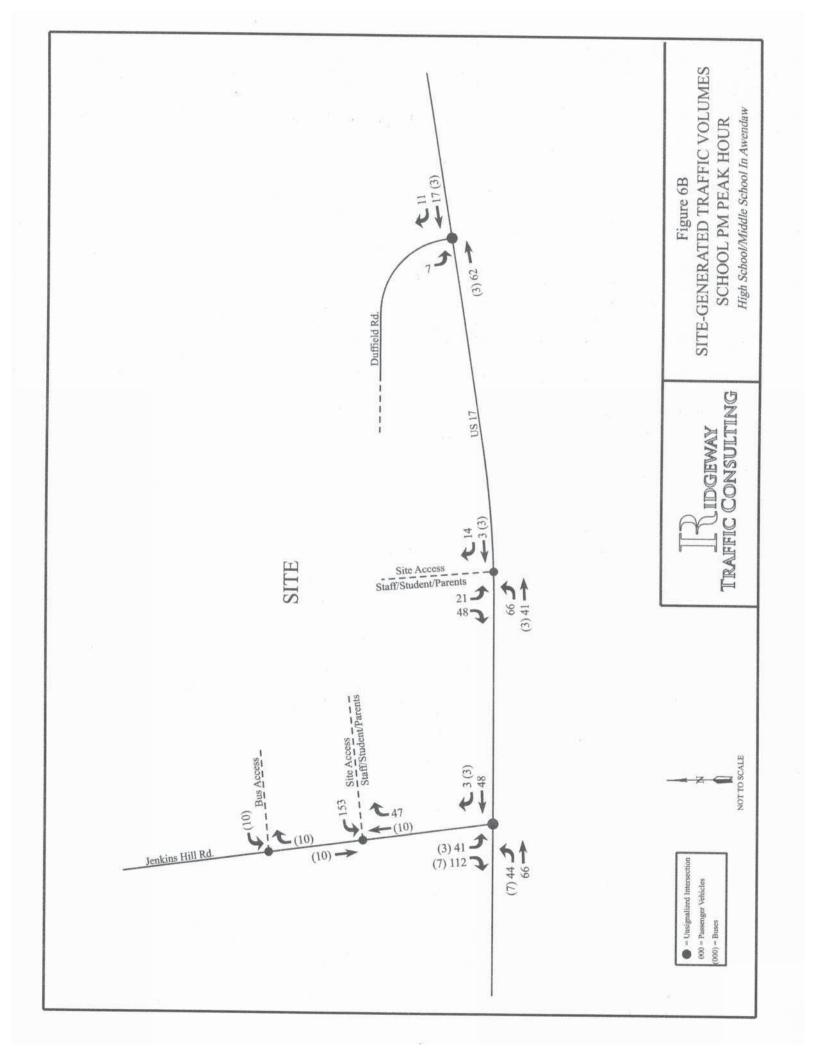
		AM PEAI	K-HOUR	PM PEAI SCH		PM PEAF	
Roadway	Direction To/From	Enter	Exit	Enter	Exit	Enter	Exit
US 17	East (McClellanville)	30	20	20	30	20	30
	West (Awendaw/ Mt. Pleasant)	70	80	80	70	80	70
	Total	100	100	100	100	100	100

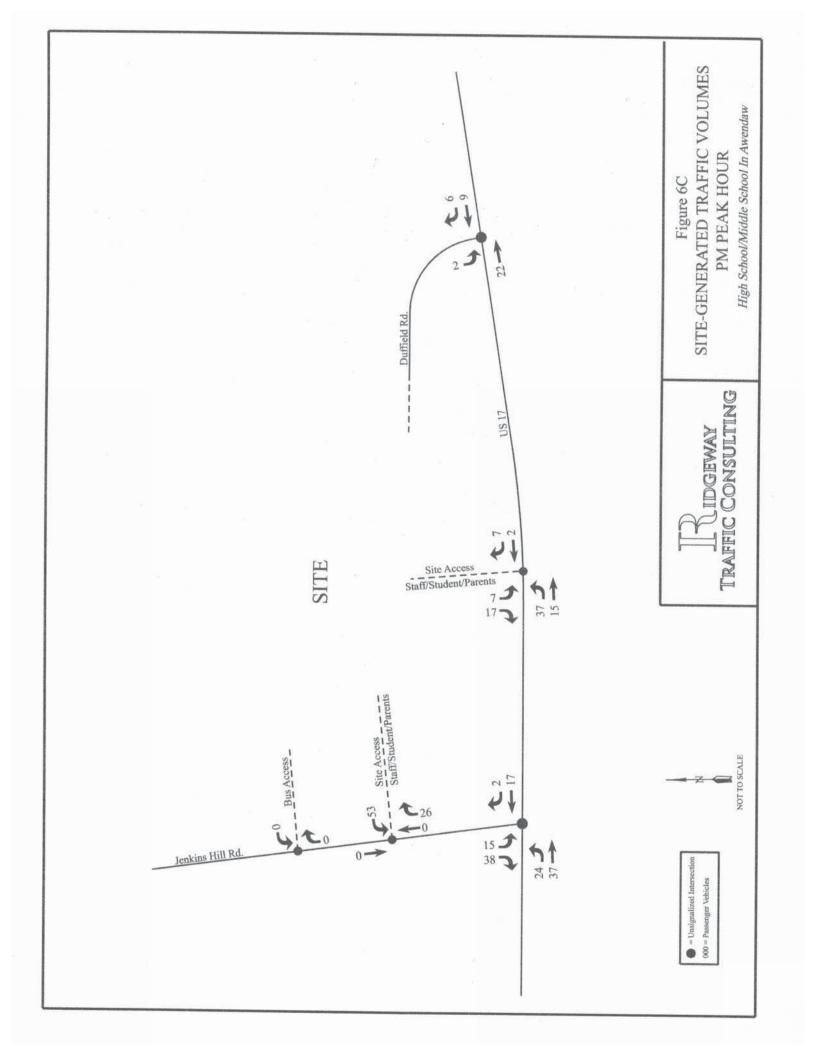
The site-generated traffic presented in Table 1 has been distributed within the study area roadway network as shown by the distribution pattern shown in Table 2. This has resulted in the site-generated specific volumes for the study area as depicted in **Figures 6A-6C**.

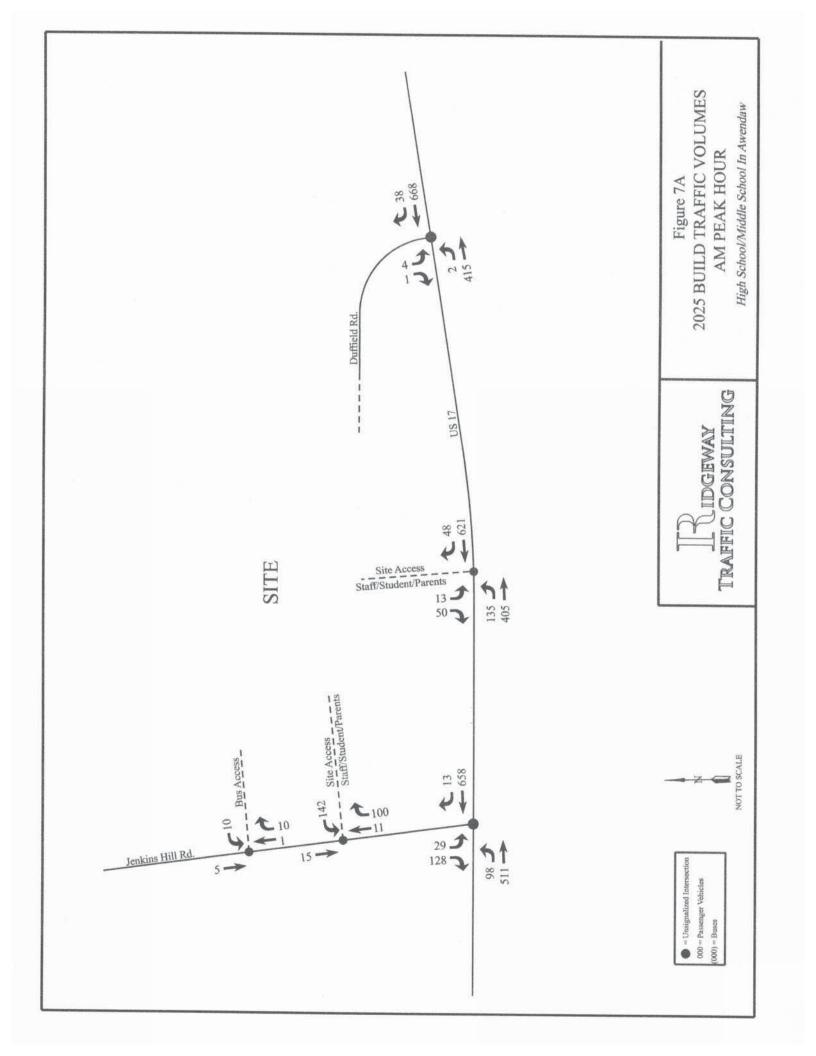
BUILD TRAFFIC VOLUMES

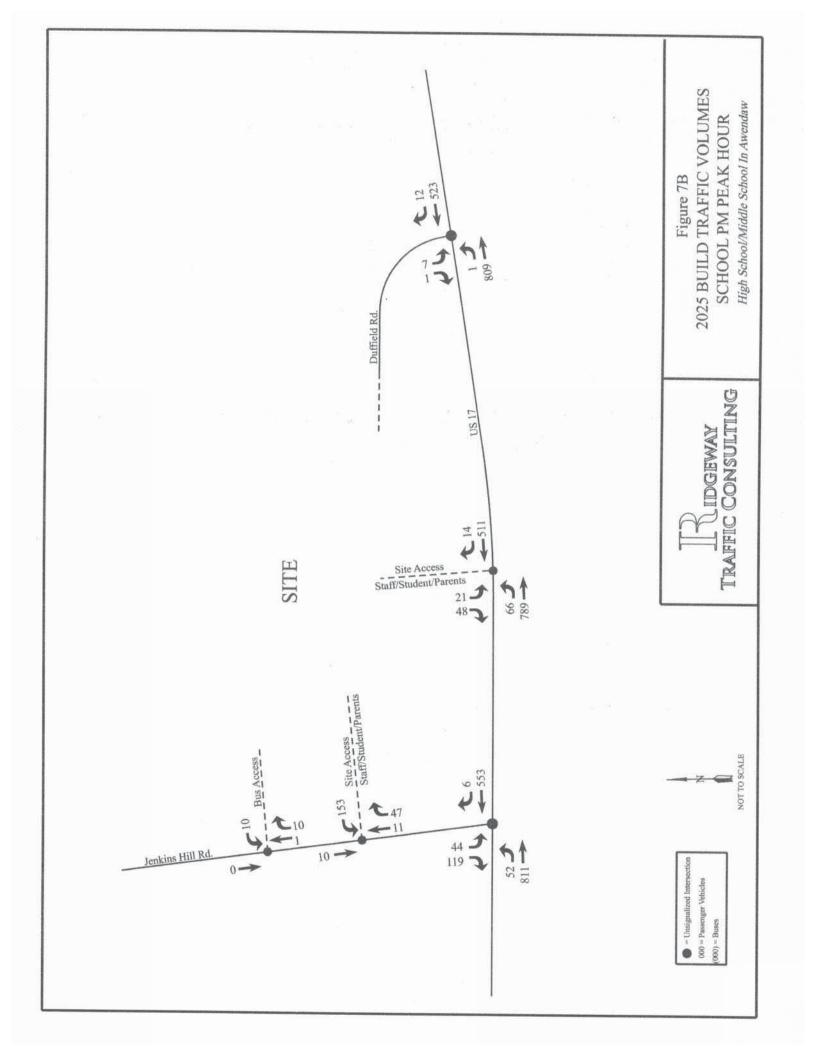
The site-generated traffic volumes shown in Figures 6A-6C have been added to the 2025 No-Build traffic volumes (Figures 5A-5C) to represent 2025 Build traffic volume conditions which are depicted graphically in **Figures 7A-7C.** These volumes were used as the basis for analysis to determine potential improvement measures necessary to mitigate traffic impacts caused by the project.

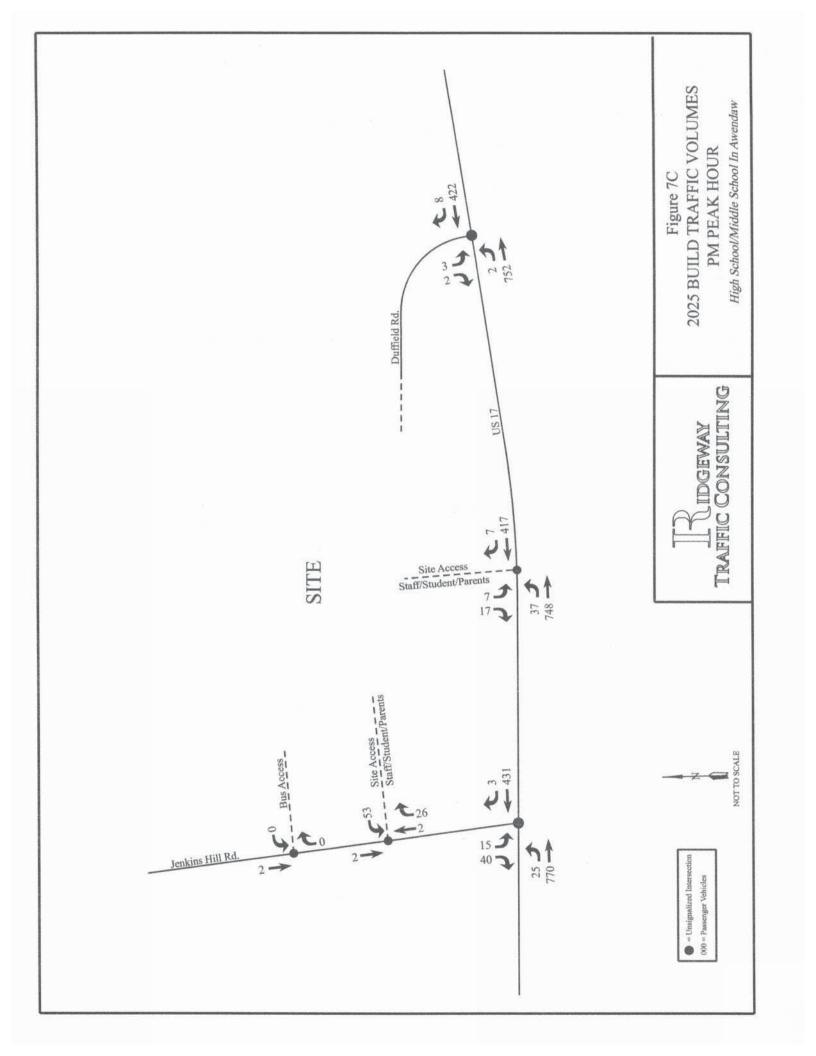












TRAFFIC OPERATIONS ANALYSIS

Measuring existing and future traffic volumes quantifies traffic flow within the study area. To assess quality of flow, capacity analyses were conducted under Existing, No-Build, and Build traffic volume conditions. Capacity analyses provide an indication of how well the study area intersections serve existing and future traffic demands.

METHODOLOGY

Level-of-Service

A primary result of capacity analyses is the assignment of level-of-service (LOS) to traffic facilities under various traffic flow conditions. The concept of level-of-service is defined as a qualitative measure describing operational conditions within a traffic stream and their perception by motorists and/or passengers. A level-of-service definition provides an index to quality of traffic flow in terms of such factors as speed, travel time, freedom to maneuver, traffic interruptions, comfort, convenience, and safety.

Six levels-of-service are defined for each type of facility. They are given letter designations from A to F, with LOS A representing the best operating conditions and LOS F the worst.

Since the level-of-service of a traffic facility is a function of the traffic flows placed upon it, such a facility may operate at a wide range of levels-of-service, depending on the time of day, day of week, or period of a year.

ANALYSIS RESULTS

Intersection analyses have been conducted for the study area intersections under Existing, and Future 2025 (No-Build & Build) conditions. The results of these analyses are shown in **Table 3.** The intersection analysis worksheets are contained in the Appendix at the end of this report.

Table 3
LEVEL-OF-SERVICE SUMMARY
High School/ Middle School In Awendaw

	Time	EXISTIN CONDI		FUTUR NO-B CONDI	UILD	I	URE 2025 BUILD IDITIONS
<u>Unsignalized Intersections</u>	Period	<u>Delay</u> ^a	LOS ^b	Delay	LOS	<u>Delay</u>	LOS
US 17 at Jenkins Hill Road	AM	10.8	В	11.6	В	20.0	C
	PM School	8.2	A	8.5	A	18.8	В
	PM	9.5	A	9.8	A	12.1	В
US 17 at Duffield Road	AM	10.1	В	10.7	В	13.8	В
	PM School	9.6	A	10.0	В	13.2	В
	PM	10.2	В	10.8	В	11.8	В
US 17 at Main School Access	AM					14.0	В
(Students, Staff, Parents)	PM School					12.9	В
	PM					11.1	В
Jenkins Hill Road at Site Access	AM					10.7	В
(Students, Staff, Parents)	PM School					10.3	В
	PM					9.0	A
Jenkins Hill Road at Bus Access	AM					8.7	A
	PM School					8.6	A
	PM					-	A

a. Delay in seconds-per-vehicle.

GENERAL NOTES:

1. For unsignalized intersections, Delay is representative of the critical movement.

As shown, under Existing conditions, analyses indicate good operations for both unsignalized intersections along US 17 on each side of the proposed school site. Volumes along US 17 are moderate during the peak hours, however STOP controlled movements are currently low at both intersections and acceptable gaps are available for side-street traffic.

Under 2025 No-Build conditions, which account for 4-percent annual background growth in traffic, operations are expected to remain similar to Existing conditions, with only slight increases in delay.

Analysis of 2025 Build Conditions indicate that acceptable service levels (LOS C or better) will be present within the study area. A drop in one service level is anticipated at the US 17 at Jenkins Hill Road during each peak hour, however no significant delays are projected. It should be noted that these service levels are projected based on existing geometry. Recommendations for this intersection based on SCDOT requirements adjacent to school sites are provided and analyzed in the next section of this report. The US 17 at Duffield Road intersection is expected to maintain LOS B as with No-Build Conditions.

The direct school access to US 17 is expected to operate well at LOS B during all peak hours with the incorporation of recommended geometry and traffic control detail in the next section of this report.

The direct site access drives to Jenkins Hill Road are expected to operate with low delays due to minimal conflicting traffic along Jenkins Hill Road. Recommendations for these two access points are detailed in the next section of this report.

b. LOS = Level-of-Service.

MITIGATION

The final phase of the analysis process is to identify mitigating measures which may either minimize the impact of the project on the transportation system or tend to alleviate poor service levels not caused by the project. Measures considered necessary to mitigate roadway system deficiencies are discussed below as they relate to the impacts of the proposed project.

PROPOSED SITE ACCESS

Access for the proposed campus is proposed via a direct access to US 17, two connections to Jenkins Hill Road (one for buses only) and a connection to Duffield Road to the east. Recommendations for each access drive are provided as follows:

<u>US 17 at Site Access</u>: This intersection will serve as a primary access for the campus serving parent drop-offs/pick-ups, student drivers and staff, etc. This access is proposed in the location of the existing Kaiser Farm Road, for which a median break exists within US 17. The following geometry is recommended for this intersection:

- **Eastbound (US 17) Approach:** The existing left-turn lane for this approach will need to be upgraded to provide for 250-ft of storage with 200-ft. of taper. The existing storage for this lane is approximately 200-ft. Final design should be coordinated with SCDOT and may require an offset design as the existing turn lane is a standard parallel design;
- Westbound (US 17) Approach: SCDOT standards call for a dedicated right-turn with 250-ft. of storage and 200-ft. of taper. Due to the driveway for a single-family home to the east, the storage and taper will need to be modified for the approximate 370-ft. of available frontage. One option would be a 170-ft lane with 200-ft. of taper as storage is not anticipated to be an issue; and
- Southbound (Site Access): Construct new access with one entering lane and two exiting lanes designated as a separate left-turn lane and separate right-turn lane. A minimum of 200-ft of storage is recommended for the right-turn lane. Place new approach under STOP sign control.

<u>Jenkins Hill Road at Southern Access</u>: This intersection will also serve as a primary access for the campus serving parent drop-offs/pick-ups, student drivers and staff, etc. This access is proposed approximately 450-ft. north of US 17, which is considered good separation. The following geometry is recommended for this intersection:

- *Northbound (Jenkins Hill Road) Approach:* A dedicated right-turn lane is recommended for this approach to separate traffic entering the school from bus traffic that will continue north;
- **Southbound (Jenkins Hill Road) Approach:** Movements from the north into the access are expected to be negligible and a dedicated left-turn lane is not recommended; and

• Westbound (Site Access): Construct new access with one entering lane and one exiting lane. Place new approach under STOP sign control.

Jenkins Hill Road at Northern Access (Buses): This intersection will service only bus traffic during school operations and is located approximately 400-ft. north the southern access, which is considered good separation. Based on the minimal conflicting volumes, single lane approaches are recommended for all approaches to this intersection. Turning radii should be designed for bus traffic. The westbound site access approach should be placed under STOP sign control.

<u>Duffield Road Connectivity</u>: The existing master plan calls for an extension of Duffield Road into the site. While this would provide an additional connection to US 17, the following should be noted:

- 1) While Duffield Road can be expected to service some school traffic oriented to/from the east, these movements could be accommodated at the other school access drives. Analyses for this option are presented later in this report.
- 2) While it would not be logical for school traffic oriented from Awendaw/Mount Pleasant to utilize this intersection, the eastbound left-turn movement would still be allowed, which may require a dedicated left-turn lane within the median of US 17, not based on traffic volumes, but based on safety due to the high-speed nature of US 17 in this area. If the connection to the school is provided, it is likely also that a westbound right-turn deceleration lane would be required.

Stacking

The conceptual plan for the school indicates approximately 4,000-feet of double-lane stacking, which exceeds SCDOT guidelines, and should be more than enough accommodate anticipated on-site stacking.

OFF-SITE IMPROVEMENTS

US 17 at Jenkins Hill Road

This intersection will be critical for school traffic as all bus traffic will utilize this intersection as well as significant entrances and exists for passenger vehicles. The following improvements are recommended for this intersection:

- **Eastbound (US 17) Approach:** The existing left-turn lane for this approach will need to be upgraded to provide for 250-ft of storage with 200-ft. of taper. The existing storage for this lane is approximately 210-ft. Final design should be coordinated with SCDOT and may require an offset design as the existing turn lane is a standard parallel design;
- Westbound (US 17) Approach: SCDOT standards call for a dedicated right-turn with 250-ft. of storage and 200-ft. of taper.
- Southbound (Jenkins Hill Road): Widen the southbound approach to provide for separate left and right-turn lanes. A minimum of 200-ft of storage is recommended for the right-turn lane. Maintain STOP sign control for the intersection.

Capacity analyses have been conducted to evaluate the proposed mitigation measures for the intersection of US 17 at Jenkins Hill Road and for the intersection of US 17 at the direct site access with the Duffield Road connection eliminated and volumes reassigned. The results of these analyses are shown in **Table 4**.

Table 4 MITIGATED LEVEL-OF-SERVICE SUMMARY High School/ Middle School In Awendaw

	Time	FUTUR NO-B CONDI	UILD	FUTUR BUI CONDI	LD	FUTUR BUI CONDI MITIG	LD TIONS
<u>Unsignalized Intersections</u>	<u>Period</u>	<u>Delay</u> ^a	LOSb	Delay	LOS	Delay	LOS
US 17 at Jenkins Hill Road	AM	11.6	В	20.0	C	15.0	C
	PM School	8.5	A	18.8	В	14.1	В
	PM	9.8	A	12.1	В	11.5	В
US 17 at Main School Access	AM			14.0	В	14.8	В
(Students, Staff, Parents)	PM School			12.9	В	13.6	В
	PM			11.1	В	11.3	В

a. Delay in seconds-per-vehicle.

GENERAL NOTES:

1. For unsignalized intersections, Delay is representative of the critical movement.

As shown, the proposed turn-lane improvements for the US 17 at Jenkins Hill Road will have a positive impact on the intersection. Analysis also indicate that the US 17 at site access intersection could accommodate additional volumes that were assigned to the Duffield Road connection without significant increases in delay.

CONCLUSIONS

The traffic study has been prepared to evaluate the traffic impacts and access needs for a combined high school/middle school campus along the north side of US 17 in the proximity of Kaiser Farm Road in rural Charleston County near Awendaw, South Carolina. The school is being planned for 500 middle school students and 500 high school students. A horizon year of 2025 has been reviewed for this report.

Access for the school is currently proposed via a main entrance for students, staff and parent drop-offs/pick-ups to US 17 in the current location Kaiser Farm Road where an existing median break is provided. A second entrance for students, staff and parent drop-offs will be provided to Jenkins Hill Road. The bus loop will be serviced via a separate connection to Jenkins Hill Road. Connectivity to the east to Duffield Road is also proposed.

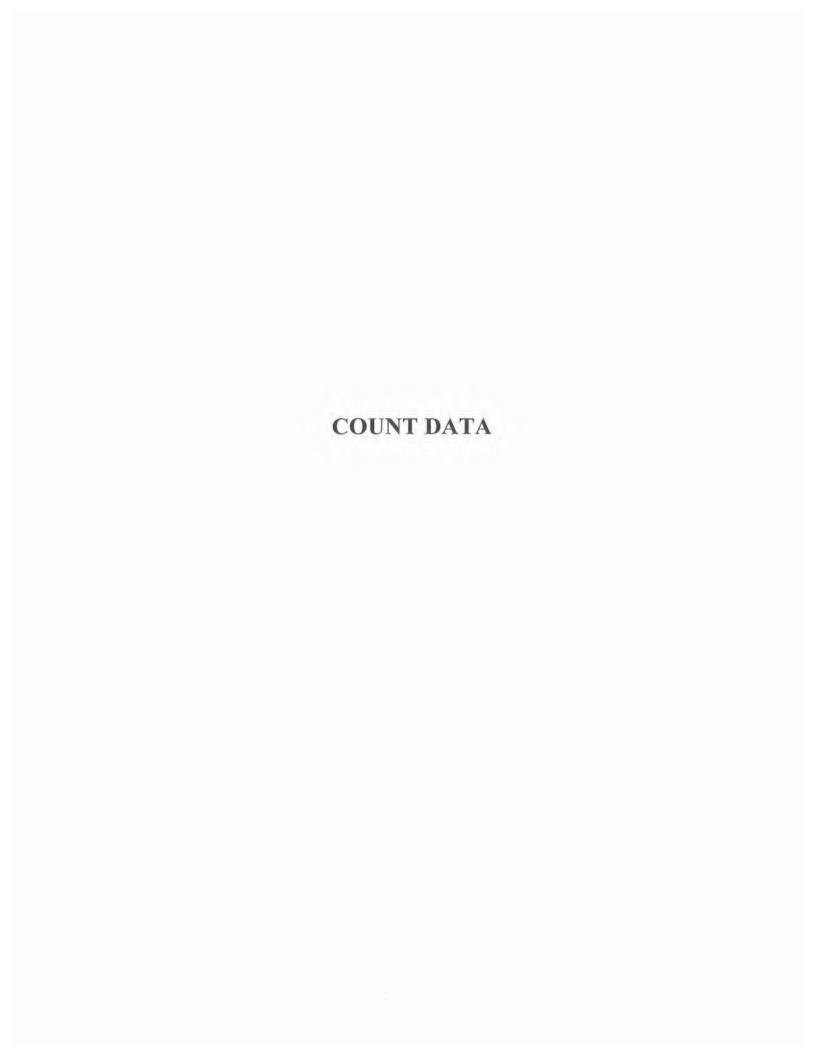
Turn lane improvements have been recommended for the main intersection to US 17 and the intersection of US 17 at Jenkins Hill Road that will minimize impacts on US 17 through volumes and provide for good traffic operations. Conflicting traffic volumes along Jenkins Hill Road are expected to be minimal although a right-turn lane is recommended at the southern access to separate passenger vehicles and buses that will continue north.

While the proposed extension of Duffield Road into the site would service some traffic oriented to/from the east (McClellanville), analyses indicate that the site can function acceptably without this connection. If this connection is provided, there may be improvements required for the US 17 at Duffield Road intersection as there is currently not a deceleration lane for US 17 in either direction.

b. LOS = Level-of-Service.

APPENDIX

- Count Data
- Capacity Analyses



S HO RT CO UNTS, LLC
735 Maryland St
Columbia, SC 29201 We can't say we're the Best, but you Can!

File Name: US 17 @ Jenkins Hill Rd Site Code: 00092619

Start Date : 09/26/2019

Groupe Drintad	Daccongor	Valsialac	LLagran	Walialas	Disease

		Jenkins l Southb			TOUPS TT	US Westb			ileavy v	Northb	ound			US Eastbo			
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Int. Total
07:00	0	0	1	0	0	124	1	0	0	0	0	0	0	66	0	1	193
07:15	0	0	2	0	0	141	0	0	0	0	0	0	0	78	0	0	221
07:30	0	0	1	0	0	145	0	0	0	0	0	0	0	73	0	0	219
07.45	1	0	0	0	0	126	0	0	0	0	0	0	0	70	1	0	198
Total	1	0	4	0	0	536	1	0	0	0	0	0	.0	287	1	1	831
08:00	0	0	0	0	0	131	0	0	0	0	0	0	1	63	0	0	193
08:15	0	0	0	0	0	110	0	0	0	0	0	0	0	68	0	0	178
08:30	0	0	2	0	0	113	0	0	0	0	0	0	0	73	0	0	18
08:45	0	0	0	0	0	105	0	0	0	0	0	0	1	62	0	0	168
Total	0	0	2	0	0	459	0	0	0	0	0	0	2	266	0	0	729
14.00		0		61		-0		-1				51					
14:00 14:15	1	0	0	0	0	79	1	0	0	0	0	0	0	128	0	1	210
14:15	0	0	0	0	0	91	0	0	0	0	0	0	0	121	0	0	213
14:45	0	0	0	100000		118	0	0	0	0	0	0	2	146	1	0	26
Total	2	0	0	0	0	90 378	1	0	0	0	0	0		152	0	0	24
	2	0	0	0.1	0	5/8	2	0	0	0	0	0	3	547	1	1	93
15:00	0	0	0	0	0	107	0	0	0	0	0	0	1	148	0	0	25
15 15	0	0	0	0	0	105	0	0	0	0	0	0	0	141	0	0	24
15.30	0	0	0	0	0	111	0	0	0	0	0	0	0	140	0	0	25
15:45	0	0	0	0	0	84	0	0	0	0	0	0	0	170	0	0	25
Total	0	0	0	0	0	407	0	0	.0	0	0	0)	- 1	599	0	0	100
16:00	0	0	1	0.	0	91	0	0	0	0	0	0	0	151	0	0	24
16:15	0	0	1	0	0	98	0	0	0	0	0	0	1	176	0	0	27
16:30	0	0	0	0	0	69	0	0	0	0	0	0	0	142	0	0	21
16:45	0	0	.0	0	0	76	1	0	0	-0	0	0	0	122	0	0	19
Total	0	0	2	0	0	334	1	0	0	0	0	0	1	591	0	0	92
17:00	0	0	2	0	0	91	1	0	0	0	()	0	0	140	0	0	23
17:15	1	0	1	0	0	87	0	0	0	0	0	0	0	134	0	0	22
17:30	0	0	0	0	0	63	1	0	0	0	0	0	0	123	0	0	18
17:45	0	0	0	0	0	85	-1-	0	0	0	0	0	0	118	0	0	20
Total	1	0	3	0	0	326	3	0	0	0	0	0	0	515	0	0	84
Grand Total	4	0	-11	0	0	2440	7	0	0	0	0	0	7	2805	2	2	527
Apprch %	26.7	0	73.3	0	0	997	0.3	0	0	0	0	0	0.2	99.6	0.1	0.1	1
Total %	0.1	0	0.2	0	0	46.2	0.1	0	0	- 0	0	0	0.1	53.1	0	0	
Passenger Vehicles	4	0	11	0	0	2316	7	0	0	0	0	0	7	2654	1	2	500
% Passenger Vehicles	100	0	100	0	0	94.9	100	0	0	0	0	0	100	94.6	50	100	94.
Heavy Vehicles	0	0	0	0	0	100	0	0	0	0	0	0	0	131	1	0	23
% Heavy Vehicles	0	0	0	0	0	4.1	0	0	0	0	0	0	0	4.7	50	0	4.
Buses	0	0	0	0	0	24	0	0	0	0	0	0	0	20	0	0	4
% Buses	0	0	0	0	0	1	0	0	0	0	0	0	0	0.7	0	0	0.3

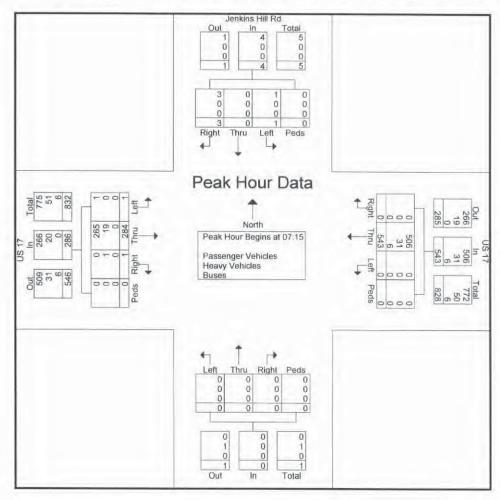
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We can't say we're the Best, but you Can!

File Name: US 17 @ Jenkins Hill Rd

Site Code : 00092619 Start Date : 09/26/2019

		1, 4, 6, 6,	cins Hil uthbou				W	US 17 estbou				N	orthbo	ind			F	US 17			
Start Time	Left	Thru	Right	Peds	App Total	Left	Thru	-	Peds	App Total	Left	Thru	Right	-	App Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Ana	alysis Fr	om 07:	00 to 0	8:45 -	Peak 1 of	1									Total Transit		11100	1	1	1 riple ream	T on Total
Peak Hour for	Entire I	ntersec	tion Be	gins at	07:15																
07:15	0	0	2	0	2	0	141	0	0	141	0	0	0	0	0	0	78	0	0	78	221
07:30	0	0	1	0	1	0	145	0	0	145	0	0	0	0	0	0	73	0	0	73	219
07:45	1	0	0	0	1	0	126	0	0	126	0	0	0	0	0	0	70	1	0	71	198
08:00	0	0	0	0	0	0	131	0	0	131	0	0	0	0	0	1	63	0	0	64	195
Total Volume	1	0	3	0	4	0	543	0	0	543	0	0	0	0	0	1	284	1	0	286	
% App. Total	25	0	75	0		0	100	0	0		0	0	0	0		0.3	99.3	0.3	0		
PHF	.250	.000	.375	.000	.500	.000	.936	000	.000	.936	.000	.000	.000	.000	000	.250	.910	.250	.000	.917	.942
Passenger Vehicles	P	n	3	0	4	0	506	0	.0	506	.0	0	0	0	ů.	j.	265	0	0	266	776
Heavy Vehicles	0	0	0	0	0	0	31	0	0	31	0	0	0	0	0	0	19	1	0	20	51
% Heavy Vehicles	0	0	0	0	0	0	5.7	0	0	5.7	0	0	0	0	0	0	6.7	100	0	7.0	
Buses	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	6
% Buses	0	0	0	0	0	0	1.1	0	0	1.1	0	0	0	0	0	0	0	0	0	0	0.7



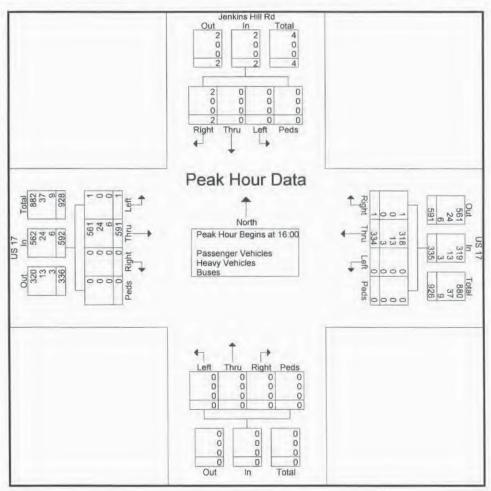
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File Name: US 17 @ Jenkins Hill Rd

Site Code : 00092619 Start Date : 09/26/2019

			cins Hil uthbou				W	US 17 Vestbou				N	orthbo	und			Е	US 17			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App Total	Left	Thru	Right	Peds	App Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Ana	alysis Fi	rom 16	00 to 1	7:45 - 1	Peak 1 of	1															
Peak Hour for	Entire I	ntersec	tion Be	gins at	16:00																
16:00	0	0	1	0	1	0	91	0	0	91	0	0	0	0	0	0	151	0	0	151	243
16:15	0	0	1	0	1	0	98	0	0	98	0	0	0	0	0	1	176	0	0	177	276
16:30	0	0	0	0	0	0	69	0	0	69	0	0	0	0	0	0	142	0	0	142	211
16:45	0	0	0	0	0	0	76	1	0	77	0	0	0	0	0	0	122	0	0	122	199
Total Volume	0	0	2	0	2	0	334	1	0	335	0	0	0	0	0	1	591	0	0	592	929
% App. Total	0	0	100	0		0	99.7	0.3	0		0	0	0	0		0.2	99.8	0	0		
PHF	.000	.000	.500	.000	.500	.000	.852	.250	.000	.855	.000	.000	.000	.000	.000	.250	.839	.000	.000	.836	.841
Passenger Vehicles *** Passenger Vehicles	0.	0	-2	0	2	0	318	1	0	319	0	0	0	0	0	1	561	0	.0	362	883
Heavy Vehicles	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	0	24	0	0	24	37
As Heavy Vehicles	0	0	0	0	0	0	3.9	0	0	3.9	0	0	0	0	0	0	4.1	0	0	4.1	4.0
Buses	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	6	0	0	6	9
% Buses	0	0	0	0	0	0	0.9	0	0	0.9	0	0	0	0	0	0	1.0	0	0	1.0	1.0



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We can't say we're the Best, but you Can!

File Name: US 17 @ Duffield Rd

Site Code :

Start Date : 09/19/2019

Page No :1

Groups Printed- Passenger Vehicles - Heavy Vehicles - Buses

		Duffie			очрот	US Westb	17	CI VOITICE	03-1100	Northk		4363		US Eastb			
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Int. Total
07:00	0	0	1	0	0	113	0	0	0	0	0	0	0	63	0	0	177
07:15	0	0	0	0	0	139	0	0	0	0	0	0	1	76	0	0	216
07:30	0	0	0	0	0	140	0	0	0	0	0	0	o	72	0	0	212
07:45	0	0	0	0	0	131	0	0	0	0	0	0	1	91	1	0	224
Total	0	0	1	0	0	523	0	0	0	0	0	0	2	302	1	0	829
08:00	0	0	0	0	0	116	0	0	0	0	1	0	0	60	0	0	177
08:15	0	0	0	0	0	103	0	0	0	0	0	0	0	67	0	0	170
08:30	0	0	1	1	0	113	0	0	0	0	0	0	0	72	0	0	187
08:45	0	0	1	0	0	107	0	0	0	0	0	0	0	64	0	0	172
Total	0	0	2	1	0	439	0	0	0	0	1	0	0	263	0	0	706
14:00	0	0	2	0	0	82	1	0	0	0	0	0	1	130	0	0	216
14:15	0	0	0	0	0	92	0	0	0	0	0	0	0	122	0	0	214
14:30	1	0	1	0	0	114	2	0	0	0	0	0	2	145	0	0	265
14:45	1	0	0	0	0	94	0	0	0	0	0	0	1	151	0	0	247
Total	2	0	3	0	0	382	3	0	0	0	0	0	4	548	0	0	942
15:00	0	0	0	0	0	109	0	0	0	0	0	0	0	150	0	0	259
15:15	0	0	0	0	0	104	0	0	0	0	0	0	0	136	1	0	241
15:30	0	0	0	0	0	107	1	0	0	0	0	0	1	139	Ö	0	248
15.45	0	0	1	0	0	80	Ö	0	0	0	0	0	Ó	175	0	0	256
Total	0	0	1	0	0	400	1	0	0	0	0	0	1	600	1	0	
16:00	0	0	1	0	0	94	1	0	0	0	0	0	0	150	0	0	246
16:15	0	0	o	0	0	93	0	0	0	0	0	0	2	177	0	0	272
16:30	1	0	1	0	0	74	1	0	0	0	1	0	0	134	0	0	212
16:45	0	0	0	0	0	71	0	0	0	0	0	0	0	120			
Total	1	0	2	0	0	332	2	0	0	0	1	0	2	581	0	0	191 921
17:00	0	0	0	0	0	96	1	0	0	0	0	0	0	440	0	0	0.40
17:15	0	0	1	0	0	81	0	0	0	0	0	0	0	146	0	0	243
17:30	0	0	2	0	0	70	0	0	0	0				135	0	0	217
17:45	0	0	0			77					0	0	1	120	0	0	193
Total	0	0	3	0	0	324	1	0	0	0	0	0	0	118 519	0	0	195
			40	21						-							
Grand Total	3	0	12	1	0	2400	7	0	0	0	2	0	10	2813	2	0	5250
Apprch %	18.8	0	75	6.2	0	99.7	0.3	0	0	0	100	0	0.4	99.6	0.1	0	
Total %	0.1	0	0.2	0	0	45.7	0.1	0	0	0	0	0	0.2	53.6	0	0	
Passenger Vehicles	3	0	12	1	0	2210	6	0	0	0	2	0	10	2612	2	0	4858
% Passenger Vehicles	100	0	100	100	0	92.1	85.7	0	0	0	100	0	100	92.9	100	0	92.5
Heavy Vehicles	0	0	0	0	0	166	1	0	0	0	0	0	0	180	0	0	347
% Heavy Vehicles	0	0	0	0	0	6.9	14.3	0	0	0	0	0	0	6.4	0	0	6.6
Buses	0	0	0	0	0	24	0	0	0	0	0	0	0	21	0	0	45
% Buses	0	0	0	0	0	1	0	0	0	0	0	0	0	0.7	0	0	0.9

S HORT COUNTS, LLC 735 Maryland St

Columbia, SC 29201

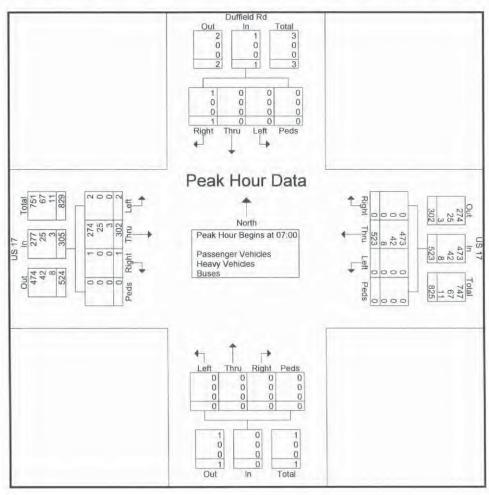
We can't say we're the Best, but you Can!

File Name: US 17 @ Duffield Rd

Site Code :

Start Date : 09/19/2019

			uffield outhbo				V	US 17 /estboo				N	orthbo	und			E	US 17			
Start Time	Left	Thru	Right	Peds	App Total	Left	Thru	Right	Peds	App Total	Left	Thru	Right	Peds	App Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Ar	alysis	From	07:00 t	0 08:4	5 - Peak	1 of 1															
Peak Hour for																					
07:00	0	0	1	0	1	0	113	0	0	113	0	0	0	0	0	0	63	0	0	63	177
07:15	0	0	0	0	0	0	139	0	0	139	0	0	0	0	0	1	76	0	0	77	216
07:30	0	0	0	0	0	0	140	0	0	140	0	0	0	0	0	0	72	0	0	72	212
07:45	0	0	0	0	0	0	131	0	0	131	0	0	0	0	0	1	91	1	0	93	224
Total Volume	0	0	1	0	1	0	523	0	0	523	0	0	0	0	0	2	302	1	0	305	829
% App. Total	0	0	100	0		0	100	0	0		0	0	0	0		0.7	99	0.3	0		1000
PHF	.000	.000	.250	.000	.250	.000	.934	.000	.000	.934	.000	.000	.000	.000	.000	.500	.830	.250	.000	.820	.925
Passenger Vehicles % Passenger Vehicles	.0	0	3	0	1	0	473	D	0	473	0	0	0	D	0	2	274	1	0	277	751
Heavy Vehicles	0	0	0	0	0	0	42	0	0	42	0	0	0	0	0	0	25	0	0	25	67
% Heavy Vehicles	0	0	0	0	0	0	8.0	0	0	8.0	0	0	0	0	0	0	8.3	0	0	8.2	8.1
Buses	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	3	0	0	3	11
% Buses	0	0	0	0	0	0	1.5	0	0	1.5	0	0	0	0	0	0	1.0	0	0	1.0	1.3



S HO RT COUNTS, LLC 735 Maryland St Columbia, SC 29201

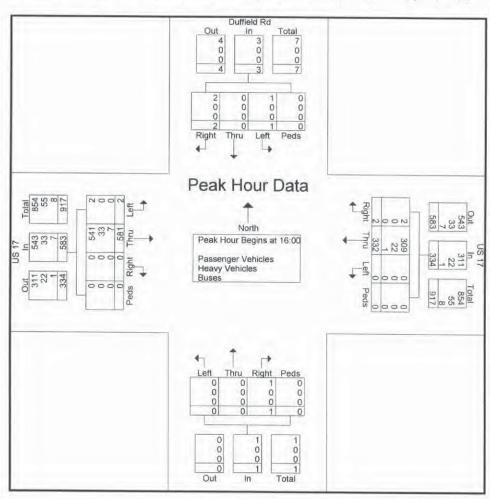
We can't say we're the Best, but you Can!

File Name: US 17 @ Duffield Rd

Site Code :

Start Date : 09/19/2019

			uffield outhbo				V	US 17				N	orthbo	und			F	US 17			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App Total	Left	Thru	Right	Peds	App Total	Left	Thru	Right	Peds	App Total	Int. Tota
Peak Hour Ar	alysis	From '	16:00 t	0 17:45	- Peak	1 of 1							-	1, -10	Top (oral	Lon	11110	ragin	1 000	App Total	Int. Tota
Peak Hour for	Entire	Inters	ection	Begins	at 16:0	0															
16:00	0	0	1	0	1	0	94	1	0	95	0	0	0	0	0	0	150	0	0	150	246
16:15	0	0	0	0	0	0	93	0	0	93	0	0	0	0	0	2	177	0	0	179	272
16:30	1	0	1	0	2	0	74	1	0	75	0	0	1	0	1	0	134	0	0	134	212
16:45	0	0	0	0	0	0	71	0	0	71	0	0	0	0	0	0	120	0	0	120	191
Total Volume	1	0	2	0	3	0	332	2	0	334	0	0	1	0	1	2	581	0	0	583	921
% App. Total	33.3	0	66.7	0		0	99.4	0.6	0	44.1	0	0	100	0		0.3	99.7	0	0	303	921
PHF	250	.000	.500	.000	.375	.000	.883	.500	.000	.879	.000	.000	250	.000	.250	.250	.821	.000	.000	.814	.847
Passenger Vehicles % Passenger Vehicles	1	0	2	0	3	0	309	2	0	311	0	0	1	0	1	2	541	0	0	543	858
Heavy Vehicles	0	0	0	0	0	0	22	0	0	22	0	0	0	0	0	0	33	0	0	33	55
% Heavy Vehicles	0	0	0	0	0	0	6.6	0	0	6.6	0	0	0	0	0	0	5.7	0	0	5.7	6.0
Buses	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	7	0	0	7	8
% Buses	0	0	0	0	0	0	0.3	0	0	0.3	0	0	0	0	0	0	12	0	0	1.2	0.9





Intersection				Q ₂ 74		
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	7	44	†		W	
Traffic Vol, veh/h	1	303	543	0	1	3
Future Vol, veh/h	1	303	543	0	1	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None		None		The second second
Storage Length	200	-	-		0	-
Veh in Median Storage,		0	0		2	
Grade, %		0	0	4	0	-
Peak Hour Factor	92	92	92	92	92	92
	2	2	2			
Heavy Vehicles, %	1			2	2	2
Mvmt Flow		329	590	0	1	3
Major/Minor N	lajor1		Major2		Vinor2	
Conflicting Flow All	590	0	-	0	757	295
Stage 1	-		4		590	
Stage 2	-		-		167	-
Critical Hdwy	4.14	1		-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	- 2	esta 🖫			5.84	
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	982	-		-	344	701
Stage 1	-	-	-	-	517	-
Stage 2					845	
Platoon blocked, %			-		UTU	
Mov Cap-1 Maneuver	982		-	-	344	701
Mov Cap-1 Maneuver					476	701
	-	-	-			
Stage 1					516	
Stage 2	-	-	-	•	845	-
Contraction of the Contraction o						
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		10.8	
HCM LOS			9		В	
					,	
66						
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		982		- 125	-	627
HCM Lane V/C Ratio		0.001	-	-	-	0.007
HCM Control Delay (s)		8.7	-		-	10.8
HCM Lane LOS	in hearth	Α	-		-	В
HCM 95th %tile Q(veh)		0	-			0

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	Millioubirshariik	414	† †		14	
Traffic Vol., veh/h	2	302	542	0	0	1
Future Vol, veh/h	2	302	542	0	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	1100	None	-	CONTRACTOR OF THE PARTY OF	otop *	AND DESCRIPTION OF THE PARTY OF
Storage Length		140110	-	140110	0	110116
Veh in Median Storage,	# -	0	0		2	
	# -	0	0		Section of the Party	
Grade, %				- 00	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	2	328	589	0	0	1
Major/Minor N	lajor1	1	Major2	1	Ainor2	
Conflicting Flow All	589	0	-	0	757	295
Stage 1	-				589	
Stage 2	-		-	-	168	-
Critical Hdwy	4.14				6.84	6.94
Critical Hdwy Stg 1	14	-	-	-	5.84	-
Critical Hdwy Stg 2	73.34		-		5.84	
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	982		14	-	344	701
Stage 1	-	-	-	-	517	-
Stage 2	-			-	844	
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	982	-	- :	9	343	701
Mov Cap-2 Maneuver	-			-	476	-
Stage 1	755	4-			516	_
Stage 2	_	-		-	844	
Olago Z					דדט	
	- Committee			NAME OF TAXABLE PARTY.		
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		10.1	
HCM LOS					В	
Minor Lane/Major Mymi	discours	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		982				701
HCM Lane V/C Ratio		0.002	-	-		0.002
HCM Control Delay (s)	135	8.7	0	1872 -		10.1
HCM Lane LOS		A	A	-	-	В
HCM 95th %tile Q(veh)		0				0
, ion ovar rono sq von)		U				J

Intersection				14. 31.10	10.25	
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	3	44	† \$		W	
Traffic Vol, veh/h	1	601	407	0	0	0
Future Vol, veh/h	1	601	407	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-			None	-	
Storage Length	200	-	-	-	0	-
Veh in Median Storage,		0	0		2	
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	1	653	442	0	0	0
MATHERION	- 1	000	774	U	V	U
to all hor	(-10-4				M	
	lajor1		Major2		Minor2	2-1
Conflicting Flow All	442	0		0	771	221
Stage 1		14 -		-	442	
Stage 2	-	÷	-	-	329	-
Critical Hdwy	4.14	_			6.84	6.94
Critical Hdwy Stg 1	-	•	-	-	5.84	-
Critical Hdwy Stg 2	0.00	-			5.84	0.00
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
	1114	S. 155 -	*		337	783
Stage 1	-	-		-	615	
Stage 2		research		-	701	11 JE
Platoon blocked, %		-				
The production of the control of the	1114	•	•	- 1	337	783
Mov Cap-2 Maneuver	-/	-	-	-	517	-
Stage 1		+	•	-	614	-
Stage 2	1	-	1	-	701	-
Approach	EB		WB	15.37	SB	
HCM Control Delay, s	0	5.5	0		0	
HCM LOS					Α	
Minor Lane/Major Mymt		EBL	EBT	WBT	WBR:	SBLn1
Capacity (veh/h)		1114				
HCM Lane V/C Ratio		0.001	-	_	_	-
HCM Control Delay (s)	5,750	8.2	-			0
HCM Lane LOS		A	-	-	_	A
HCM 95th %tile Q(veh)	A	0				
The seas to the sequenty		9				

Intersection			9			1,1-1,1	
Int Delay, s/veh	0						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		44	朴		M		
Traffic Vol, veh/h	1	600	406	0 1	0	1	
Future Vol, veh/h	1	600	406	1	0	1	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	4	None		None	
Storage Length	-	-	-	-	0	-	
Veh in Median Storage	# -	0	0		2	3.4	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	. 1	652	441	1	0	1	
Major/Minor	/ajor1		Major2	1	vinor2	200 and F	
Conflicting Flow All	442	0	sicilor r	0	770	221	
Stage 1	442	U	-	-	442	221	
Stage 2	-	-	-	-	328		
Critical Hdwy	4.14				6.84	6.94	THE WELL
Critical Hdwy Stg 1	-		-	-	5.84	0.04	
Critical Hdwy Stg 2	-			1000 E	5.84		- 12
Follow-up Hdwy	2.22		-	-	3.52	3.32	
Pot Cap-1 Maneuver	1114	2	-		337	783	1.50
Stage 1	-	-	-	-	615	-	
Stage 2	-				702		
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	1114	-			337	783	
Mov Cap-2 Maneuver	-	-	-	-	518	-	
Stage 1	- 1	-			614	-	
Stage 2	-	-	-	-	702	-	
WILLIAM STATE						-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -	
Approach	EB		WB		SB		
HCM Control Delay, s	0		0		9.6		
HCM LOS					Α		
Minor Lane/Major Mvm	t in	EBL	EBT	WBT	WBR	SBLn1	
Capacity (veh/h)		1114				783	
HCM Lane V/C Ratio		0.001	-	-	-	0.001	
HCM Control Delay (s)		8.2	0	-			
HCM Lane LOS		Α	А		-	Α	
HCM 95th %tile Q(veh)		0				0	

Intersection	W					
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	7	^	朴		M	
Traffic Vol, veh/h	1	591	334	1	0	2
Future Vol, veh/h	1	591	334	1	0	2
Conflicting Peds, #/hr	_ 0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	0	110110		None	0	.,
Storage Length Veh in Median Storage,	and the same of the same	0	0		0 2	
ven in Median Storage, Grade, %	# -	0	0	-	0	
Peak Hour Factor	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	1	704	398	1	0	2
		.91	500		y .	
Major/Minor N	lajort	6.3	Major2	2000	Minor2	
Conflicting Flow All	399	0	viajuiz	0	753	200
Stage 1	333	0		0	399	200
Stage 2		-	-		354	-
Critical Hdwy	4.14			-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-120,0	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	1156				346	808
Stage 1		-	-	-	647	14
Stage 2					681	
Platoon blocked, %	4455	-	-		646	000
Mov Cap-1 Maneuver	1156	-	-	-	346	808
Mov Cap-2 Maneuver	-	-	-	-	528	-
Stage 1	-			•	646 681	
Stage 2	-	-	7	-	001	-
				1000		
Approach	EB		WB	of the state of th	SB	
HCM Control Delay, s	0		0		9.5	
HCM LOS					Α	
Minor Lane/Major Mvm		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	45, 3	1156	-	4		808
HCM Lane V/C Ratio		0.001	-	-	-	0.003
HCM Control Delay (s)	g-1 - 1	8.1	- •		•	9.5
HCM Lane LOS		Α	-	-	-	Α
HCM 95th %tile Q(veh)	S of E	0			j	0

Synchro 10 Report Page 1 Baseline

Intersection	3 -45					
Int Delay, s/veh	0					
	CDI	FOT	AMERIC	WIDD	COL	con
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	0	414	† †	0	A	•
Traffic Vol, veh/h	2		333	2	1	2
Future Vol, veh/h	2		333	2	1	2
Conflicting Peds, #/hr	0		0	0	0	0
	Free	and the latest and th	Free	Free	Stop	Stop
RT Channelized	17 	None		None		None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	2	
Grade, %	-	0	0	-	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	2		2	2	2	2
Mvmt Flow	2		392	2	1	2
TOTAL LAND	-	000	002	-		_
	lajor1		Major2		Vinor2	Marilla Marilla
Conflicting Flow All	394	0	-	0	744	197
Stage 1		- 4		-	393	7 3 5 4 4
Stage 2	-	- 4	-	-	351	-
Critical Hdwy	4.14		-		6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2		0 5	-		5.84	
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
	1161			_	350	811
Stage 1	-		-		651	-
Stage 2	E*1				684	
Platoon blocked, %	4404	-	-	-	040	044
The control of the co	1161	•	-	-	349	811
Mov Cap-2 Maneuver	-	-		-	531	-
Stage 1	-	- 9	-		649	
Stage 2	-	-	-	-	684	-
Approach	EB		WB	7 - 35	SB	
HCM Control Delay, s	0		0		10.2	Esta
HCM LOS	U		U			
HCW LOS					В	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR !	SBLn1
Capacity (veh/h)		1161				690
HCM Lane V/C Ratio		0.002	-	-	-	0.005
HCM Control Delay (s)		8.1	0			
HCM Lane LOS		A	A	-	_	В
		A CONTRACTOR OF THE PARTY OF TH				
HCM 95th %tile Q(veh)		0	-			0

ntersection					17 25			
nt Delay, s/veh	0.1							
Movement	EBL	EBT	WBT	WBR	SBL	SBR		
Lane Configurations	4	*	1		M			
Traffic Vol, veh/h	1	303	543	0	1	3		
Future Vol, veh/h	1	303	543	0	1	3		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	and the Control State Control and Additional		None		The second district of the second		
Storage Length	200	-		-	0	-		
Veh in Median Storage,		0	0	-11	2			
Grade, %	-	0	0	-	0	-		
Peak Hour Factor	92	92	92	92	92	92		
Heavy Vehicles, %	2	2	2	2	2	2		Section Communities Section Se
Mymt Flow	1	408	732	0	1	4		
WINDER IOW		700	102	U	-1	7		
Major/Minor N	lajor1		Major2	1	Ainor2			
Conflicting Flow All	732	0		0	938	366		
Stage 1					732			
Stage 2		-		1-	206	-	•	
Critical Hdwy	4.14	-			6.84	6.94		
Critical Hdwy Stg 1	-	-	-	-	5.84	-		
Critical Hdwy Stg 2		100			5.84			
Follow-up Hdwy	2.22	-	-	-	3.52	3.32		
Pot Cap-1 Maneuver	868	-		-	263	631		
Stage 1	-	-	-	-	437	- 2		
Stage 2		_			808			
Platoon blocked, %		-	-	1-	000			
Mov Cap-1 Maneuver	868	-			263	631		
Mov Cap-2 Maneuver	-	-	_	_	403	-		
Stage 1					437	-		
Stage 2					808	-		
Olago z					000			
Approach	E8		WB		SB		and the state of the state of	
HCM Control Delay, s	0		0		11.6			
HCM LOS					В			
Minor Lane/Major Mymt	, mar	EBL	EBT	WBT	WBR	SBI n1	W. Janka Karasa	
Capacity (veh/h)		868			11011	553		
HCM Lane V/C Ratio		0.002	-	-	-	0.01		
HCM Control Delay (s)		9.2				11.6		
HCM Lane LOS					•			
	-11	A	-	-	-	В		
HCM 95th %tile Q(veh)		0	-7.4		•	0	Aprile Commence	

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		414	44		W	
Traffic Vol, veh/h	2	302	542	0	0	-1
Future Vol, veh/h	2	302	542	0	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized		None	-	None		None
Storage Length		-	-	-	0	1.4
Veh in Median Storage,	# -	0	0	+	2	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	3	407	731	0	0	- 1
Major/Minor M	lajor1		Aajor2		Ainor2	
Conflicting Flow All	731	0	-	0	941	366
Stage 1		-		-	731	
Stage 2		-		-	210	-
Critical Hdwy	4.14				6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	70.5		-	-	5.84	- 2
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	869	1000	-		262	631
Stage 1	-	-	-	-	437	-
Stage 2	-	1000	-	1	805	-
Platoon blocked, %		_	-	_		
Mov Cap-1 Maneuver	869			-	261	631
Mov Cap-2 Maneuver	-	-	-	-	401	-
Stage 1	-		-	-	435	
Stage 2	-	-	-	-	805	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		10.7	
HCM LOS	U.1		U		В	
TION LOO					Ь	93933
Minor Lane/Major Mvmt		EBL	EBT	WBT	Winn	001 A
Charles Committee Committe				VVDI	WBR :	
Capacity (veh/h)		869		7		631
HCM Cartest Dalay (a)		0.003	-	-		0.002
HCM Control Delay (s) HCM Lane LOS		9.2	0	-	-	
HCM 95th %tile Q(veh)		A 0	Α	-		В
Holy som some ca(ven)		U				0

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	7	11	作	THON	N/F	SOIN
Traffic Vol. veh/h	1	601	407	0	0	0
Future Vol, veh/h	1	601	407	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	н.	المساحة فعيمون	AND ADDRESS OF THE PARTY AND ADDRESS.	None		None
Storage Length	200	-		-	0	-
Veh in Median Storage		0	0	-	2	
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	1	810	549	0	0	
						-
Malachtinar	Animal		Anima		(Ainair)	rain to English
	Major1		Major2		Vinor2	075
Conflicting Flow All	549	0	-	0	956	275
Stage 1		*		•	549	- 34
Stage 2 Critical Hdwy	4.14	-			407	6.94
the second secon			-		6.84 5.84	THE PERSON NAMED IN
Critical Hdwy Stg 1 Critical Hdwy Stg 2	-		-		5.84	-
Follow-up Hdwy	2.22	-		-	3.52	
Pot Cap-1 Maneuver	1017		-		256	722
Stage 1	1017	-	-	-	542	122
Stage 2	-			•	641	-
Platoon blocked, %				_	U41	
Mov Cap-1 Maneuver	1017				256	722
Mov Cap-2 Maneuver	1017		-		448	124
Stage 1					541	_
Stage 2	_		_	-	641	-
Olugo Z					971	
	P-12		4 8 100			
Approach	EB		WB		SB	oviva (a)
HCM Control Delay, s	0		0		0	
HCM LOS					Α	
						Train to
Minor Lane/Major Mym	nt in the	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1017				
HCM Lane V/C Ratio		0.001	-	-	-	-
HCM Control Delay (s)		8.5	-			0
HCM Lane LOS		Α	-	-	-	
HCM 95th %tile Q(veh))	0			- 14	

Internation						
Intersection	0		30-1824	in and the second		(5)
Int Delay, s/veh	Ü					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		414	1		A	
Traffic Vol, veh/h	1	600	406	- 1	0	1
Future Vol, veh/h	1	600	406	1	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	CONTRACTOR DESCRIPTION OF THE PARTY OF THE P		Market Street		None
Storage Length	-	-		-	0	-
Veh in Median Storage,	# -	0	0		2	
Grade, %	-	0	0	_	0	-
Peak Hour Factor	92	92	92	92	92	92
	2	2	2	2	2	
Heavy Vehicles, %						2
Mymt Flow	1	809	547	1	0	-1
Major/Minor V	lajor1	15.4	Vlajor2	1	Ainor2	
Conflicting Flow All	548	0	-	0	955	274
Stage 1	010	1			548	
Stage 2	-	-	_	-	407	_
Critical Hdwy	4.14				6.84	6.94
Critical Hdwy Stg 1	-				5.84	0.04
Critical Hdwy Stg 2	-		-	-	5.84	
		-			CONTRACTOR SERVICES	2 22
Follow-up Hdwy	2.22		-	-	3.52	3.32
Pot Cap-1 Maneuver	1018		-	-	256	724
Stage 1	-	-	-	-	543	-
Stage 2		•			641	
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1018	-	-	-	255	724
Mov Cap-2 Maneuver	-	-	-	-	449	-
Stage 1	•	-		- L F	542	
Stage 2	-	-	1-	-	641	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		10	
HCM LOS					В	
Minor Lane/Major Mymt		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1018	-		-	724
HCM Lane V/C Ratio		0.001	-	-		0.002
HCM Control Delay (s)		8.5	. 0			
HCM Lane LOS		A	A		_	В
HCM 95th %tile Q(veh)		0				0
TOTAL COLL TOUC G(1811)		V				V

Intersection			91.			
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	ħ	^	1	THE STATE OF THE STATE OF	W	
Traffic Vol, veh/h	1	591	334	1	0	2
Future Vol, veh/h	1	591	334	1	0	2
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized		None	•	None		None
Storage Length	0	-	-	-	0	-
Veh in Median Storage,	# -	0	0		2	- 2
Grade, %		0	0	-	0	-
Peak Hour Factor	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	1	872	493	1	0	3
Major/Minor M	lajor1	1/4/	Major2	16.5	Minor2	4 4 3 6
Conflicting Flow All	494	0	-	0	932	247
Stage 1		-	•		494	-
Stage 2	-	-	*	-	438	-
Critical Hdwy	4.14		-		6.84	6.94
Critical Hdwy Stg 1	-	-	-		5.84	-
Critical Hdwy Stg 2			7	-	5.84	
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	1066	5 -4	-		265	753
Stage 1	-	-	-		579	-
Stage 2			-		618	-
Platoon blocked, %		-	-	•		
Commence Annual Commence Comme	1066			4	265	753
Mov Cap-2 Maneuver	-		-	-	461	-
Stage 1	. ,-		- G-		578	1 04
Stage 2	- 2	-	-	-	618	-
			A		- 12-4-4	
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		9.8	
HCM LOS					Α	
Minor Lane/Major Mvmt	10	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1066	7-	-		753
HCM Lane V/C Ratio		0.001	-	-	-	0.004
HCM Control Delay (s)	(s) =	8.4		S. +		9.8
						Α
HCM Lane LOS HCM 95th %tile Q(veh)		Α 0	-	-	-	0

Synchro 10 Report Page 1 Baseline

Intersection						re in the later
Int Delay, s/veh	0				766	1999
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		414	1		M	
Traffic Vol, veh/h	2	589	333	2	1	2
Future Vol, veh/h	2	589	333	2	1	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized		None		None		None
Storage Length					0	-
Veh in Median Storage,	# -	0	0		2	
Grade, %	-	0	0	-	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	3	859	486	3	1	3
WWITE I IOW	J	000	400	J	1	, o
Major/Minor N	Najor1		Vajor2		Vinor2	
Conflicting Flow All	489	0	-	0	924	245
Stage 1	-	-		-	488	
Stage 2	_	-	-	-	436	-
Critical Hdwy	4.14		7-1-1		6.84	6.94
Critical Hdwy Stg 1	7.17				5.84	
			-	-		
Critical Hdwy Stg 2	0.00	-	-		5.84	0.00
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	1070		•		268	755
Stage 1	-	-	-	-	583	-
Stage 2		÷	-	J200	619	in and •
Platoon blocked, %		- 2	-	-		
Mov Cap-1 Maneuver	1070	- 4	-		267	755
Mov Cap-2 Maneuver	-	-	-	-	462	-
Stage 1					580	2
Stage 2	-	-	-	-	619	-
Otage 2					013	
Approach	EB		WB		SB	
HCM Control Delay, s	0	- 1	0		10.8	
HCM LOS					В	
	7.5			i i e e		
Minor Lane/Major Myrni		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	- 1	1070		7	-	623
HCM Lane V/C Ratio		0.003	-	-	-	0.007
HCM Control Delay (s)		8.4	0			
HCM Lane LOS		A	A	_	_	В
HCM 95th %tile Q(veh)		0	-	_		0
LICINI DOUT TOUTE CHARITY		U	-		3 3 3	U

Intersection					(V4-5)	
Int Delay, s/veh	4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	7	44	^ 1>		N/	
Traffic Vol, veh/h	98	511	658	13	29	128
Future Vol., veh/h	98	511	658	13	29	128
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized		managed and the second		None	-	None
Storage Length	200	-	-	-	0	-
Veh in Median Storage,		0	0		2	
Grade, %	-	0	0	-	0	-
Peak Hour Factor	60	92	92	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	163	555	715	22	48	213
WINTERTOW	103	330	/13	24	40	213
	ajor1		Major2		Minor2	
Conflicting Flow All	737	0	-	0	1330	369
Stage 1	-			•	726	- 16
Stage 2	-			-	604	-
	4.14	i Essats	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-		-		5.84	-
	2.22		-	-	3.52	3.32
Pot Cap-1 Maneuver	865			-	146	628
Stage 1	-	-		-	440	-
Stage 2	-				508	
Platoon blocked, %		-	_	-	000	
Mov Cap-1 Maneuver	865				119	628
Mov Cap-2 Maneuver	-	-		-	260	020
Stage 1		-	-	-	357	
						*
Stage 2	-	-	-	-	508	-
530 20 30 30 30 30 50						
Approach	EB	1 - T	WB		SB	
HCM Control Delay, s	2.3		0		20	
	-				C	
HCM LOS						
HCM LOS						
		EDY	FRT	MET	WRD	SRI nd
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	
Minor Lane/Major Mvmt Capacity (veh/h)		865	-	-	1.5	498
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio	7	865 0.189	-	•		498 0.525
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		865 0.189 10.1	-	•		498 0.525 20
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio		865 0.189	-	•		498 0.525

Intersection		-4-1				14-23
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		414	† †>		*	The Control of the Co
Traffic Vol, veh/h	2	415	668	38	4	- 1
Future Vol, veh/h	2	415	668	38	4	1
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	1166	STORWING CO. GO.		None	Stop	CONTRACTOR OF STREET
Storage Length		NUNG -		190116	0	None
Veh in Median Storage,	# -	0	0		2	
Grade, %	# -	0	0	-	0	
Peak Hour Factor		92	92	60	60	- 00
	92					60
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	451	726	63	7	2
Major/Minor M	lajor1	- 4	Major2		Minor2	
Conflicting Flow All	789	0	-	0	988	395
Stage 1	-	-			758	-
Stage 2	-	-	-	-	230	-
	4.14				6.84	6.94
Critical Hdwy Stg 1	-	-		-	5.84	-
Critical Hdwy Stg 2		-		4.	5.84	10 112
	2.22	-	_	-	3.52	3.32
Pot Cap-1 Maneuver	827				244	604
Stage 1	- 021		-	-	423	-
			-			
Stage 2	•	- 2			786	*
Platoon blocked, %	007	7	,	-	0.10	001
Mov Cap-1 Maneuver	827	m - 3			243	604
Mov Cap-2 Maneuver	-	+		-	388	-
Stage 1					422	-
Stage 2	-	-		-	786	-
Total Control of the	-10	, 2-3-1				
Approach	EB.		WB		SB	
HCM Control Delay, s	0		0		13.8	
HCM LOS	V		· ·		В	
					U	
Minor Langithaine Mount		CDI	EDT	MOT	MOD	col et
Minor Lane/Major Mymt		EBL	EBT	WBT	WBR	
Capacity (veh/h)		827		-		
HCM Lane V/C Ratio		0.003	-	-	-	
HCM Control Delay (s)		9.4	0	-	-	1010
HCM Lane LOS HCM 95th %tile Q(veh)		A 0	Α	-	-	0.1

Intersection		an William			(1)			
Int Delay, s/veh	2.5						-	
Movement	EBL	EBT	WBT	WBR	SBL	SBR		
Lane Configurations	7	11	*	1	7	7		
Traffic Vol., veh/h	135	405	621	48	13	50		
Future Vol, veh/h	135	405	621	48	13	50		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized		None	A CANADA CONTRACTOR	None				
Storage Length	200	-	÷	200	0	0		
Veh in Median Storage,	# -	0	0	-	2			
Grade, %	-	0	0	-	0	-		
Peak Hour Factor	60	92	92	60	60	60		
Heavy Vehicles, %	2	2	2	2	2	2		
Mymt Flow	225	440	675	80	22	83		
	Major1	4 - 1	Major2		Minor2		The state of the s	
Conflicting Flow All	755	0		0	1345	338		
Stage 1			/		675	•		
Stage 2	-	-		-	670	-		
Critical Hdwy	4.14	-	•		6.84	6.94	e de la companya de	
Critical Hdwy Stg 1	-	-	-	-	5.84	14		
Critical Hdwy Stg 2	-		-	-	5.84	990		
Follow-up Hdwy	2.22	-	-	-	3.52	3.32		
Pot Cap-1 Maneuver	851			-	143	658		
Stage 1	-	-	-	-	467			
Stage 2		-		-	470			
Platoon blocked, %		-	-	-				
Mov Cap-1 Maneuver	851		+		105	658		
Mov Cap-2 Maneuver	-	-	-	-	209	-		
Stage 1	-	3-1-1			344			
Stage 2	-	-	-	-	470	14		
						- 420 =30		
Approach	EB		WB		SB	ing the		
HCM Control Delay, s	3.6		- 0		14			
HCM LOS		- KAE			В			
				111-5				
Minor Lane/Major Mvm	l i	EBL	EBT	WBT		SBLn1		
Capacity (veh/h)		851					658	assummand a second
HCM Lane V/C Ratio		0.264	-	-	CONTRACTOR .	0.104		
HCM Control Delay (s)		10.7	-	-			11.3	
HCM Lane LOS		В	-		-	С	В	
HCM 95th %tile Q(veh)		1.1	-•	-		0.3	0.4	

Intersection			1 2 6	8- 9 <u>1</u> 3			
Int Delay, s/veh	5.7						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	Carry of the second of the sec
Lane Configurations	M		To.			4	
Traffic Vol, veh/h	142	0	11	100	0	15	
Future Vol., veh/h	142	0	11	100	0	15	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized		EDWINDS CONTRACTOR				None	
Storage Length	0	-				-	
/eh in Median Storage	,# 0		0	÷ 4		0	
Grade, %	0	-	0	-	-	0	
Peak Hour Factor	60	60	60	60	60	60	
Heavy Vehicles, %	2	2	2	2	2	2	
Wymt Flow	237	0	18	167	0	25	
Major/Minor	Minor1		Major1	0630	Major2		
Conflicting Flow All	127	102	0	0		0	A CONTROL OF THE PROPERTY OF T
Stage 1	102	102	0	U	100		
Stage 2	25	-	-	-	_	-	
Critical Hdwy	6.42	6.22			4.12	-	
Critical Hdwy Stg 1	5.42		4	-	7.14	-	
Critical Hdwy Stg 2	5.42		4		-		
Follow-up Hdwy	The second secon	3.318		-	2.218	-	
Pot Cap-1 Maneuver	868	953			1390	-	
Stage 1	922	-	-	-	-	-	
Stage 2	998	-		-	1	-	
Platoon blocked, %			-	-		-	
Mov Cap-1 Maneuver	868	953		-	1390	- 12	
Mov Cap-2 Maneuver	868	-	-	-	-	-	
Stage 1	922	-	14	-		-	
Stage 2	998		-		-	-	
Approach	WB		NB		SB		The state of the s
HCM Control Delay, s	10.7		0		0		
HCM LOS	В						
	Ŗ-1, - 1				6.14.00		
Minor Lane/Major Myn	it .	NBT	NBRI	WBLn1	SBL	SBT	
Capacity (veh/h)		- 3	•		1390		
HCM Lane V/C Ratio		-	-	0.273	-	-	
HCM Control Delay (s)		-	- 5.	10.7	0		
HCM Lane LOS		-	-	В	Α	-	
HCM 95th %tile Q(veh))	-		1.1	.0	(2)	A THE RESERVE OF THE PROPERTY

Intersection						
Int Delay, s/veh	3.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		1			र्भ
Traffic Vol, veh/h	10	0	1	10	0	5
Future Vol, veh/h	10	0	1	10	0	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop			CAR COLOR	riee	STORY WINDOWS
	0		*	and the same of	- 17	
Storage Length		-	-	-	-	-
Veh in Median Storage			0		-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	60	60	60	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	17	0	2	17	0	8
Major/Minor A	vinor1	135 151	Major1	5,6390	Major2	10.5
Conflicting Flow All	19	11	0	0	19	0
Stage 1	11		7	-	10	
Stage 2	8	-	-			4
Critical Hdwy	6.42	6.22	4		4.12	
Critical Hdwy Stg 1	5.42	U sheke	-		4.12	4
Critical Hdwy Stg 2	5.42					
		3.318			2.218	
Pot Cap-1 Maneuver	998	1070	_	-		-
The second secon			395		1597	-
Stage 1	1012	-	-		-	-
Stage 2	1015	-				66° a
Platoon blocked, %	000	1000	-	-		-
Mov Cap-1 Maneuver	998	1070	-	-	1597	
Mov Cap-2 Maneuver	998	-	-	-	-	-
Stage 1	1012	1 H	-	•		
Stage 2	1015	-	-	-	-	-
						Light ist-
Approach	WB		NB		SB	CXXXII SAN
HCM Control Delay, s	8.7		0		0	
HCM LOS	Α		.0		U	
HOW LOS	А	C-1				
Minor Lane/Major Mvm	1	NBT	NBRV	NBLn1	SBL	SBT
Capacity (veh/h)				998	1597	
UCM Lana VIC Datia		-	-	0.017	-	-
HCM Lane V/C Ratio			CONTRACTOR OF THE PARTY OF THE		~	
ACRES AND ADDRESS OF THE PARTY		-	- 2	8.7	. 0	- 110 -
HCM Control Delay (s) HCM Lane LOS		-		8.7 A	0 A	-

Intersection			2 8 1					
Int Delay, s/veh	3.2							
Movement	EBL	EBT	WBT	WBR	SBL	SBR		
Lane Configurations	7	44	^		N.			
Traffic Vol, veh/h	52	811	553	6	44	119		
Future Vol, veh/h	52	811	553	6	44	119		
Conflicting Peds, #/hr	0	0	0	0	0	0	registration of the second	
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	DOMESTIC STREET, SALES		MANAGEMENT OF THE PARTY.		THE REAL PROPERTY.		
Storage Length	200	-	-	-	0	-		
/eh in Median Storage,		0	0	-	2	-		
Grade, %	-	0	0	-	0	-	- Ar-minate - Control - Co	
Peak Hour Factor	60	92	92	60	60	60		
Heavy Vehicles, %	2	2	2	2	2	2		
Mvmt Flow	87	882	601	10	73	198		
H00000000								
Major/Minor N	lajor1		Major2		Vinor2		policies and the second	
Conflicting Flow All	611	0	-	0	1221	306		
Stage 1	•		-		606			
Stage 2		-	-	-	615	-		
Critical Hdwy	4.14			•	6.84	6.94		
Critical Hdwy Stg 1		-	-	-	5.84	-		
Critical Hdwy Stg 2			-		5,84			
Follow-up Hdwy	2.22	-	-	-	3.52	3.32		
Pot Cap-1 Maneuver	964	32	. ÷	-	172	690		
Stage 1	-	-	-	-	507	-		
Stage 2	-	-			502	Ψ,		
Platoon blocked, %		-	-	-				
Mov Cap-1 Maneuver	964			-	157	690		
Mov Cap-2 Maneuver	-	-		-	325	-		
Stage 1	-				461	- 3-1		
Stage 2	-	-	-	-	502	-		
							Jana Jana Jana Jana Jana Jana Jana Jana	
Approach	EB		WB		88		Action to the second	Some state of the second state of
HCM Control Delay, s	0.8		0	Tiese in	18.8			
HCM LOS					С			
Minor Lane/Major Mymt		EBL	EBT	AMDT	MOD	CDINA		
Capacity (veh/h)	2/3	964	EOI	WBT		529		
HCM Lane V/C Ratio		0.09	-	-		0.514		
HCM Control Delay (s)		9.1				18.8		
HCM Lane LOS		A	_	-		C		
HCM 95th %tile Q(veh)		0.3		7	_	2.9		
HOW DOLL TOLIC ON AGE!		0,0				2.0		

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		414	44		N	
Traffic Vol, veh/h	1	809	523	12	7	1
Future Vol, veh/h	1	809	523	12	7	1
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	1100		-	None	ctop	None
Storage Length	-	-		-	0	-
Veh in Median Storage,		0	0	-	2	
Grade, %		0	0	_	0	-
Peak Hour Factor	92	92	92	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
	NAME OF TAXABLE PARTY.		568	20	12	2
Mymt Flow	1	879	900	20	12	
Major/Minor M	Najor1	1	Major2	-1/	Minor2	
Conflicting Flow All	588	0		0	1020	294
Stage 1	-	-	- 46	-	578	
Stage 2	-	-	-	-	442	7
Critical Hdwy	4.14	4			6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	
Critical Hdwy Stg 2		*			5.84	
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	983			-	233	702
Stage 1	-		-	-	524	-
Stage 2					615	
Platoon blocked, %			-	-	010	
Mov Cap-1 Maneuver	983				233	702
					428	102
					420	-
Mov Cap-2 Maneuver	-	-			500	
Stage 1				-	523	
		-	•	-	523 615	
Stage 1			•	-		
Stage 1			WB	-		
Stage 1 Stage 2 Approach	-		WB 0		615	
Stage 1 Stage 2	EB		THE RESERVE OF THE PERSON NAMED IN	-	615 SB	
Stage 1 Stage 2 Approach HCM Control Delay, s	EB		THE RESERVE OF THE PERSON NAMED IN	-	615 8B 13.2	
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS	EB 0	and the state of t	0		615 SB 13.2 B	
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mymt	EB 0	EBL	O EBT	WBT	615 SB 13.2 B	SBLn1
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mymt Capacity (veh/h)	EB 0	EBL 983	O EBT	WBT	615 SB 13.2 B	SBLn1 450
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mymt Capacity (veh/h) HCM Lane V/C Ratio	EB 0	EBL 983 0.001	EBT	WBT	8B 13.2 B WBR	SBLn1 450 0.03
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mymt Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	EB 0	EBL 983 0.001 8.7	EBT	WBT	8B 13.2 B WBR	SBLn1 450 0.03 13.2
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mymt Capacity (veh/h) HCM Lane V/C Ratio	EB 0	EBL 983 0.001	EBT	WBT	8B 13.2 B WBR	SBLn1 450 0.03

Intersection							
Int Delay, s/veh	1.5						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	7	**	*	7	7	7	
Traffic Vol, veh/h	66	789	511	14	21	48	
Future Vol, veh/h	66	789	511	14	21	48	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized		None		None	-	None	
Storage Length	200	7	-	200	0	0	
Veh in Median Storage,	# -	-0	0	-	2		
Grade, %	-	0	0		0		
Peak Hour Factor	60	92	92	60	60	60	
Heavy Vehicles, %	2	2	2	2	2	2	
Mymt Flow	110	858	555	23	35	80	
Major/Minor M	lajor1		Major2		Vinor2	Salvania	
Conflicting Flow All	578	0	viajuiz		1204	278	
Stage 1	3/0	U	-	U	555	2/0	
Stage 2	-	-			649		
Critical Hdwy	4.14				6.84	6.94	
Critical Hdwy Stg 1	-	-	-	-	5.84	9.91	
Critical Hdwy Stg 2		7 3	-		5.84		
Follow-up Hdwy	2.22	-	_	-	3.52	3.32	
Pot Cap-1 Maneuver	992				177	719	
Stage 1	-	-	-		539	-	
Stage 2	-	-	-	SEE.	482		
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	992			17.32	157	719	
Mov Cap-2 Maneuver	-	-	-		310	-	
Stage 1			-		479		
Stage 2	-	-	-	-	482	-	
Approach	EB		WB		SB		
HCM Control Delay, s	1		0		12.9		
HCM LOS			U		12.5 B		
						- 1,-1	
Minor Lane/Major Mymt		EBL	EBT	WBT	WBR	SBLn1	SBLnZ
Capacity (veh/h)	55	992	-		-	310	719
HCM Lane V/C Ratio		0.111	-	-	-	0.113	
HCM Control Delay (s)	i a i	9.1	-			18.1	10,6
HCM Lane LOS		Α	-	÷	-	C	В
HCM 95th %tile Q(veh)		0.4		e		0.4	0.4

Baseline Synchro 10 Report Page 1

Intersection				int ske =		
Int Delay, s/veh	7.1					
		SAIPS	NOT	Non	CDI	ODT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	M		f)			4
Traffic Vol, veh/h	153	0	- 11	47	0	10
Future Vol, veh/h	153	0	11	47	0	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None		None		None
Storage Length	0	-		-	-	-
Veh in Median Storage,	# 0		0	12	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	60	60	60	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	255	0	18	78	0	17
	200		,,,		•	16
Major/Minor N	Vinor1	1	Major1	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Major2	
Conflicting Flow All	74	57	0	0	96	0
Stage 1	57	-	-			(
Stage 2	17	-		-	-	-
Critical Hdwy	6.42	6.22	+		4.12	2
Critical Hdwy Stg 1	5.42	-	-	-	-	_
Critical Hdwy Stg 2	5.42	- L				
		3.318	-		2.218	_
Pot Cap-1 Maneuver	930	1009			1498	
Stage 1	966	1003			1430	
Stage 2	1006			-	•	
	1000		-	-		•
Platoon blocked, %	000	1000	-	-	1 100	•
Mov Cap-1 Maneuver	930	1009	-	•	1498	
Mov Cap-2 Maneuver	930	-	-	-	-) -
Stage 1	966		•	3 = 4	-	
Stage 2	1006	-	-	-	-	-
			33.3) Dominion		
Approach	WB		NB		SB	
HCM Control Delay, s	10.3		0		0	
HCM LOS	В		U		U	
TION LOS	В					
Minor Lane/Major Mymi		NBT	NBRI	VBLn1	SBL	581
		1,0000			1498	2
					1400	35.50
Capacity (veh/h)						
Capacity (veh/h) HCM Lane V/C Ratio		-	•	0.274	-	•
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)			-	0.274 10.3	0	-
Capacity (veh/h) HCM Lane V/C Ratio			•	0.274 10.3 B	-	

Intersection							
Int Delay, s/veh	3.9				and Articles	and the second	
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	W		4	Brookin B		4	
Traffic Vol, veh/h	10	0	1	10	0	- 0	
Future Vol, veh/h	10	0	1	10	0	0	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	Stop	None	-	TO SHARE SHOW	1166		
Storage Length	0	None		NOUG		None	
Veh in Median Storage			0		-	0	
Grade, %	0	-	0	- 34	-	0	
Peak Hour Factor	60	60	60	co.	60	60	
		2		60			
Heavy Vehicles, % Mvmt Flow	17	0	2	17	2	2	The state of the s
WINEFIOW	17	U	- 2	17	0	U	
Major/Minor	Minor1	1	Major1		Major2		
Conflicting Flow All	13	11	0	0	19	0	
Stage 1	11						
Stage 2	2	-		-	-	-	
Critical Hdwy	6.42	6.22			4.12	_	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	- 2	(1) L		- 4	
Follow-up Hdwy	***	3.318	-	-	2.218	-	
Pot Cap-1 Maneuver	1006	1070			1597	-	
Stage 1	1012	-	-	-	-	-	
Stage 2	1021					4	
Platoon blocked, %				-			
Mov Cap-1 Maneuver	1006	1070		-	1597		
Mov Cap-2 Maneuver	1006	-	-	-	-	-	
Stage 1	1012	-	-	-			
Stage 2	1021	-	-	-	-	-	
			(7		
Approach	WB		NB		SB	Espiz B	
HCM Control Delay, s	8.6		0		0		
HCM LOS	Α						
Minor Lane/Major Mvm	rt.	NBT	NEDV	VBLn1	SBL	SBT	
Capacity (veh/h)	16.			COLUMN TO SECURE A SE			
HCM Lane V/C Ratio	33.3			1006	1597	- 53	
		-46.4		0.017	0	7.	
HCM Control Delay (s) HCM Lane LOS	le ic	-	- 4	8.6	0		
	1		-	A	A	-	
HCM 95th %tile Q(veh))			0.1	0		

Intersection					17 543	
Int Delay, s/veh	1		CONTRACTOR OF THE PARTY OF THE			
		grit prater	16/00.00	1 × 100 m	- Auto-	orm
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	7	^	1		M	
Traffic Vol, veh/h	25	770	431	3	15	40
Future Vol, veh/h	25	770	431	3	15	40
Conflicting Peds, #/hr	0	0	0	0	- 0	0
0	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None		None	-	None
Storage Length	200	-		-	0	-
Veh in Median Storage,	# -	0	0	-	2	
Grade, %	1-1	0	0	-	0	-
Peak Hour Factor	60	84	84	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	42	917	513	5	25	67
WWILL FIOW	42	311	313	0	23	01
Major/Minor M	lajor1		Major2	W-101 1	Vinor2	6. J. P.
Conflicting Flow All	518	0	-		1059	259
Stage 1	310	-			516	203
Stage 2					543	-
Critical Hdwy	4.14		-	-		6.94
					6.84	emic actual value
Critical Hdwy Stg 1	•	-	-	-	5.84	-
Critical Hdwy Stg 2		-	-		5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
	1044	1 19	•		220	740
Stage 1	-	-	-	~	564	-
Stage 2	-	-	-	-	546	
Platoon blocked, %		-	-	-		
	1044	-		_	211	740
Mov Cap-2 Maneuver	-	_	-	-	396	- 10
Stage 1					541	
Stage 2			-		546	* 51-4-53
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		12.1	
	U.4		U			
HCM LOS					В	
Minor Lane/Major Mymt		EBL	EBT	WBT	WER	SBLn1
Capacity (veh/h)		1044	2/1/10		TYDIX	
HCM Lane V/C Ratio	33	0.04		- TET		
			-	-		0.153
HCM Control Delay (s)		8.6	7	-	•	
HCM Lane LOS HCM 95th %tile Q(veh)		A 0.1	-		-	0.5
			22.5		-	

Intersection					100	
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		44	朴		W	
Traffic Vol, veh/h	2	752	422	8	3	2
Future Vol, veh/h	2	752	422	8	3	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	- 4	None	•	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0		2	•
Grade, %	-	0	0	-	0	14
Peak Hour Factor	85	85	85	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	885	496	13	5	3
	lajor1		Major2		Ainor2	
Conflicting Flow All	509	0	-	0	950	255
Stage 1		-			503	e 1 = 2. *
Stage 2		5		-	447	
Critical Hdwy	4.14	-			6,84	6.94
Critical Hdwy Stg 1		-	-	-	5.84	-
Critical Hdwy Stg 2		18516	-		5.84	
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	1052	F			258	744
Stage 1	-	-	-	-	573	-
Stage 2	3.	-	-		611	
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1052			-	257	744
Mov Cap-2 Maneuver	-	-	-	-	454	-
Stage 1					571	
Stage 2	-	-	-	-	611	-
Approach	EB		WB		SB	
HCM Control Delay, s	0	10.5	0		11.8	
HCM LOS					В	
					3- 11	
Minor Lane/Major Mymt		EBL	EBT	WBT	WBR	SBLni
Capacity (veh/h)		1052	-	4.5	-	538
HCM Lane V/C Ratio		0.002	-	-	-	0.015
HCM Control Delay (s)		8.4	- 0	7.5		11.8
HCM Lane LOS		Α	Α	-	-	В
HCM 95th %tile Q(veh)		0				0

Intersection								42 Fig.		27-7-3 2 3 3 3
Int Delay, s/veh	0.7									
			MOT	MED	001	opp				
Movement Configurations	EBL	EBT	WBT	WBR	SBL	SBR				
Lane Configurations	77		44	7	7					
Traffic Vol, veh/h	37	748	417	7	7	17				
Future Vol, veh/h	37	748	417	7	7	17				
Conflicting Peds, #/hr	0	THE RESERVE OF THE PERSON NAMED IN	0	0	0	0			- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
Sign Control	Free		Free	Free	Stop	Stop				
RT Channelized	-		-	None	-				-	
Storage Length	200		-	200	0	0				
Veh in Median Storage,	# -		0		2					
Grade, %	-		0	-	0	-				
Peak Hour Factor	60	92	92	60	60	60				
Heavy Vehicles, %	2	2	2	2	2	2				
Mymt Flow	62	813	453	12	-12	28				
Major/Minor N	tajor1		Vajor2		Vinor2		7142.00			SEC.
Conflicting Flow All	465		-	0	984	227				
Stage 1	,,,,,		-		453	-			: :	
Stage 2	-		-	-	531	-				
Critical Hdwy	4.14				6.84	6.94				
Critical Hdwy Stg 1	-	and the second section is not a second	-		5.84	0.04				
Critical Hdwy Stg 2					5.84					
Follow-up Hdwy	2.22		-	-	3.52	3.32				
Pot Cap-1 Maneuver	1093				246	776				
Stage 1	1000		-	-	607	- 110				
Stage 2				-	554	-				
Platoon blocked, %					554					
Mov Cap-1 Maneuver	1093		-	-	220	776				
	*************		•		232					
Mov Cap-2 Maneuver	-		•	-	406					
Stage 1	400		•		572			1 52.5		
Stage 2			-	-	554	(*)				
		Angel St.								
Approach	EB	l in the	WB		SB					
HCM Control Delay, s	0.6	S IF I	0		11.1					
HCM LOS					В					
		Samuel Control			19					
Minor Lane/Major Mvml		EBL	EBT	WBT	WBR	SBLn1 8	BLn2		100 H	
Capacity (veh/h)		1093				406	776			
HCM Lane V/C Ratio		0.056	-	-	-	0.029				
HCM Control Delay (s)		8.5		-		14.1	9.8			
HCM Lane LOS		A	-	-	-	В	A			
HCM 95th %tile Q(veh)		0.2				0.1	0.1			
,		0,2				0.1	- U. T			

Intersection		54-15		4.50		Si 127
Int Delay, s/veh	5.7					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	**		1,			र्भ
Traffic Vol, veh/h	53	0	2	26	0.	2
Future Vol, veh/h	53	0	2	26	0	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Olop			None	1166	CONTRACTOR OF THE PARTY OF THE
Storage Length	0	NOTE:		140116		None -
	THE RESERVE AND THE PARTY OF TH					
Veh in Median Storage			0	- (1) - 17		0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	60	60	60	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	- 88	0	3	43	0	3
Major/Minor	Minor1	- 1	Vajor1		Major2	100
Conflicting Flow All	28	25	0	0	46	0
Stage 1	25	20		U	40	0
	3		*	-		
Stage 2		6.22	-	-	4.40	-
Critical Hdwy	6.42		-		4.12	•
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42		-			
Follow-up Hdwy		3.318	-	-	2.218	-
Pot Cap-1 Maneuver	987	1051	*	-	1562	
Stage 1	998	-	-	-	-	-
Stage 2	1020		4	-		- ×
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	987	1051		-	1562	-
Mov Cap-2 Maneuver	987	-	-	-	-	-
Stage 1	998	-	-		540	
Stage 2	1020	-	-	-	-	-
· Constitution	(3/0)					
Approach	W8		NB		SB	
HCM Control Delay, s	9		0	4.7	0	
HCM LOS	Α					
				NICOL	SBL	SBT
Minnr Lane/Major Mym	i i	NRT	NRRV	3万/二百姓 6年 80		
Minor Lane/Major Mym	if and the second	NBT	NBRV			
Capacity (veh/h)	1	12		987	1562	
Capacity (veh/h) HCM Lane V/C Ratio		•		987 0.089	1562	
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		•		987 0.089 9	1562	•
Capacity (veh/h) HCM Lane V/C Ratio		•		987 0.089	1562	

Intersection			10 45	5	16 11		
Int Delay, s/veh	0	0					
	38000		A APPAPA	N. Carlon	MOD	ani	COT
Movement	WBL		NBR	NBT	NBR	SBL	SBT
Lane Configurations	N/F	Debter State of the Control		fà.			र्स
Traffic Vol, veh/h	0		0	2	0	0	2
Future Vol, veh/h	0		0	2	0	0	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0
Sign Control	Stop	p 5	Stop	Free	Free	Free	Free
RT Channelized		- N	None		None		None
Storage Length	0	-	-	-	-	-	-
Veh in Median Storage	and the same of th	AND DESCRIPTION OF THE PARTY OF		0			0
Grade, %	0		-	0	-	-	0
Peak Hour Factor	60		60	60	60	60	60
		None of the last o		AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM			
Heavy Vehicles, %	2		2	2	2	2	2
Mvmt Flow	0	0	0	3	0	0	3
Major/Minor I	Minor1	1	A leading	Najor1		Vajor2	
Conflicting Flow All	6		3	0	0	3	0
							0
Stage 1	3		•		-		-
Stage 2	3		-	*	re/	-	-4
Critical Hdwy	6.42		6.22		335 - A	4.12	
Critical Hdwy Stg 1	5.42		-	-	-	14	-
Critical Hdwy Stg 2	5.42	OURSELABOR.	-				
Follow-up Hdwy	3.518	8 3.	3.318	- 8	-	2.218	-
Pot Cap-1 Maneuver	1015	5 1	1081		-	1619	-
	1000					And the last of th	
Stage 1	1020	0	-	-	-	-	7
Stage 1			-		-	-	-
Stage 2	1020			-	-	-	
Stage 2 Platoon blocked, %	1020	0		-	-	1610	
Stage 2 Platoon blocked, % Mov Cap-1 Maneuver	1020	0 5 1	1081	-	-	1619	•
Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver	1020 1015 1015	0 5 1 5	1081	-	•	1619	
Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1	1020 1015 1015 1020	0 5 1 5 0	1081	-	-		•
Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver	1020 1015 1015	0 5 1 5 0	1081	-	-		•
Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1	1020 1015 1015 1020	0 5 1 5 0	1081	-	-		•
Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2	1020 1015 1015 1020 1020	5 1 5 0 0	1081		-	-	•
Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach	1020 1015 1015 1020 1020	5 1 5 0 0	1081	NB	-	SB	•
Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s	1020 1015 1015 1020 1020 WB	5 1 5 0 0	1081		-	-	•
Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach	1020 1015 1015 1020 1020	5 1 5 0 0	1081	NB	-	SB	•
Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s	1020 1015 1015 1020 1020 WB	5 1 5 0 0	1081	NB	-	SB	•
Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS	1020 1015 1015 1020 1020 WB 0 A	0 5 1 5 0 0 0	1081	NB 0		SB 0	
Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS	1020 1015 1015 1020 1020 WB 0 A	0 5 1 5 0 0 0	1081 	NB	VBLn1	SB 0	SBT
Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mym Capacity (veh/h)	1020 1015 1015 1020 1020 WB 0 A	0 5 1 5 0 0 0	1081	NB 0		SB 0	SBT
Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio	1020 1015 1015 1020 1020 WB 0 A	0 5 1 5 0 0 0	1081 	NB 0	VBLn1	SB 0	SBT
Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	1020 1015 1015 1020 1020 WB 0 A	0 5 1 5 0 0 0	1081 	NB 0	VBLn1	SB 0 0 SBL 1619 0	SBT
Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio	1020 1015 1015 1020 1020 WB 0 A	0 5 1 5 0 0 0	1081 	NB 0	VBLn1	SB 0	SBT

Intersection									
Int Delay, s/veh	3.2								
Movement	EBL	EBT	WBT	WBR	SBL	SBR			
Lane Configurations	1	44	44	7	4	7			
Traffic Vol, veh/h	98	511	658	13	29	127			
Future Vol, veh/h	98	511	658	13	29	127			
Conflicting Peds, #/hr	0	0	0	0	0	0			
Sign Control	Free	Free	Free	Free	Stop	Stop			
RT Channelized		None	-	None					
Storage Length	200	-	-	200	0	200			
Veh in Median Storage,		0	0	•	2				
Grade, %	- 00	0	0	-	0	- 00			
Peak Hour Factor	60	92	92	60	60	60			
Heavy Vehicles, %	2	2	2	2	2	2			
Mvmt Flow	163	555	715	22	48	212			
Major/Minor h	Aajor1		Иајог2	1	Vinor2				
Conflicting Flow All	737	0	- AIGIONA		1319	358			
Stage 1	-	-			715	-			
Stage 2	-	-	-	_	604	-			
Critical Hdwy	4.14			•	6.84	6.94	. 6		
Critical Hdwy Stg 1	-	-	-	*	5.84	-			
Critical Hdwy Stg 2		-	-	-	5.84				
Follow-up Hdwy	2.22	-	-	-	3.52	3.32			
Pot Cap-1 Maneuver	865		-	-	149	638			
Stage 1	-	-	-	-	446	-			
Stage 2		•	-	-	508				
Platoon blocked, %		-	-	-					
Mov Cap-1 Maneuver	865				121	638		-0.5	
Mov Cap-2 Maneuver	-	-	-	-	262	-			
Stage 1	•	-		+	362				
Stage 2	-	7	-	-	508	-			
		San							
Approach	EB		WB		SB				
HCM Control Delay, s	2,3		0		15				-
HCM LOS					С				
Minor Lane/Major Mym	1	EBL	EBT	WBT	WAR	SBLn1	SRI no		
Capacity (veh/h)		865	561	TTOT	THOIR !	262	638		
HCM Lane V/C Ratio		0.189	-	-	-	0.184			
HCM Control Delay (s)		10.1	Ī	-	-	21.8	13.4		
HCM Lane LOS		В	-			C C	В		
HCM 95th %tile Q(veh)		0.7				0.7	1.4		
TOWN COST /BUILD GO VESTI)		- Uil				0.1	1.4		

Synchro 10 Report Page 1 Baseline

Lane Configurations 1 1 1 7 1 7 Traffic Vol, veh/h 135 405 621 86 17 50 Future Vol, veh/h 135 405 621 86 17 50 Conflicting Peds, #/hr 0 0 0 0 0
Lane Configurations 1 1 1 7 1 Traffic Vol, veh/h 135 405 621 86 17 50 Future Vol, veh/h 135 405 621 86 17 50 Conflicting Peds, #/hr 0 0 0 0 0
Lane Configurations 7 11 17 17 17 17 17 17 17 17 17 17 17 1
Traffic Vol, veh/h 135 405 621 86 17 50 Future Vol, veh/h 135 405 621 86 17 50 Conflicting Peds, #/hr 0 0 0 0 0 0
Future Vol, veh/h 135 405 621 86 17 50 Conflicting Peds, #/hr 0 0 0 0 0 0
Conflicting Peds, #/hr 0 0 0 0 0 0
RT Channelized - None - None - None
Storage Length 200 200 0 0
Veh in Median Storage, # - 0 0 - 2 -
Grade, % - 0 0 - 0 -
Peak Hour Factor 60 92 92 60 60 60
Heavy Vehicles, % 2 2 2 2 2 2
Mymt Flow 225 440 675 143 28 83
WWIIILTION 220 440 070 140 20 00
Major/Minor Major1 Major2 Minor2
Conflicting Flow All 818 0 - 0 1345 338
Stage 1 675 -
Stage 2 670 -
Critical Hdwy 4.14 6.84 6.94
Critical Hdwy Stg 1 5.84 -
Critical Hdwy Stg 2 5.84 -
Follow-up Hdwy 2.22 3.52 3.32
Pot Cap-1 Maneuver 806 143 658
Stage 1 467 -
Stage 2 - 470 -
Platoon blocked, %
Mov Cap-1 Maneuver 806 103 658
Mov Cap-2 Maneuver 207 -
Stage 1 337 -
Stage 2 470 -
Acceptable FD WD PD
Approach EB WB SB
HCM Control Delay, s 3.8 0 14.8
HCM LOS B
Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 SBLn2
Capacity (veh/h) 806 207 658
HCM Lane V/C Ratio 0.279 0.137 0.127
HCM Control Delay (s) 11.2 25.1 11.3
HCM Lane LOS B D B
HCM 95th %tile Q(veh) 1.1 0.5 0.4

Intersection	16 - Tr	2 16	W. 25		1.75.00			T - C - C		1 10 14
Int Delay, s/veh	2.5									
Movement	EBL	EBT	WBT	WBR	SBL	SBR				100
Lane Configurations	7	十十	44	7	7	7				
Traffic Vol. veh/h	52	811	553	6	44	119				
Future Vol, veh/h	52	811	553	6	44	119				
Conflicting Peds, #/hr	0	-0	0	0	0	0			10,7 88	
Sign Control	Free	Free	Free	Free	Stop	Stop				
RT Channelized	-	THE RESIDENCE	ANNE MINESTALL	None	0.00	None				
Storage Length	200	-	-	Commence of the last	0	200				
Veh in Median Storage,	- Automotive on the same	0	0		2	200				
Grade, %	-	0	0	-	0	-				1 1 1 1 1 1 1
Peak Hour Factor	60	92	92	60	60	60				
Heavy Vehicles, %	2	2	2	2	2	2				
Mymt Flow	87	882	601	10	73	198				
MAINT LIOM	0/	002	001	10	13	198				
Major/Minor N	lajor1	1	Vajor2		Vinor2					
Conflicting Flow All	611	0	-	0	1216	301				
Stage 1	-			-	601				100	
Stage 2	-	-		-	615	-				
Critical Hdwy	4.14	-		1	6.84	6.94		-2.		
Critical Hdwy Stg 1	-	-	-		5.84	-				
Critical Hdwy Stg 2	8 -	-		(4)	5.84		11111111			5350
Follow-up Hdwy	2.22	-	-	-	3.52	3.32				
Pot Cap-1 Maneuver	964		-	a	173	695				
Stage 1	-	-	-		510	-				
Stage 2					502	-				
Platoon blocked, %		-			UUL					
Mov Cap-1 Maneuver	964				157	695				
Mov Cap-2 Maneuver	-		-		326	-				
Stage 1					464					
Stage 2	-	-	-		502					
Oldge 2					302	-				
Approach	EB	e., 1871.	WB		SB					
HCM Control Delay, s	0.8		0		14.1			1 3		
HCM LOS					В					
Minor Lane/Major Mymt		EBL	EBT	MOT	Won	SBLn1	מבי ומי			
			EDI	WBT	WOLK :					
Capacity (veh/h)		964			- 1	326	695		1 E E	
HCM Lane V/C Ratio		0.09	-	-	•	0.225				
HCM Control Delay (s)	-	9.1	-	•	-	19.2	12.2			
HCM Lane LOS		A	-	-	-	С	В			
HCM 95th %tile Q(veh)		0,3			-	0.8	1.2			

ntersection	400				d i					
Int Delay, s/veh	1.6									
Mavement	EBL	EBT	WBT	WBR	SBL	SBR		WE STATE	40	
Lane Configurations	7	十十	^	7	*	7				
Traffic Vol, veh/h	66	789	511	25	28	48				
Future Vol, veh/h	66	789	511	25	28	48				
Conflicting Peds, #/hr	0	0	0	0	0	0				
Sign Control	Free	Free	Free	Free	Stop	Stop				
RT Channelized	-	management of the con-	and the same of th	None	-	in the Contract of the Contrac				
Storage Length	200	-	-	200	0	0				=5.4
Veh in Median Storage,	SALVANTAN STRAINS	0	0	200	2					
Grade, %	-	0	0	-	0	_				
	60	92	92							
Peak Hour Factor				60	60	60				
Heavy Vehicles, %	2	2	2	2	2	2				
Nvmt Flow	110	858	555	42	47	80				
Major/Minor M	ajor1	Ves.A	Vajor2		Vlinor2					
Conflicting Flow All	597	0	-	0	1204	278				
Stage 1	-		-		555	210				
Stage 2	-	-	-	-	649	-				
Critical Hdwy	4.14			11/2	6.84	6.94		Especial Control		-t
Critical Hdwy Stg 1	-	-		-	5.84	0.04			1 t	
Critical Hdwy Stg 2	+	33.61			5.84		2.5			
Follow-up Hdwy	2.22				3.52	3.32				
Pot Cap-1 Maneuver	976	-	-		177	719				
Stage 1	310				539					
Stage 2	-	-	-	-	482	•				
Platoon blocked, %		and the	•	-	402	-				
	070	-		-	457	740				
Mov Cap-1 Maneuver	976		*	-	157	719				
Mov Cap-2 Maneuver		-	-	-	310	-				
Stage 1					478	•	- A - S () - S () - A			
Stage 2		-	-	-	482	-				
Approach	EB		WB		SB					
HCM Control Delay, s	1		0	100	13.6					
HCM LOS			v		В					
	C150									
Minor Lane/Major Mvmt Capacity (veh/h)		976	EBT	WBT -	WBR	SBLn1 310	SBLn2 719			A THERE
HCM Lane V/C Ratio		0.113	-	-						The control of the co
HCM Control Delay (s)		9.2				18.7	10.6			
HCM Lane LOS	71	A				C	В			
		M		-	-	0	D			

Intersection							
Int Delay, s/veh	0.9						
Movement	EBL	EBT	WBT	MOD	CDI	epo	
Lane Configurations	TOL			WBR	SBL	SBR	
		^	421		15	40	
Traffic Vol. veh/h	25	770	431	3	15	40	
Future Vol, veh/h	25	770	431	3	15	40 0	
Conflicting Peds, #/hr	Free	Free	Free		O		
Sign Control	make in the same			Free	Stop	Stop	
RT Channelized	200			None	-	13.00110	
Storage Length	200	- ^		200	0	200	
Veh in Median Storage	C) Mark Comment of the Comment of th	0	0		2		
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	60	84	84	60	60	60	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	42	917	513	5	25	67	
Major/Minor	Major1	1	Major2	1	Minor2		
Conflicting Flow All	518	0	viajui z	0	1056	257	
Stage 1	010	U			513		
Stage 2	-		*	•	543		
	4.14	-	-	-	6.84	6.94	
Critical Hdwy			-				
Critical Hdwy Stg 1		-	-	-	5.84	-	
Critical Hdwy Stg 2	2.22	*			5.84	2.20	
Follow-up Hdwy	2.22	-	-		3.52	3.32	
Pot Cap-1 Maneuver	1044		-	- 1	221	742	
Stage 1	-	*	-	•	566	-	
Stage 2	-1.5				546	*	
Platoon blocked, %	40.41	-	-	-			
Mov Cap-1 Maneuver	1044	-	-	2	212	742	
Mov Cap-2 Maneuver		-	-	-	397	-	
Stage 1	-	-	, e . ,		543	-	
Stage 2	-	-	-	-	546	-	
		STANS I			1		
Approach	EB		WB		SB		
HCM Control Delay, s	0.4		0		11.5		
HCM LOS	0.4		. 0		B		
TIOW LOG					В		
Minor Lane/Major Mvm	Land	EBL	EBT	WBT	WBR	SBLn1 S	BLn2
Capacity (veh/h)		1044	- 2			397	742
HCM Lane V/C Ratio		0.04	-	-	-	0.063	0.09
HCM Control Delay (s)		8.6	-			14.7	10.3
HCM Lane LOS		Α	-	-	-	В	В
HCM 95th %tile Q(veh)	(m)	0.1			-	0.2	0.3
July 2(10il)		711				Ser Sec	0.0

Intersection					- SOU		Terra.					575	
Int Delay, s/veh	0.7												
Movement	EBL	EBT	WBT	WBR	SBL	SBR		oroniaes oroniaes					
Lane Configurations	4	^	^	7	*	1							
Traffic Vol., veh/h	37	748	417	13	9	17							
Future Vol, veh/h	37	748	417	13	9	17							
Conflicting Peds, #/hr	0	0	0	0	0	0							
Sign Control	Free	Free	Free	Free	Stop	Stop							
RT Channelized	-	ALCOHOLD TO SERVICE STREET	CONTRACTOR AND ADDRESS AND ADD	None	-	MACAGEMENTS AUTOS							
Storage Length	200	-	-	200	0	0							
Veh in Median Storage,		0	- 0	-	2								
Grade, %	-	0	0	-	0	-							
Peak Hour Factor	60	92	92	60	60	60						37 34	
Heavy Vehicles, %	2	2	2	2	2	2							
Mvmt Flow	62	813	453	- 22	15	28						-	omini sumani
Major/Minor N	Najor1		Vlajor2		Vinor2			21316			Complete State	rollen Galacia	
Conflicting Flow All	475	0		0	984	227							
Stage 1	-	eg (1) - e			453	-							
Stage 2	-	-	-4	-	531	-							
Critical Hdwy	4.14		*		6.84	6.94							
Critical Hdwy Stg 1	-	-	-	-	5.84	-							
Critical Hdwy Stg 2	-	-		-	5.84	-							
Follow-up Hdwy	2.22	-	-	-	3,52	3.32							
Pot Cap-1 Maneuver	1083	-		-	246	776							
Stage 1	-	-	-	-	607	-							
Stage 2	-	+	-		554	-				- Foods	673		
Platoon blocked, %		-	-										
Mov Cap-1 Maneuver	1083		- 4		232	776		18.5					
Mov Cap-2 Maneuver	-	-	-	-	406	-							
Stage 1	1.14		т.	•	572	-							
Stage 2	-	-	-		554	-							
19-30-100 - S. C.		lei gré											= 4 = 4 = 1
Approach	EB		WB		SB						Time!		
HCM Control Delay, s	0,6	1	0		11.3								12.3
HCM LOS	31 31				В								
Minor Lane/Major Mymi		EBL	EBT	WBT	WBR	SBLn1	SBLn2						
Capacity (veh/h)		1083		1,61	TILLIN		776		10 32				
HCM Lane V/C Ratio		0.057		-		0.037		15			-C1	100000	
HCM Control Delay (s)		8.5		-		14.2	9.8						
HCM Lane LOS		A	-	-		В	Α.						
HCM 95th %tile Q(veh)		0.2				0.1	0.1						2.5
TOM OUR TOME ON ACT.)		Vila				0.1	0.1						

APPENDIX K:

HISTORICAL & ARCHAEOLOGICAL SURVEY

6.0 HISTORICAL USE INFORMATION

6.1 Aerial Photograph Review

ECS reviewed aerial photographs of the subject property and immediately surrounding properties for evidence of former usage which may indicate potential environmental issues. The aerial photographs were obtained from EDR. The aerial photographs reviewed were dated 1941, 1953, 1958, 1960, 1968, 1979, 1983, 1989, 1994, 2005, 2009, 2013, and 2017. Aerial photographs dated prior to 1941 were not available for review. The ECS review is dependent on the quality and scale of the photographs. The following is a description of relevant information from the aerial photographs:

Year(s)	Subject Property	Adjoining Properties	(yes or no)
1946	A school is located on the southwest corner of the subject property, a residence is depicted north of the school building and a residence is located on the east side of the property. Agricultural land is located on the southern portion of the property and wooded land on the northern portion of the property	North - Wooded land East - Agricultural land, a residence, and wooded land South - Highway 17 followed by wooded land West - Agricultural land, residences, and wooded land	No
1953	Similar to the 1946 Aerial Photograph, except there appear to be additional structures on the east side of the subject property.	North - Wooded land East - Agricultural land, wooded land, and residences South - Highway 17 followed by wooded land West - Residences, agricultural land, and wooded land	No
1958 and 1960	Similar to the 1953 Aerial photograph, except the school buildings have been removed on the southwest corner of the subject property and some of the residences no longer appear to be on the east side of the property.	North - Wooded land East - Wooded land, agricultural land, and residences South - Highway 17 followed by wooded land West - Residences, agricultural land, and residences	No



Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1968	The subject property contains agricultural structures, agricultural land, and dirt roads running from Highway 17 to the central portion of the property with a round-a-bout.	North - Wooded land East - Agricultural land and residences followed by wooded land South - Highway 17 followed by wooded land West - Residences and wooded land	No
1979	Similar to the 1968 Aerial Photograph, except there are several additional agricultural structures depicted on the property and a small pond appears to the north of the round-a-bout.	North - Wooded land East - Wooded land and residences South - Highway 17 followed by wooded land and a residence West - Wooded land and residences	No
1983 and 1989	The subject property is developed with agricultural land throughout the property, associated agricultural structures on the south side of the property, and a small pond on the northwest side of the subject property.	North - Wooded land East - Wooded land and residences South - Highway 17 followed by wooded land and a residence West - Wooded land and residences	No
1994	Similar to the 1989 Aerial photograph, except a pond appears on the northeast corner of the property.	Similar to the 1989 Aerial Photograph, except properties to the east and west appear to be under development.	No
2005, 2009, 2013, and 2017	The subject property is developed with three agricultural structures on the central portion of the subject property and agricultural land and a lake at the northeast corner of the subject property.	North - Wooded land East - Wooded land and residences South - Highway 17 followed by wooded land and residences West - Jenkins Hill Road followed by residences, wooded land, and ponds	No

6.2 Sanborn Fire Insurance Map Review

In an effort to identify past uses, ECS utilized EDR to search for historical Sanborn Fire Insurance



Maps (Sanborn) for the subject property and surrounding area. Sanborn maps were not available for this area. The absence of such maps generally indicates that the subject property is located in an area where Sanborn maps were not produced because the area was rural or it was not economically feasible. ECS does not expect the lack of Sanborn maps to impact our ability to render a professional opinion concerning the subject property given the amount of historical information obtained from our research, the USGS topographic map, aerial photographs, city directories, and other historical records obtained. A copy of the Unmapped Property report is included within Appendix IV.

6.3 Property Tax Files

Property tax files may include records of past ownership, appraisals, maps, sketches, photos or other information kept by the local jurisdiction for property tax assessment purposes. According to the Charleston County tax assessor on-line information, the subject property is owned by Quarry Lake Plantation, LLC. The subject property is listed as a 107.20-acre parcel with an identification number of 7110000052. Additionally, the Charleston County tax assessor on-line information indicated the subject property was developed with a 576 square foot detached living area constructed in 1971, a 3,024 square foot general purpose building constructed in 1971, a 3,750 square foot general purpose building constructed in 1986, a 2,688 square foot hay storage building, a 1,160 square foot hay storage building, and a 120 square foot utility shed built in 1971.

6.4 Recorded Land Title Records

Recorded land title records may include leases, land contracts, and AULs recorded by the local jurisdiction. Land title records may provide only a list of the names of previous owners and may be of limited use; however, they may provide useful information about uses or occupancy of the property when employed in combination with other sources.

ECS was not provided with Land Title Records. ECS reviewed the following deeds available on the Charleston County Register of Deeds we

- Deed Book 0510, Page 591, dated October 13, 2015. Quarry Lake Plantation, LLC, a South Carolina Limited Liability Company, obtained the property from Juvar, LLC, a South Carolina Limited Liability Company.
- Deed Book C544, Page 845, dated July 7, 2005. Juvar, LLC, a South Carolina limited liability company, obtained the property from Ursula S Kaiser, as a capital contribution to and in return for memberships in Juvar, LLC.
- Deed Book Y393, Page 095, dated December 31, 2001. The Kaiser Company, a South Carolina limited partnership, by Ursula S. Kaiser as President of U.S. Kaiser, LLC obtained the property from Ursula S. Kaiser.
- Deed Book F295, Page 107, dated December 30, 1997. Kaiser Company, a partnership, obtained the property from Robert L. Kaiser, Jr., Ann Marie K. Forsberg, Vincent P. Kaiser, Ursula K. Ferguson, and Jane L. K. Clarkin.

6.5 Historical USGS Topographic Maps

Topographic maps are produced by the United States Geological Survey (USGS) for various time periods. ECS reviewed topographic maps of the subject property and immediately surrounding



properties for evidence of former usage which may indicate potential environmental issues. The topographic maps were obtained from EDR and were dated 1943, 1973, 1992, and 2014. Topographic maps dated prior to 1943 were not available for review. The following is a description of relevant information from the topographic maps:

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1943	Two residences and two buildings apparently associated with St James School appear on the south side of the property, with wooded land and an old railroad grade on the northern portion of the subject property.	North - Steed Creek Swamp East - An unpaved Road South -A primary highway followed by wooded land and residences West- An unpaved road followed by residences	No
1973 and 1992	In addition to the four buildings depicted on the 1943 Topographic Map, six commercial structures and a road with a roundabout are depicted on the central portion of the subject property	North - Steed Creek Swamp East - A commercial building followed by a road South - A primary highway followed by wooded land and a residence West - Residences and commercial buildings	No
2014	Due to the level of detail of the 2014 Topographic Maps, no strucuttres are depicted on the subject property or the surrounding properties. Kaiser Fram road is depicted on the southern portion of the subject property	North - Wooded land East - Wooded land followed by Duffield Road South - Highway 17 followed by wooded land West - Wooded land	No

6.6 City Directory Review

One of the ASTM standard historical sources to be reviewed for previous subject property uses is local street directories, commonly known as City Directories. The purpose of the directory review is to identify past occupants of the subject property, adjoining properties, or nearby properties. In some rural areas, street directories information is limited.

ECS reviewed city directories obtained from EDR. The directories reviewed were dated 1992, 1995, 2000, 2005, 2010, and 2014. The directories reviewed prior to 1992 did not provide listings for the subject property or surrounding area. Directories dated prior to 1992 were not available for review. The subject property address utilized for the research was US Highway 17. A copy of the city directory



report is included in Appendix IV. The following is a description of relevant information from the city directories:

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1992	No Listings	West - Residence (1175 Jenkins Hill Road)	No
1995	No Listings	West - Residences (7743 N Hwy 17, 1161 Jenkins Hill Road, and 1175 Jenkins Hill Road)	No
2000	No Listings	West - Residences (1119, 1169, and 1175 Jenkins Hill Road)	No
2005	Horse Haven Farms (7820 N Hwy 17)	West - Residences (1119 and 1175 Jenkins Hill Road)	No
2010	No Listings	West - (1119, 1131, 1161, and 1175 Jenkins Hill Road)	No
2014	Occupant Unknown, Steven P Tockmakis	West - Residences (1119 and 1175 Jenkins Hill Road)	No

6.7 Building Department Records

The term building department records means those records of the local government indicating permissions of the local government to construct, alter or demolish improvements on the property.

ECS contacted the Charleston County Building Services Department to determine if they had historical information regarding construction dates, inspections, or other information regarding the subject property. A Freedom of Information Act request was submitted to the Building Department on August 20, 2019. No information has been received at the time of the report completion. If information is received that changes the conclusions or recommendations of this report, ECS will forward the information to the Client.

6.8 Zoning/Land Use Records

The term zoning/land use records refers to records of the local government indicating the uses permitted by the government in particular zones within its jurisdictions.

ECS reviewed zoning/land use records obtained from the Charleston County GIS Map. The subject property is currently zoned for agricultural use (AG-10).

6.9 Other Historical Sources

Other credible historical sources may be reviewed to identify past uses of the subject property. These



sources may include websites, county or state road maps, historical society documents, or local library information.

The SC DHEC was contacted to determine if they had historical information regarding environmental issues or responses at the subject property. A Freedom of Information Act request was submitted to the SC DHEC on August 20, 2019. According to the SC DHEC, there were no regulatory files available for review for the subject property.

6.10 Previous Reports

Newkirk Environmental Inc. previously conducted a Phase I Environmental Site Assessment for the subject property in December 14, 2018. The report indicated that the subject property consisted of undeveloped agricultural land with farm buildings. The report did not identify on-site or off-site RECs at the time the Phase I ESA was completed. ECS cannot attest to the accuracy of the information reviewed.

6.11 Historical Use Summary

According to historical research, it appears that the subject property was developed with St. James School on the southwest corner of the property, residences on the southwest and east side of the property and agricultural land from at least the early 1940's through the early 1950's. The school structures and residential structures were removed from the subject property in the early 1950's. From the mid-1950's through present day, the subject property has been utilized for agricultural purposes with varying configurations of associated agricultural outbuildings and a residence on the central portion of the property. Historical records prior to 1941 were not reasonably ascertainable for the subject property.

The subject property was historically and is currently used as agricultural land. Such use of the subject property may have included the storage and use of beneficial agricultural products such as fungicides, herbicides, and/or fertilizers. The legal use (i.e., in accordance with the manufacturers' specifications and customary practices) of such substances, in the course of standard operational practices does not constitute a "release to the environment." Further, reasonably ascertainable information was not observed during the course of our assessment, including historical records review, or field reconnaissance observations regarding current site use and site history, that a past release of such substances had occurred. Therefore, the mere presence of this historical land use does not meet the definition of a REC.

Historical aerial photographs depict apparent residential structures on the subject property that were not located on the subject property during our site reconnaissance. ECS does not have technical evidence how these structures were heated, or if the structures utilized septic tanks or water supply wells. Based on the age, it is possible that the structures were heated with oil stored in USTs. ECS did not observe evidence of USTs, septic tanks, or water supply wells associated with these historic structures during our site reconnaissance. While not considered a REC, if encountered during site development, USTs, septic systems, and water supply wells should be closed in accordance with applicable laws.

Our review of historical information for adjoining or nearby properties identified the area as



originally agricultural and rural that transitioned to residential and rural.

No obvious indications of RECs were identified in the historical data review.



Rice/Kaiser Tract

N HIGHWAY 17 MC CLELLANVILLE, SC 29458

Inquiry Number: 5753289.8

August 16, 2019

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

08/16/19

Site Name:

Client Name:

Rice/Kaiser Tract N HIGHWAY 17 MC CLELLANVILLE, SC 29458 EDR Inquiry # 5753289.8 ECS Southeast, LLP 3820 Faber Place Drive North Charleston, SC 29405 Contact: Nicole Miller



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	<u>Details</u>	Source	
2017	1"=500"	Flight Year: 2017	USDA/NAIP	
2013	1"=500"	Flight Year: 2013	USDA/NAIP	
2009	1"=500"	Flight Year: 2009	USDA/NAIP	
2005	1"=500"	Flight Year: 2005	USDA/NAIP	
1994	1"=750"	Flight Date: February 25, 1994	USGS	
1989	1"=500"	Acquisition Date: February 09, 1989	USGS/DOQQ	
1983	1"=500"	Flight Date: March 22, 1983	USDA	
1979	1"=500"	Flight Date: October 27, 1979	USDA	
1968	1"=500"	Flight Date: April 26, 1968	USGS	
1960	1"=500"	Flight Date: September 14, 1960	USGS	
1958	1"=500"	Flight Date: January 27, 1958	USGS	
1953	1"=500"	Flight Date: March 27, 1953	USDA	
1941	1"=500"	Flight Date: November 03, 1941	USDA	

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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Rice/Kaiser Tract N HIGHWAY 17 MC CLELLANVILLE, SC 29458

Inquiry Number: 5753289.3

August 14, 2019

Certified Sanborn® Map Report



Certified Sanborn® Map Report

08/14/19

Site Name:

Client Name:

Rice/Kaiser Tract N HIGHWAY 17 MC CLELLANVILLE, SC 29458 EDR Inquiry # 5753289.3

ECS Southeast, LLP 3820 Faber Place Drive North Charleston, SC 29405

Contact: Nicole Miller



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by ECS Southeast, LLP were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 543B-44E3-AF30

PO#

Rice/Kaiser Tract

Project

Rice/Kaiser Tract

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library. LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: 543B-44E3-AF30

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

Library of Congress

✓ University Publications of America

✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Rice/Kaiser Tract N HIGHWAY 17 MC CLELLANVILLE, SC 29458

Inquiry Number: 5753289.4

August 14, 2019

EDR Historical Topo Map Report with QuadMatch™





EDR Historical Topo Map Report

08/14/19

Site Name:

Client Name:

Rice/Kaiser Tract N HIGHWAY 17 MC CLELLANVILLE, SC 29458 ECS Southeast, LLP 3820 Faber Place Drive North Charleston, SC 29405

Contact: Nicole Miller

(EI

EDR Inquiry # 5753289.4

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by ECS Southeast, LLP were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Saa	rch	Resu	lte.
Jeal	CII	11630	us.

Coordinates:

P.O.#

Rice/Kaiser Tract

Latitude:

33.043741 33° 2' 37" North

Project:

Rice/Kaiser Tract

Longitude:

-79.59841 -79° 35' 54" West

UTM Zone:

Zone 17 North

UTM X Meters:

630871.39

UTM Y Meters:

3657009.03

Elevation:

18.00' above sea level

Maps Provided:

2014

1992

1973

1943

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2014 Source Sheets



Awendaw

7.5-minute, 24000

1992 Source Sheets



Awendaw

7.5-minute, 24000 Aerial Photo Revised 1973

1973 Source Sheets



Awendaw

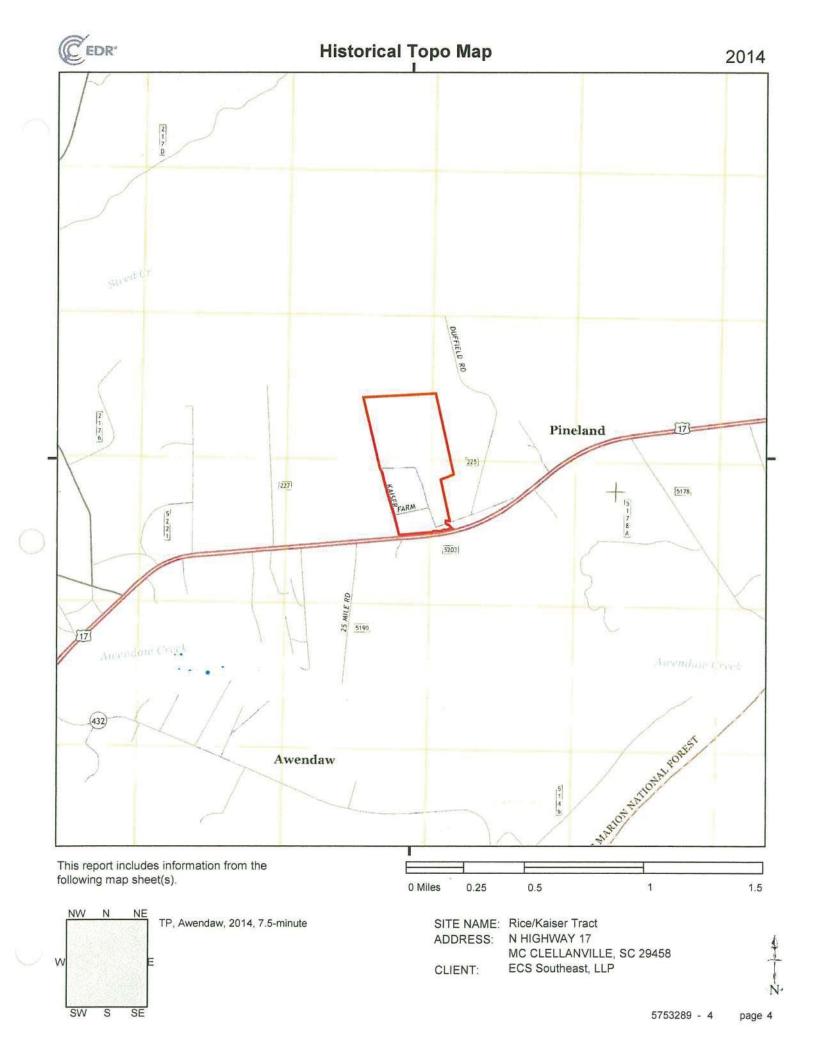
7.5-minute, 24000 Aerial Photo Revised 1973

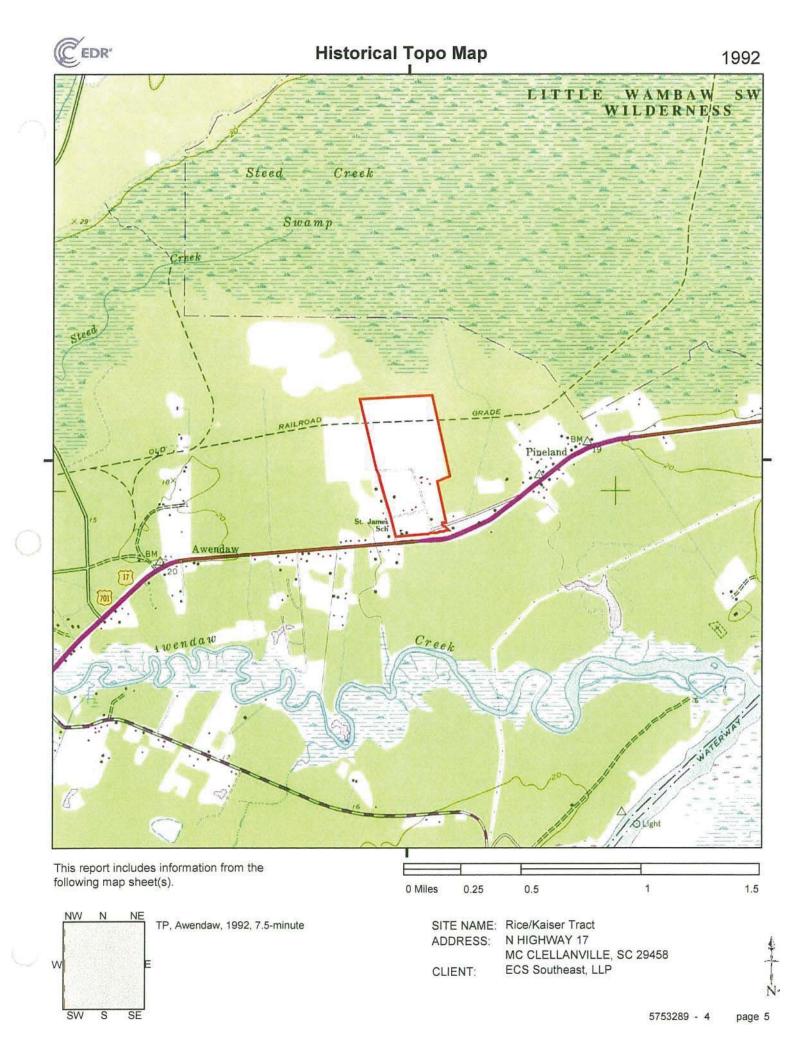
1943 Source Sheets

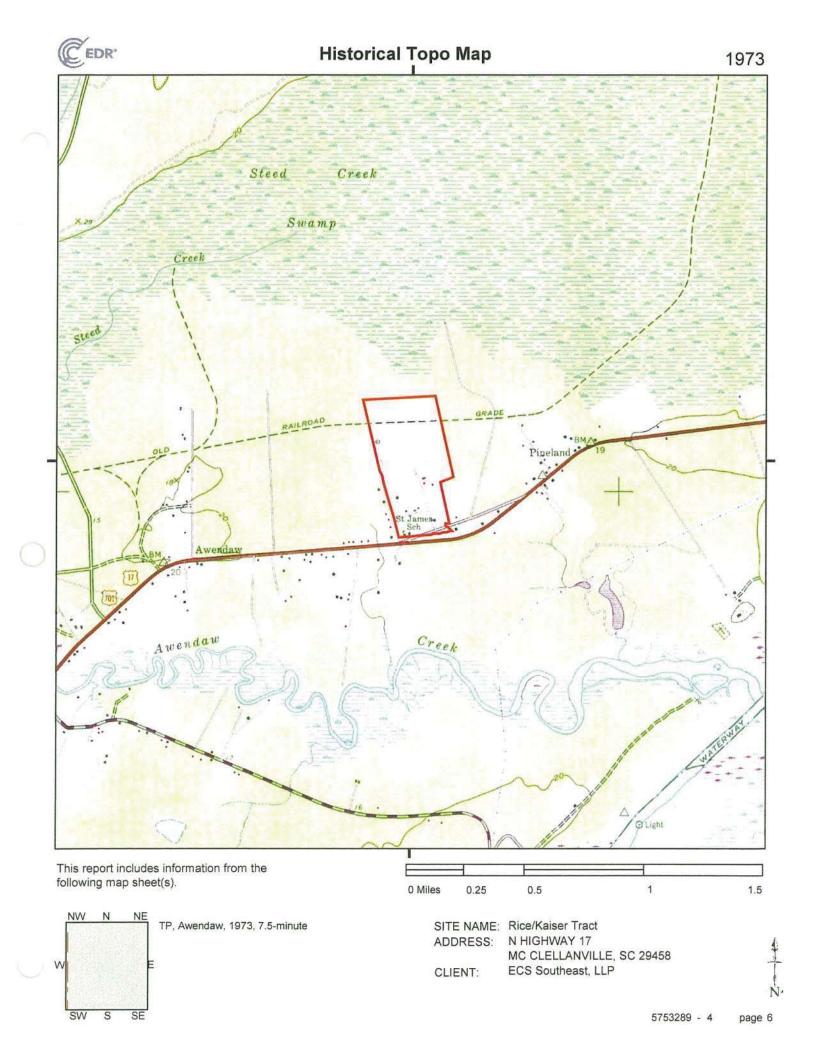


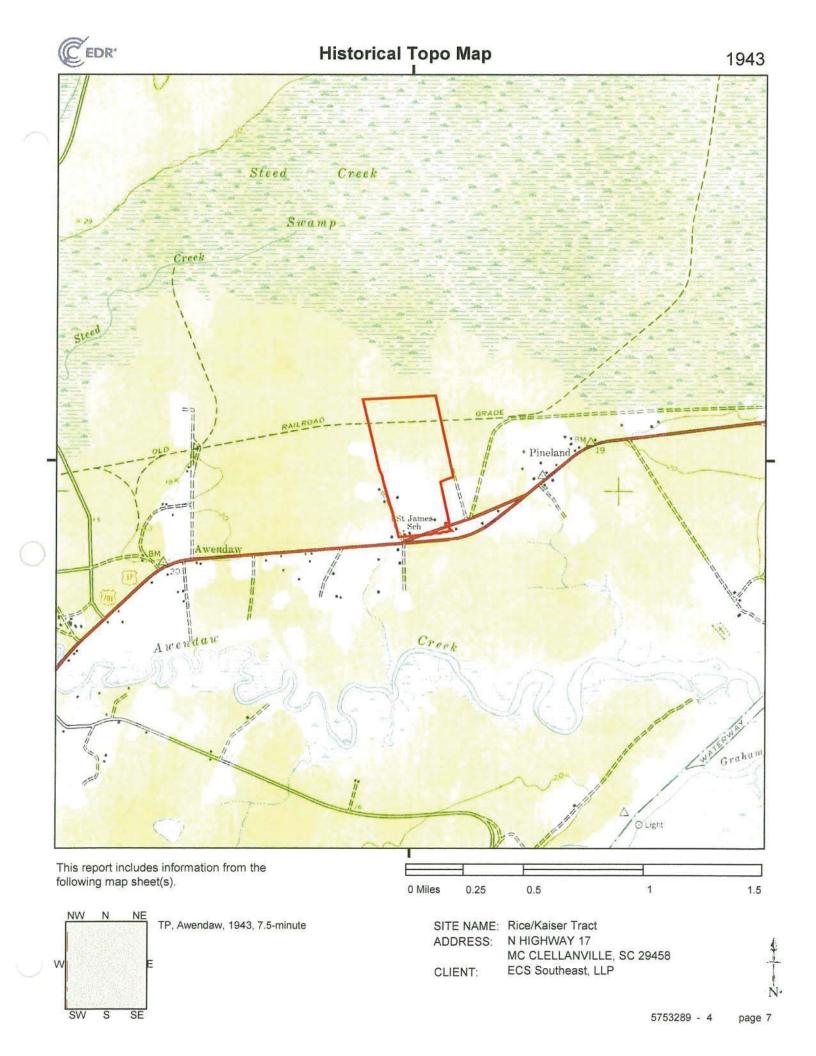
Awendaw

7.5-minute, 24000 Aerial Photo Revised 1942









Rice/Kaiser Tract N HIGHWAY 17 MC CLELLANVILLE, SC 29458

Inquiry Number: 5753289.5

August 19, 2019

The EDR-City Directory Image Report



APPENDIX L: SITE PHOTOGRAPHY



VIEW LOOKING NORTHEAST AT SITE FROM HWY. 17



VIEW LOOKING NORTH AT SITE FROM HWY. 17



3 VIEW LOOKING NORTHWEST AT SITE FROM HWY. 17



4 VIEW LOOKING SOUTHEAST



5 VIEW LOOKING SOUTHWEST



AERIAL OF PROJECT SITE



6 VIEW LOOKING SOUTHWEST





APPENDIX M: LETTERS OF COORDINATION



February 19, 2020

Seamon Whiteside C/o: Preston Busbee 501 Wando Park Boulevard, Suite 200 Mount Pleasant, SC 29464

Re: Power Availability for New School Site Located in McClellanville Charleston County, SC TMS 711-00-00-052

Dear Preston:

Berkeley Electric Cooperative will supply the electrical distribution requirements for the above referenced location. We look forward to extending our facilities to meet the needs of this property.

All services that are rendered will be under our service rules and regulations at the time of service. If you have any questions, please don't hesitate to give me a call.

Sincerely,

Kevin Mims

Supervisor of Distribution Design

Kin Aus

KM/ts

Enclosure

Cc: Thomas Barnette, Manager of Construction and Maintenance Nick VanAllen, Awendaw District Line Superintendent Paul Elsey, Awendaw District Service Planner Preston Busbee, Seamon Whiteside (emailed copy) File

Berkeley Electric Cooperative, Inc. is an equal opportunity provider and employer.



DAVID ABRAMS, JD Director dabrams@charlestoncounty.org Lonnie Hamilton, III Public Services Building 4045 Bridge View Drive, Suite B309 North Charleston, SC 29405-7464

843.202.6700 Fax: 843.202.6712

February 13, 2020

Ms. Anna Lewis Seamon Whiteside 501 Wando Park Blvd. Suite 200 Mount Pleasant, SC 29464

RE: TMS# 710-00-00-052

Dear Ms. Lewis,

The Charleston County Emergency Medical Services (EMS) Department acknowledges your intention to rezone the above referenced properties. Charleston County EMS is the advanced life support paramedic first response and transport agency for this location – and all medical and trauma related incidents will need to be reported to this agency. This can be accomplished through the Charleston County Consolidated Dispatch Center by dialing 911.

EMS staff will be available to attend your scheduled Site Plan Review with Charleston County Planning Staff should our input be needed. If you have any questions or concerns please do not hesitate in contacting me.

Sincerely,

James Ciali Assistant Chief

Preston Busbee

From: Mike S. Bowers < MBowers@charlestoncounty.org>

Sent: Thursday, February 27, 2020 11:55 AM

To: Preston Busbee
Cc: Larry D. Hall

Subject: Re: Letter of coordination

To whom it may concern,

Please allow this e-mail to serve as our (Awendaw-McClellanville Consolidated Fire Protection District) part of the required Letter of Coordination for the project at Hwy 17 and Jenkins Hill Road (Kaiser Farm). We provided Fire and First Responder Medical Response to this property as it is part of our Fire Protection District.

If you have any questions, or concerns, please contact me using the information below.

Michael S. Bowers
C-Shift Battalion Chief
Public Information Officer/Training Officer
Awendaw-McClellanville Consolidated Fire District
6384 Maxville Road
Awendaw, SC 29429
Cell (803) 600-7338
Work (843) 928-3000
Call Sign Battalion 902

"In many cases fires don't kill firefighters, and equipment doesn't save them. Decisions Do"

From: Preston Busbee <PBusbee@SeamonWhiteside.com>

Sent: Thursday, February 27, 2020 10:41 AM

To: Mike S. Bowers < MBowers@charlestoncounty.org>

Subject: RE: Letter of coordination

CAUTION: This email originated outside of Charleston County. Do not click links or open attachments from unknown senders or suspicious emails. If you are not sure, please contact IT helpdesk.

Chief Mike,

Thanks for reaching out.

The specific site is located at Kaiser Farm at TMS 711-00-00-052 and I have attached a location map for reference. The letter would just state that your departments provides fire service for this location.

Thank you and let me know if you have any questions.



Preston Busbee

From: Meekins, David J <MeekinsDJ@scdot.org>
Sent: Wednesday, March 11, 2020 8:39 AM
To: Preston Busbee; JuLeigh Fleming

Cc: Mary Martinich

Subject: RE: District 1 Middle High School (TMS 710-00-00-052) - Proof of Coordination Letter

Preston,

Thank you for providing the conceptual plan for the proposed new Lincoln Middle / High School Campus to be located outside of McClellanville on US 17 near the intersection of Duffield Road. Per our site review on February 4, 2020, and as stated in the subsequent report issued on February 12, 2020, we have assessed potential access locations and necessary roadway improvements to accommodate the additional traffic generated by the school.

Moving forward, SCDOT Headquarters and District Six Traffic Engineering offices will coordinate with your office during the plan phase and will issue a final concurrence once all items are addressed on the plans. Once concurrence has been received, you may initiate the permitting process for work performed on SCDOT maintained roadways. Please be aware that any work performed on Charleston County roadways will require additional coordination with the County regarding any requirements they may have, including their permitting process.

Please let me know if I can be of further assistance.

David J. Meekins
SCDOT - Traffic Engineering
School Operations - Room 217
955 Park Street
Post Office Box 191
Columbia, SC 29201-3959
803-737-1911
Meekinsdj@scdot.org



Safety 1st – Live By It! Let 'em Work, Let 'em Live!

From: Preston Busbee <PBusbee@SeamonWhiteside.com>

Sent: Tuesday, March 10, 2020 4:20 PM

To: Meekins, David J < MeekinsDJ@scdot.org>; Fleming, Juleigh B. < FlemingJB@scdot.org>

2020 SCHOOL SITE INFORMATION

Date Reviewed	2/4/2020
County	Charleston
Location	US 17 & Jenkins Hill Rd (Off-System) with Duffield Rd (Off-System)
School Type	Lincoln Middle & High Schools - Combined Facility
Recommendations	SU

Attending - Rick Holt (Cumming Corp), Eric Aichele (LS3P), Preston Busbee (Seamon Whiteside), Jack Bonnette (OSF), David Meekins (SCDOT)

This property was reviewed for the purpose of constructing a combined Middle and High School facility. The property is located 8 miles west of McClellanville and has approximately 1,185-feet of frontage along US 17 and 1,530-feet along Jenkins Hill Road (Off-System). Proposed student enrollment is 1000 total (500 MS/500 HS) with 250 student parking spaces and 120 staff.

17 occur at the intersections with Jenkins Hill Road and the Kaiser Farm driveway. A conceptual plan illustrated proposed access occurring from Jenkins Hill Road, the Kaiser Farm driveway, and at the end US 17 is a four-lane divided highway (earthen median) with a posted speed limit of 60 MPH and an Annual Average Daily Traffic (AADT) volume of 11,100. Existing left-turn lane provisions at median breaks on of Duffield Road. SCDOT indicated that roadway improvements are necessary and include right-turn lanes at all the proposed access locations, modifications to offset and increase storage of the existing left-turn lanes at Jenkins Hill Road and the Kaiser Farm driveway, and a new offset left turn lane at Duffield Road.

configuration at its intersecting with US 17, consisting of 2-ingress lanes (left/right) and 2-egress lanes (left/right) to accommodate the increase and change in use by school traffic. Since Jenkins Hill Road is an Off-System road, the engineer should contact Charleston County to inquire about any standards and requirements they may have regarding this construction. Jenkins Hill Road is a narrow dirt road that presently serves several residences, therefore, it was indicated that improvements are necessary to widen and pave to a width of 24-feet and include a four-lane

roadway improvements are to be completed prior to the school's opening and the associated costs are the responsibility of the School District. These cost could include additional right-of-way and any above emergency access. Since Jenkins Hill Road is also an Off-System road, the engineer should contact Charleston County to inquire about any guidelines they may have regarding the proposed change in use or below ground utility relocations. Therefore, the School District should anticipate and budget accordingly for these improvements as part of the overall construction costs.

Duffield Road is approximately 18-feet wide and 1,650-feet long that presently serves several residences and dead ends at the east side of the property. It was proposed as low volume use only for staff or

Finally, SCDOT recommended that the architect and engineer hired by the School District work closely with SCDOT's Traffic Engineering Headquarters office in Columbia, SC (David Meekins) on any conceptual site layout. The school site and roadway improvement plans would need to be reviewed and concurred with by SCDOT's Traffic Engineering Headquarters office prior to applying online for an encroachment permit from SCDOT

Office of the Sheriff



County of Charleston

Sheriff J. Al Cannon, Jr.

February 26, 2020

Seamon, Whiteside and Associates, Inc. Attn: Mary Martinich 501 Wando Park Blvd. Suite 200 Mt. Pleasant, SC, 29464

re: Letter of Coordination

Ms. Martinich,

The Charleston County Sheriff's Office acknowledges your intention to develop property located in the area of 1119 Jenkins Hill Road, Awendaw, South Carolina, 29429. This location is currently under the jurisdiction of this agency.

Please understand that *all* law enforcement matters will need to be reported to this agency. This can be accomplished by calling the **Charleston County Consolidated Dispatch Center** at **843-743-7200** or dialing **911 for emergencies**. Additional information can be accessed on our agency website at www.ccso.charlestoncounty.org.

If you have any questions, feel free to contact this office via telephone or by email.

Regards,

Sgt. H. M. Phillips

Sergeant Harold M. Phillips Community Affairs Charleston County Sheriff's Office (843) 529-6221 hphillips@charlestoncounty.org

Judicial Center

Preston Busbee

From: McCall, Danny W - Taylors, SC <dwayne.mccall@usps.gov>

Sent: Monday, January 27, 2020 3:13 PM

To: Preston Busbee

Cc: Nelson, Ronice N - Mcclellanville, SC; McCall, Danny W - Taylors, SC

Subject: RE: District 1 Middle High School Coordination Letter

Mr. Busbee,

Thank you for contacting the US Postal Service. Below is the coordination information requested.

The Postal Service will deliver mail to any customer provided the delivery points meet the following requirements:

- Roads or Streets must be passible.
- Roads or Streets must be non-private.
- Roads or Streets must be properly maintained.
- Mail carriers must not be subjected to loose or feral animals.
- A centralized location must be established to prevent the mail carrier from leaving the conveyance of the vehicle and traveling on foot a long distance. Location must be approved by Local Postal Official.
- The delivery point is established with safety considerations for mail carrier and customer.
- The delivery point offers a means to properly turn around without backing.
- The delivery point must not exceed half mile one way from the mail carrier's previous delivery point.
- The delivery apparatus must be postal approved.
- There must not be any barriers, gates, ravines, ditches or load limited bridges preventing the mail carrier from safely and efficiently conducting mail delivery.

It is highly recommended you or a representative contact the Awendaw/McClellanville Postmaster, Ms. Ronice Nelson, for further dialogue on the selected area and discuss the mode of mail delivery and its location.

Thank you,

Wayne McCall
Operations Programs Support Specialist
Growth Management Coordinator
Greater S.C. District
864-244-1896
803-206-4862

From: Preston Busbee [mailto:PBusbee@SeamonWhiteside.com]

Sent: Monday, January 27, 2020 3:04 PM

To: McCall, Danny W - Taylors, SC <dwayne.mccall@usps.gov>

Cc: Anna Lewis <ALewis@SeamonWhiteside.com>; Betsy Ellingson <BEllingson@SeamonWhiteside.com>; Mary Martinich <MMartinich@seamonwhiteside.com>

Subject: [EXTERNAL] District 1 Middle High School Coordination Letter

Danny,

I hope you are well. We are working on a proposed Middle/High School located in McClellanville off of HWY 17. The site location is known as Kaiser Farm and is located at TMS: 710-00-00-052. I have attached a site location map for your reference.

In order for this project to move forward, we are submitting a Planned Development to Charleston County. As part of the guidelines, the county is asking us to compile Proof of Coordination letters from several different service providers. Can you provided a USPS proof of coordination for this proposed school site.

Thank you for your help.



Preston Busbee Civil Engineering Project Manager (803) 606-4972 cell PBusbee@SeamonWhiteside.com www.seamonwhiteside.com





Steven L. Thigpen, P. E. Director of Public Works

843.202.7600
Fax: 843.202.7601
sthigpen@charlestoncounty.org
Lonnie Hamilton III Public Services Building
4045 Bridge View Drive, Suite A301
North Charleston, SC 29405

February 20, 2020

Ms. Mary Martinich Seamon Whiteside 501 Wando Park Boulevard, Suite 200 Mount Pleasant, SC 29464

RE:

AWENDAW / MCCLELLANVILLE MIDDLE SCHOOL HIGH SCHOOL

PLANNED DEVELOPMENT TMS # 711-00-00-052

Dear Ms. Martinich:

We have reviewed the draft Awendaw / McClellanville Middle School High School Planned Development for construction of an institutional / educational development on Highway 17 at TMS No. 711-00-00-052. At present, this letter represents sufficient coordination with the Public Works Stormwater Division in order to continue the revised planned development rezoning process for the property.

As long as the proposed operations development is in compliance with the Charleston County Stormwater Program Permitting Standards and Procedures Manual you should be able to obtain a permit. Additional review, coordination, and approval by the Public Works Department will be required during the County Stormwater permitting review and process.

Sincerely,

Chris Wannamaker, P.E.

Chow he

Stormwater Program Manager

cc: Niki Grimball - Charleston County Planning Department

APPENDIX N: EXISTING BUILDINGS

Kaiser Farm Structures









Community Meeting Memo

PROJECT NAME: HIGH SCHOOL/MIDDLE SCHOOL IN

AWENDAW PD

PROJECT NUMBER: 8076

PREPARED BY: MEM DATE: 2/27/2020

COMMUNITY MEETINGS HELD FOR THE PD:

1. Community meeting #1

a. Location: St. James Santee Elementary School in Awendaw

b. Date: December 5, 2020

c. 58 Participants

d. Activities: Presentation, Open House, Community Table Programming Game & Feedback

2. Community meeting #2

a. Location: St. James Santee Elementary School in Awendaw

b. Date: January 21, 2020

c. 76 Participants

d. Activities: Presentation, Open House, Community Feedback

3. Community meeting #3

a. Location: Wando Mt. Pleasant Library in Mt. Pleasant

b. Date: January 23, 2020

c. 23 Participants

d. Activities: Presentation, Open House, Community Feedback

See attached presentations and flyers for each community meeting.

CHARLESTON COUNTY SCHOOL DISTRICT

SECOND COMMUNITY MEETING

TOPIC: Next Steps for Planning Development Zoning Process for Future Middle/High School in Awendaw

All Community Members Welcome

Thursday, January 23, 2020 6:00pm-7:00pm Wando Mt. Pleasant Library 1400 Carolina Park Blvd Mt Pleasant, SC 29466

Please visit CCSD's Planning & Real Estate Webpage to review the Powerpoint from the previous meeting.

"Coming together is a beginning. Keeping together is progress. Working together is success." – Henry Ford





CHARLESTON COUNTY SCHOOL DISTRICT

SECOND COMMUNITY MEETING

TOPIC: Next Steps for Planning Development Zoning Process for Future Middle/High School in Awendaw

All Community Members Welcome

Tuesday, January 21, 2020 6:00pm-7:00pm St. James-Santee Elementary 8900 North Hwy 17 McClellanville, SC 29458

Please visit CCSD's Planning & Real Estate Webpage to review the Powerpoint from the previous meeting.

"Coming together is a beginning. Keeping together is progress. Working together is success." – Henry Ford





ZREZ-03-21-00125 **Public Input**

From: <u>wallace.awendaw@tds.net</u>

To: <u>CCPC</u>

Cc: Thomas Colleton; ksalisbury@charlestonconty.org

Subject: Charleston County School Board rezoning

Date: Friday, May 07, 2021 10:23:16 AM

CAUTION: This email originated outside of Charleston County. Do not click links or open attachments from unknown senders or suspicious emails. If you are not sure, please contact IT helpdesk.

The Town of Awendaw is opposed to the application ZREZ-03-21-00125 to rezone TMS 711-00-00-052 from AG-10 to PD-181. This is a very poor location for a new school facility. It is an isolated site that does not contribute to the citizen's needs in Awendaw or McClellanville. A school is not merely a box to place children in for a few hours a day. It must fit into the long range plans of the surrounding communities. The Town continues to believe that a site near the intersection of Seewee Road and N. Highway 17 is a much better location. We feel that the School Board has not made a reasonable effort to consider that site. Water and sewer are available at that location and not at the proposed rezoning site. The majority of students to be attend the new high school would live near that site and could bike or walk to school on the Town's proposed East Coast Greenway which would run through that location. The CCSD proposed location in not near any existing or proposed residential areas large enough to provide an adequate number of students. Every student would have to travel several miles by car or bus to reach the school. Please consider the overall impact on the community to be served and not just the ease of development on the proposed CCSD site. Thank you for your consideration of our position.

--

Bill Wallace, FAICP Town of Awendaw Administrator 843.928.3100

Mayor Rutledge B. Leland, III

Town Council Aaron L. Baldwin Christopher B. Bates Robert J. Gannon James E. Scott

Phone: (843) 887-3712

405 Pinkney Street McClellanville, SC 29458

Town Administrator Michelle A. McClellan

Zoning Administrator Kathryn S. Basha

Fax: (843) 887-3094

Friday, June 04, 2021

Charleston County Council 4045 Bridge View Drive N. Charleston, SC 29405

Dear Council Members:

I am writing to express support of Charleston County School District's request to rezone TMS 711-00-00-052 (Kaiser Farm Tract) located at 7820 N. Highway 17 from the Agricultural Preservation 10 Zoning District to the Planed Development, PD-176, High School/Middle School in Awendaw Zoning District.

The location of the proposed school is within a reasonable driving distance to the Town of McClellanville and we feel that having a school at this location would be a positive step for the future as growth in the McClellanville area continues to rise.

McClellanville Town Council supports the School District's application to rezone the Kaiser Farm Tract to Planned Development. Please do not hesitate to contact me if you have any questions. Thank you for your time and consideration.

Sincerely,

Rutledge B. Leland III, Mayor

Rut/B Lellen

Town of McClellanville

 From:
 chyrel57

 To:
 CCPC

 Subject:
 Rezoning of TMS 711 00 00 052

 Date:
 Saturday, May 15, 2021 1:22:30 PM

CAUTION: This email originated outside of Charleston County. Do not click links or open attachments from unknown senders or suspicious emails. If you are not sure, please contact IT helpdesk.

I am a longtime resident of this area born and raised. The zone in which you want to use is far to close to the homes of alot of the area's older people that's resided here in this area for many many years. And to have a school in the area that close to homes will be by far way to much Noise!!. This area has always been a peaceful place to live, now you're wanting to put a school there would definitely be disruptive, not to mention that you'd also be disturbing the wildlife that surrounds this area. With all of the building going on around us now..you've already managed to migrated animals into our area that's always been & stayed away from humans but now they have no other choice but to roam, and find their way into our yards.

It seems that you are more Interested in making money than showing concerns about people in the rural areas. We all live in the COUNTRY for a reason and really don't want our area to become overwhelmed as Mt.Pleasants' become(Not to mention the TRAFFIC).Please don't get me wrong, I am all for change but our neighborhood is just as we've lived, loved & enjoyed this long and totally enjoying our Peacefulness. Please do take that into consideration!!!

I thank you for giving me this chance to voice my thoughts and opinions! Out Here its called the COUNTRY for a PEACEFUL REASON. Thank You again. --Chyrel A. Jenkins

Sent via the Samsung Galaxy S7 edge, an AT&T 4G LTE smartphone