

Post & Courier

CHARLESTON COUNTY COUNCIL COMPREHENSIVE PLAN, ZONING AND LAND DEVELOPMENT REGULATIONS ORDINANCE (ZLDR), AND ZONING MAP AMENDMENT PUBLIC HEARING

Tuesday, July 14, 2020 at 6:30 PM

Charleston County Council will hold a public hearing on the matters listed below beginning at 6:30 p.m., Tuesday, July 14, 2020, in Council Chambers (second floor of the Lonnie Hamilton, III, Public Services Building, located at: 4045 Bridge View Drive, North Charleston, SC 29405). The complete agenda can be found online at: <https://www.charlestoncounty.org/departments/zoning-planning/>. The meeting will be livestreamed at: <https://www.charlestoncounty.org/departments/county-council/cctv.php>. Written public comments may be emailed to CCPC@charlestoncounty.org or mailed to the address listed above by noon on Tuesday, July 14. Contact the Zoning and Planning Department at (843)202-7200 or CCPC@charlestoncounty.org for additional information.

- a. ZREZ-02-20-00114: 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-176, High School/Middle School in Awendaw, Zoning District.
- b. ZREZ-02-20-00115: Request to rezone TMS 390-00-00-072, located at 9576 Koester Road (Ladson area) from the Single Family Residential 4 (R-4) Zoning District to the Community Commercial (CC) Zoning District.
- c. ACP-02-20-00117 & ZLDR-02-20-00121: Request to amend the zoning and future land use designation in the Parkers Ferry Overlay Zoning District in the Comprehensive Plan and the ZLDR, from the Residential Area to the Commercial Area for TMS 121-00-00-051, located at 7662 Savannah Hwy (Adams Run area).
- d. ACP-05-20-00119 & ZLDR-05-20-00122: Request to amend the zoning and future land use designation in the Parkers Ferry Overlay Zoning District in the Comprehensive Plan and the ZLDR, from the Residential Area to the Commercial Area for TMS 121-00-00-047 located at Savannah Hwy (Adams Run area).

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

ZONING MAP AMENDMENT REQUEST:

ZREZ-02-20-00114

- Case History
- Presentation
- PD Documents
- Application
- Community Meeting Presentation
- Public Input

High School/ Middle School in Awendaw

PD-176: ZREZ-02-20-00114

Case History

Planning Commission: June 22, 2020

Public Hearing: July 14, 2020

Planning and Public Works Committee: August 6, 2020

First Reading: August 11, 2020

Second Reading: September 8, 2020

Third Reading: September 22, 2020

CASE INFORMATION

Applicant: Mary Martinich, Seamon Whiteside

Owner: Quarry Lake Plantation LLC

Location: 7820 N Highway 17

Parcel Identification: 711-00-00-052

Application: 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-176, 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 Preservation District (AG-10) on the 1994 Tax Maps, and there have been no previous rezoning requests for this parcel.

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-176, High School/ Middle School in Awendaw. Specifically, PD-176 requests the following:

- One academic building, maximum of 255,000 square feet;
- 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;
 - 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*:
 - 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.

Municipalities Notified/Response: 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;

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.*

Because the Planned Development application meets all of the criteria of Section §4.23.9 E (9), staff recommends approval.

PLANNING COMMISSION MEETING: June 22, 2020

Recommendation: Approval with one condition (8-0) with 1 absent.

Condition of Approval: 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.

Notifications: 155 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 June 5, 2020. Additionally, this request was noticed in the *Post & Courier* on June 5, 2020.

Public Input: One letter of opposition from the Town of Awendaw was received.

Speakers: The applicant, and a member of the public, spoke in support of the application.

PUBLIC HEARING: JULY 14, 2020

Notifications: 155 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 June 26, 2020. Additionally, this request was noticed in the *Post & Courier* on June 12, 2020.

Speakers: Lee Gastley, with Seamon Whiteside, spoke in support of the application.

PLANNING AND PUBLIC WORKS COMMITTEE: AUGUST 6, 2020

Public Input: One letter of support from the Town of McClellanville was received.



Charleston County Planned Development Zoning Map Amendment Request

PPW Committee – August 6, 2020

1st Reading – August 11, 2020

2nd Reading – September 8, 2020

3rd Reading – September 22, 2020

ZREZ-02-20-00114

PD-176: High School/ Middle School in Awendaw

- East County Area: 7820 N Highway 17
- Parcel I.D.: 711-00-00-052
- Owner: Quarry Lake Plantation LLC
- Applicant: Seamon Whiteside
- Property Size: 107.2 acres
- Council District: 2 - Schweers

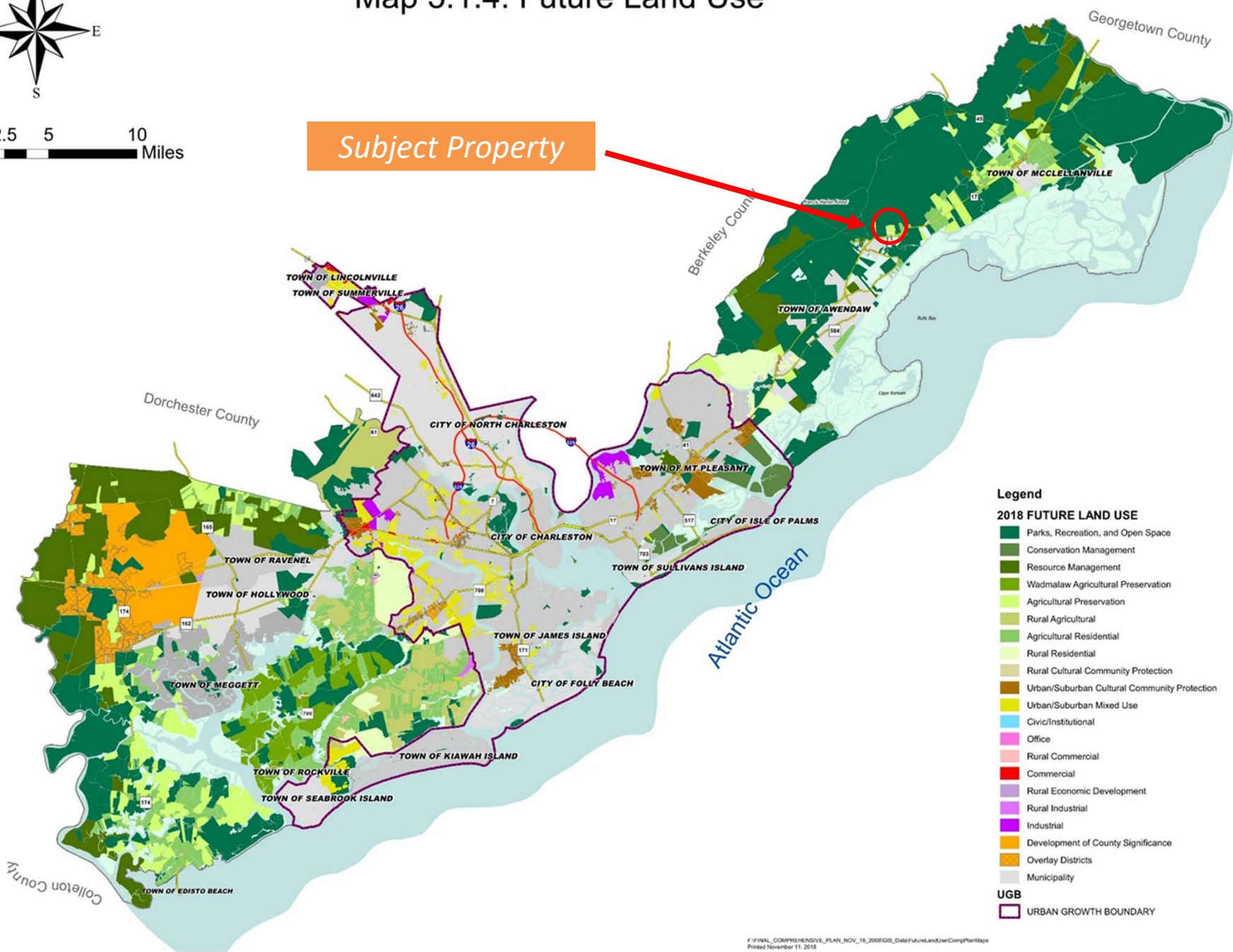
Zoning History

- The subject property was zoned Agricultural Preservation District (AG-10) on the 1994 Tax Maps
- There have been no previous rezoning requests for this parcel

Map 3.1.4: Future Land Use

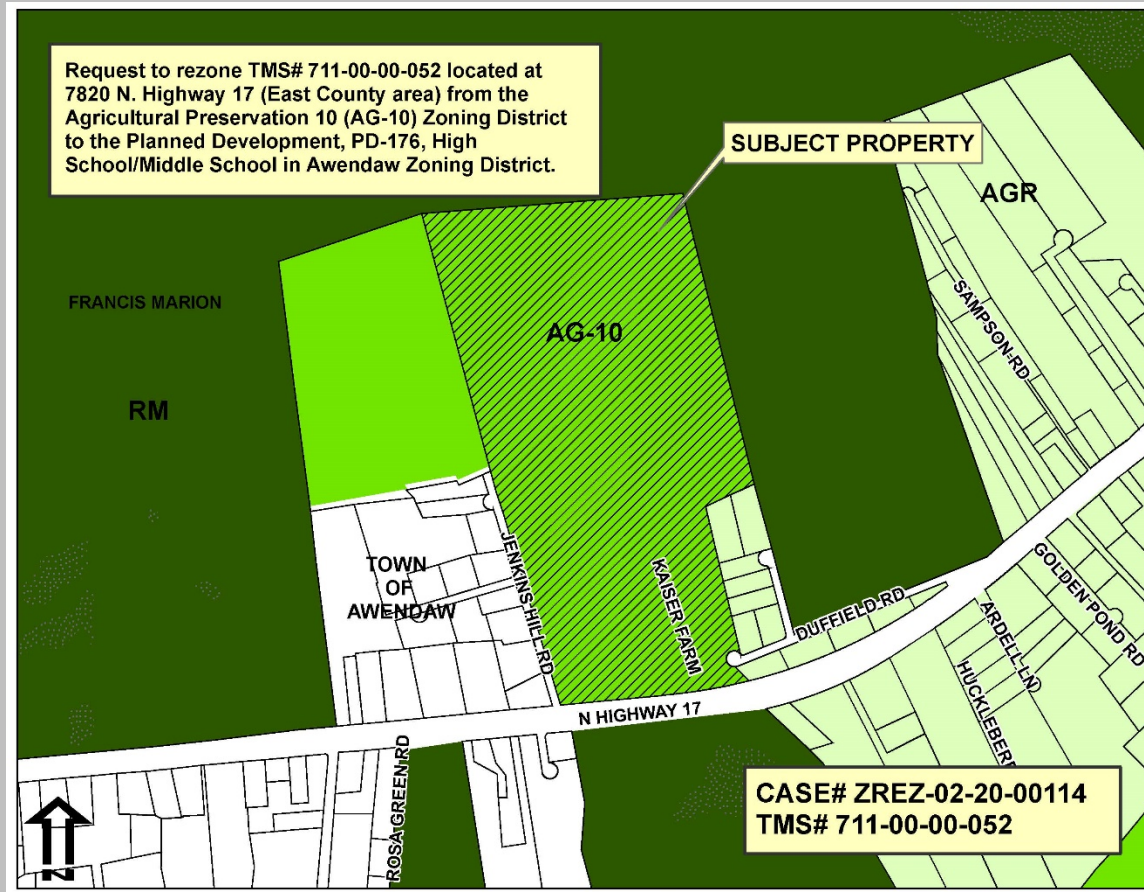


Subject Property



- Legend**
- 2018 FUTURE LAND USE**
- Parks, Recreation, and Open Space
 - Conservation Management
 - Resource Management
 - Wadmalaw Agricultural Preservation
 - Agricultural Preservation
 - Rural Agricultural
 - Agricultural Residential
 - Rural Residential
 - Rural Cultural Community Protection
 - Urban/Suburban Cultural Community Protection
 - Urban/Suburban Mixed Use
 - Civic/Institutional
 - Office
 - Rural Commercial
 - Commercial
 - Rural Economic Development
 - Rural Industrial
 - Industrial
 - Development of County Significance
 - Overlay Districts
 - Municipality
- UGB**
- URBAN GROWTH BOUNDARY

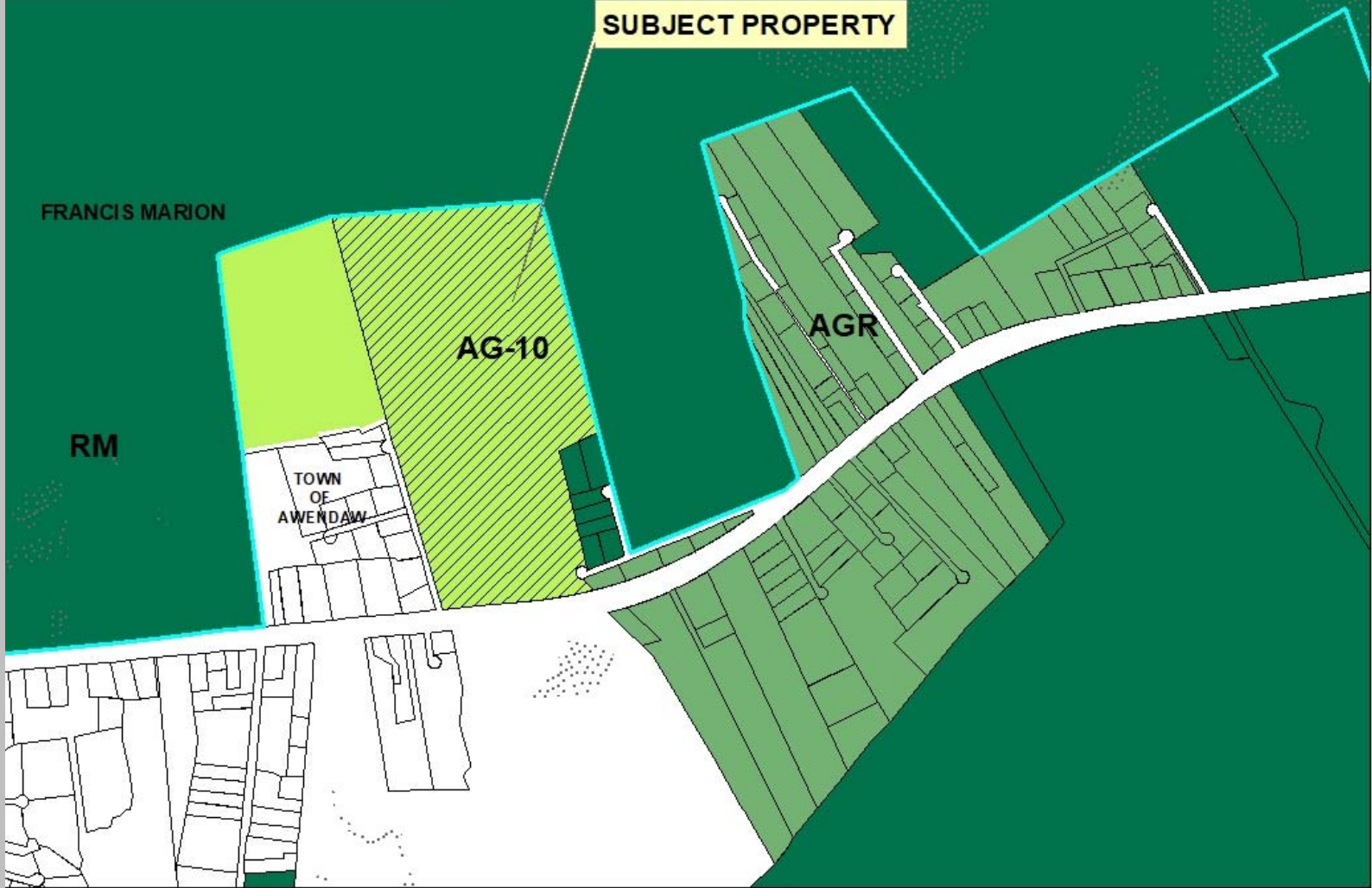
Current Zoning



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. Property to the South, across N Highway 17, is zoned Resource Management (RM) and is undeveloped.

Future Land Use Designation

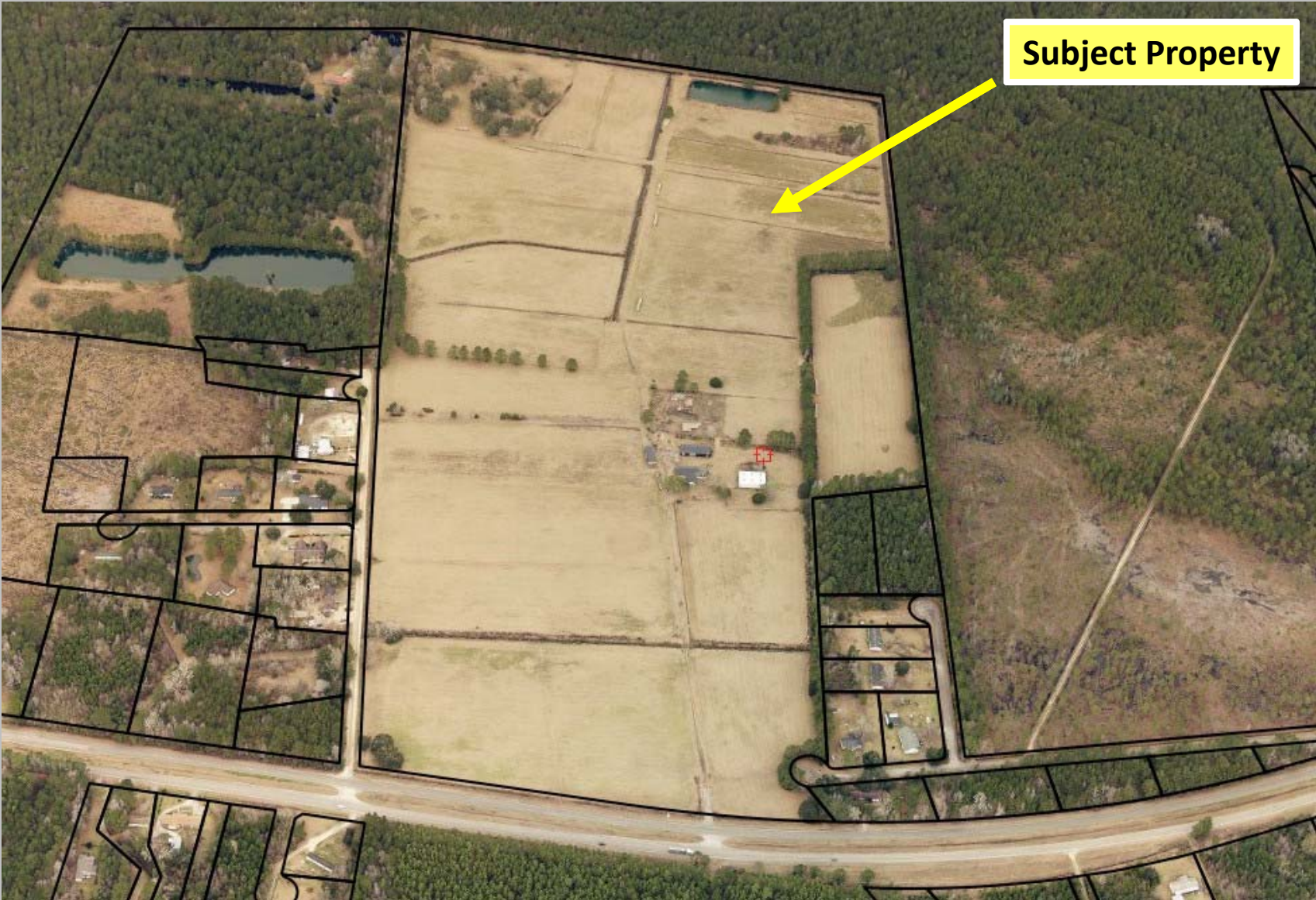
FUTURE LAND USE
CASE# ZREZ-02-20-00114
TMS# 711-00-00-052



Aerial View to the West



Aerial View to the North



Subject Property

Site Photos



1 – Subject Property

2 – Adjacent Property



Site Photos



3 – Subject Property

4 – Subject Property



Requested PD Guidelines

The applicant requests to rezone from Agricultural Preservation District (AG-10) to PD-176, High School/ Middle School in Awendaw. Specifically, PD-176 requests the following:

- One academic building, maximum of 255,000 square feet
- 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
- 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

Requested PD Guidelines Cont'd

- 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



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

STAFF RECOMMENDATION: APPROVAL

The requested PD amendment is consistent with the Charleston County Zoning and Land Development Regulations Ordinance (ZLDR).

**PLANNING COMMISSION RECOMMENDATION:
*APPROVAL WITH ONE CONDITION (8-0, 1 absent)***

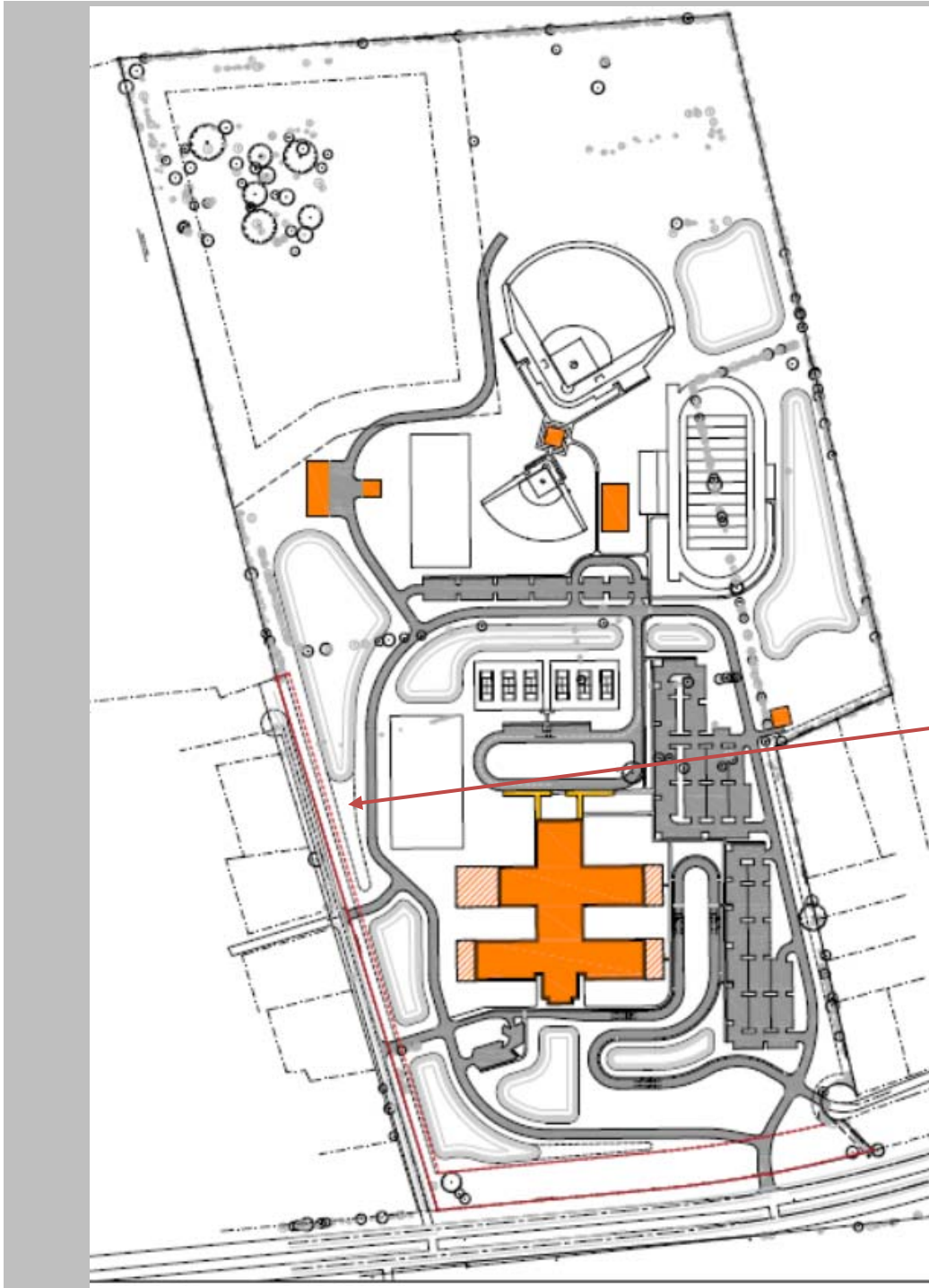
Condition of Approval: During Site Plan Review, the applicant and staff shall work to maximize the size of the buffer beyond 25 feet at James Turner and Jenkins Hill Roads.

Condition of Approval

The applicant has worked with staff to specify the following in reference to the PC condition to provide additional noise and visual screening for the existing residents living along these roads:

Show a 35' Type S-3 buffer with 3-6' berms in the area at James Turner and Jenkins Hill Roads.

Staff recommends acceptance of this condition as clarification to the existing PC recommended condition of approval.



**Site Plan
showing area of
35' buffer
indicated in red**

Public Input

1 letter of opposition from Bill Wallace, Town Administrator of the Town of Awendaw

1 letter of support from Rutledge Leland, Mayor for the Town of McClellanville

Notifications

June 5, 2020 – Planning Commission Notifications

- 155 notifications 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 advertised in the *Post & Courier*

June 12, 2020 – Public Hearing Notifications

- Public Hearing request advertised in the *Post & Courier*

June 26, 2020 – Public Hearing Notifications

- 155 notifications 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



Charleston County Planned Development Zoning Map Amendment Request

PPW Committee – August 6, 2020

1st Reading – August 11, 2020

2nd Reading – September 8, 2020

3rd Reading – September 22, 2020

PD GUIDELINES

High School / Middle School in Awendaw

Charleston County, South Carolina

TMS711-00-00-052

2/28/2020



PD Prepared for:

Charleston County School District

Prepared By/Applicant:

SW SEAMONWHITESIDE

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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- 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

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. Any modifications to the site plan shall be approved at staff level.

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:
 - a. Educational and recreational facilities are accessible to residents of the area and of Charleston County.
 - b. 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:
 - a. 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:
 - a. Development of the school, including utilities will occur in areas already cleared of vegetation, minimizing the need for tree removal.
 - b. Quality open spaces and sports/recreation fields are provided for the school and community.
 - c. 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.

- E. The permanent preservation of common open space, recreation areas and facilities:
 - a. 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:
- a. 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.
 - b. 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:
- a. 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 in Awendaw, South Carolina. Access to the property is provided by U.S. Highway 17 and three roads. Unimproved Kaiser Farm Road connects internal to the property, Jenkins Hill Road is adjacent to the site along the west side and Duffield Road 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:

- School Buildings:
 - One main academic building (+/- 255,000 sf).
 - 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 (+/- 9,000 sf).

- The exact number of buildings will be determined during programming and the design phase of the project.
- The total building area is equal to +/- 279,500 sf., which is a maximum floor area ratio and lot coverage of +/- 5.9-percent.
- 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.
- Roads: Impact to existing roads will be affected by the development.
- Parking: Paved parking will be provided for allowed facilities based on ZLDR requirements.
- Athletic Fields: One football field, one practice field, middle school multi-use field, one baseball field, one softball field and bleachers are anticipated.
- Paved Track
- Tennis Courts (6)
- 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

- i. Water: A well to be dug onsite will provide potable water for the schools and associated recreational facilities on the site.
- ii. 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.
- iii. Electrical: Power will be provided to the site from existing overhead electric lines located along the north side of Highway 17.

b. Traffic Study

- i. 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.”

c. Emergency Services

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

d. Drainage

- i. 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.
- ii. 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.

- iii. The maintenance of all stormwater devices, structures, and facilities will be the responsibility of the Developer and/or Property Owner's Association. 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

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

7. Development Schedule

- i. 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.
- ii. The site will remain in its natural state until it is developed.
- iii. If phasing is to occur, it will be determined during the design phase.

8. Open Space

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

9. Streets

- i. 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

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, specifically Chapters 4,6,8,9 and 12 in effect at the time of the subsequent application submittal.

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.

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.

This Planned Development intends to meet the criteria listed in Chapter 4, Article, 4.23 of the Charleston County Zoning and Land Development Regulations Ordinance (ZLDR).

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.

Administration and enforcement of the Planned Development Guidelines shall follow the Charleston County Zoning and Land Development Regulations Ordinance (ZLDR).

This PD complies with the approval criteria contained in Section 4.23.9(E)(9) and as stated below:

- The PD complies with the standards contained in Article 4.23 PD, Planned Development.
- See “Intent and Results of Proposed PD” section for more information.
- See the “Letters of Coordination” 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.

11. Historical and Archaeological Survey

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

12. Letters of Coordination

- i. See Appendix M.

13. Dimensional Standards (*Note: No residential uses are proposed for this PD.)

- i. Dimensional standards shall comply with AG-10 density standards of the ZLDR in effect at time of subsequent application development submittal if the property is not developed as a school.
- ii. The Dimensional Standards Table setbacks do not apply to storage and ancillary buildings however, these buildings shall be placed outside of required buffers.

DENSITY/INTENSITY AND DIMENSIONAL STANDARDS TABLE	
MINIMUM SETBACKS (SCHOOL BUILDING)	
FRONT/STREET SIDE	100'
INTERIOR SIDE	100'
REAR	100'
MINIMUM BUFFERS	
HWY 17	100' S3
NORTH SIDE (RM-FOREST)	0'
EAST SIDE (RM-FOREST)	0'
EAST SIDE (AGR-RESID.)	25' TYPE B
WEST SIDE (AG-10)	0'
JENKINS HILL ROAD	25' S2
MAXIMUM HEIGHT	
HEIGHT	50' (SCHOOL) & 35' (ALL OTHER USES)

14. Architectural Guidelines

- i. Architectural design for the school will reflect the local rural character. See Appendix F for a conceptual plan for the school.
- ii. Architectural standards shall comply with Article 9.6 of the Charleston County Zoning and Land Development Regulations Ordinance (ZLDR).
- iii. 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

- i. No individual lots are planned for this site.

16. Access

- i. 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.
- ii. 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

- i. There are no commercial areas associated with this PD.

18. Industrial Areas

- i. There are no industrial areas associated with this PD.

19. Areas Designated for Future Use

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

20. Signs and Lighting

- i. One monument style, externally lit, free standing sign that complies with the requirements of ZLDR Art. 9.11 Signs, will be provided to address Highway 17 with secondary signage addressing the entrance along Jenkins Hill Road. Only directional signage shall be allowed internal to the site and shall comply with ZLDR Article 9.11.
- ii. 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.
- iii. All site lighting shall comply with Article 9.6.4.C. of the ZLDR.

- iv. 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.

21. Parking

- i. 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.
- ii. Parking shall comply with Article 9.3 of the ZLDR.

22. Tree Protection

- i. 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

- i. 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.
- ii. 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

- i. Landscaping shall meet or exceed regulations outlined in Article 9.5 Landscaping, Screening and Buffers of the ZLDR.
- ii. As illustrated on the Aerial Conceptual Sketch Plan, in Appendix D, proposed Common Open Space will include +/-76 acres, or approximately +/-71% of the overall +/-107.2 acres. Areas include all athletic fields and recreational structures, and septic drip field with surrounding 100' buffer. It does not include any new constructed ponds, landscape buffers, or any open areas around the new school building or parking.
- iii. 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.

APPENDIX A:

**SITE LOCATION MAP
& CURRENT AERIAL**

Francis Marion National Forest

PROJECT SITE
AG - 10
+/-107.2 ac.

Jenkins-Hill Rd

Kaiser Farm

Duffield Rd

Hwy. 17

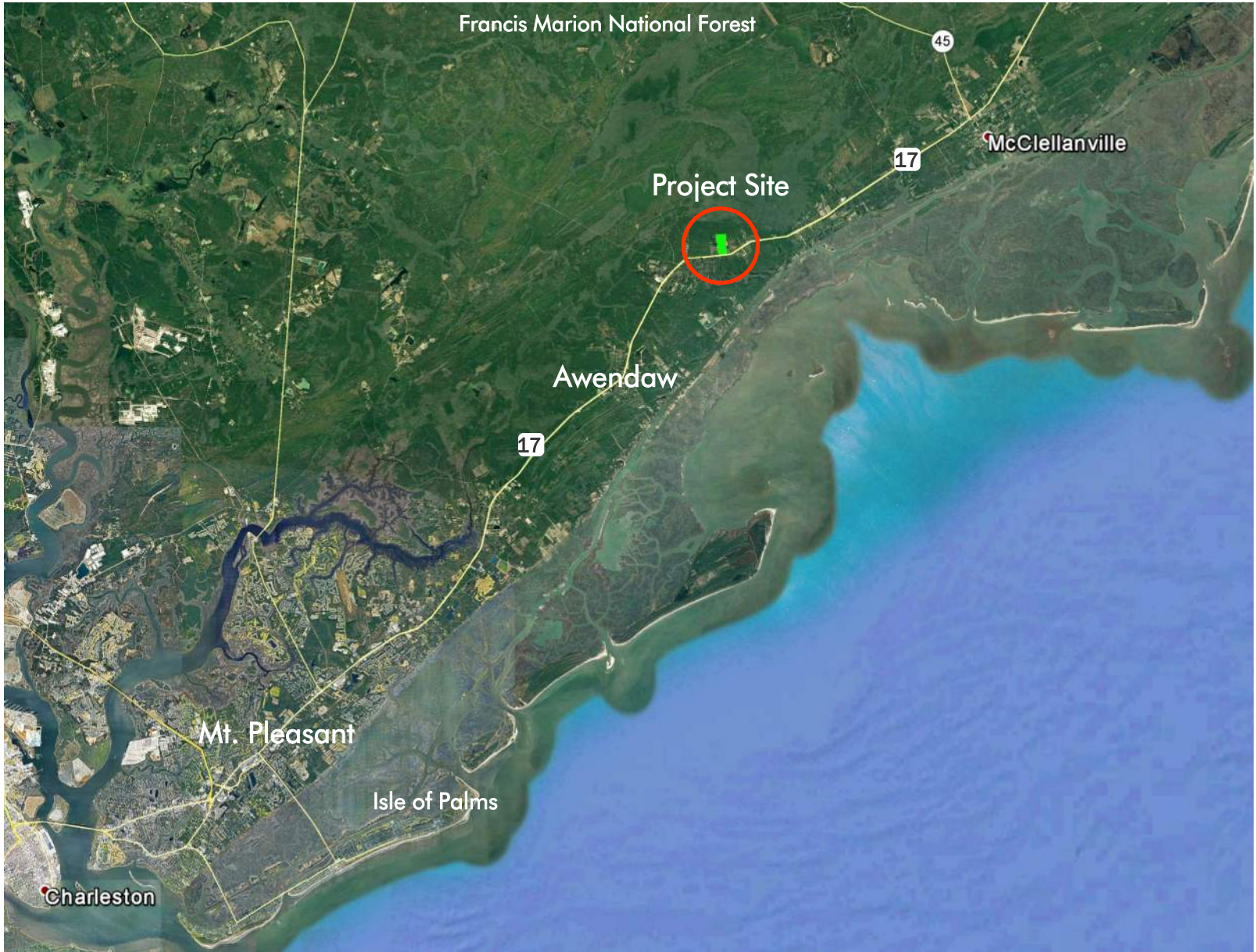
Sam Thompson Dr

25-Mile Rd



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





Francis Marion National Forest

45

McClellanville

17

Project Site



Awendaw

17

Mt. Pleasant

Isle of Palms

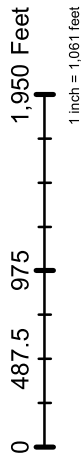
Charleston

APPENDIX B:

**TAX MAP
& EXISTING LAND USE MAP**



kaiser tract

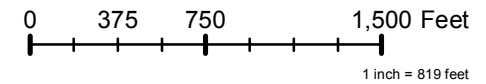


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Author: Charleston County SC
Date: 2/18/2019



Charleston County SC



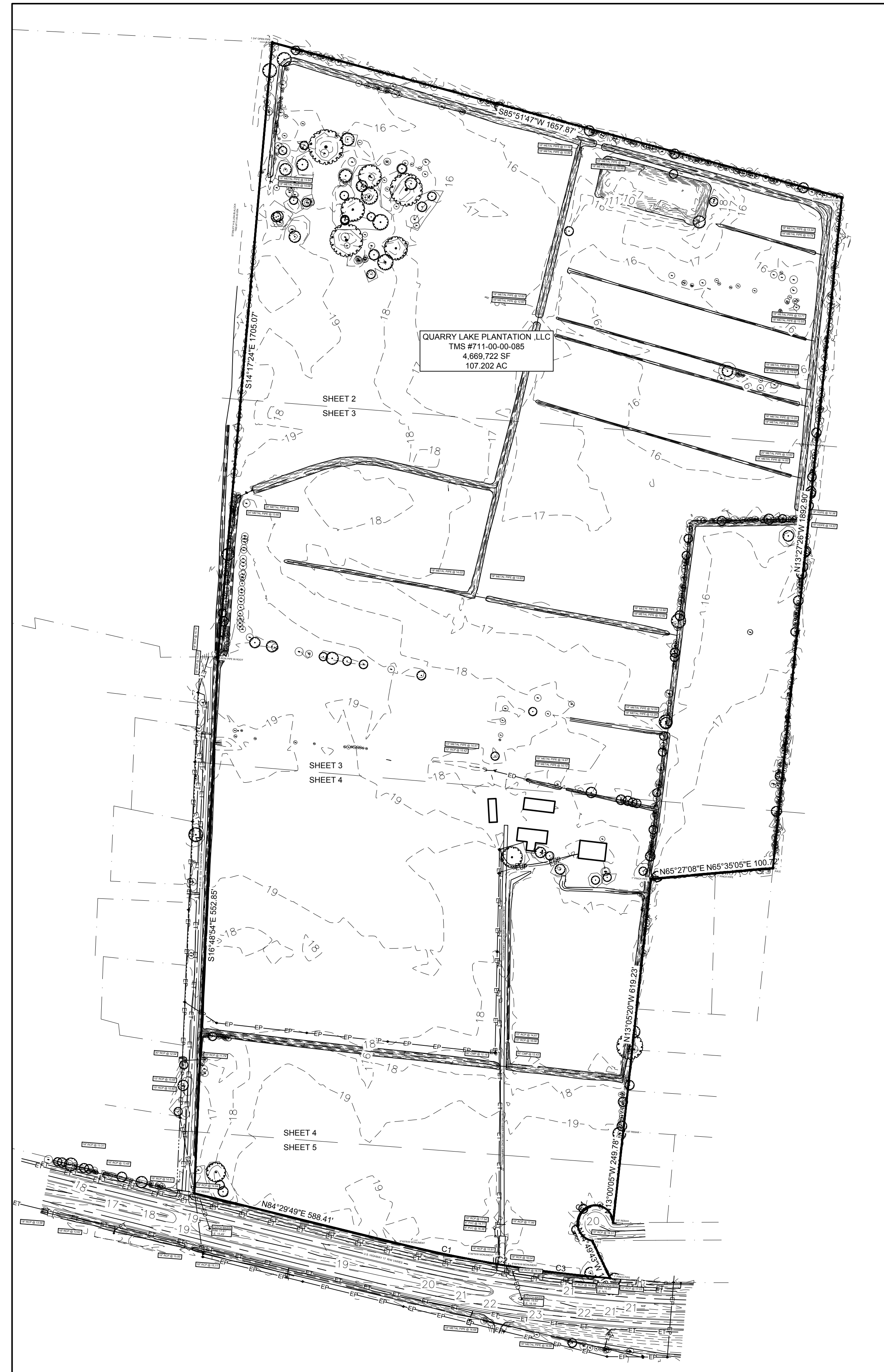
Note: The Charleston County makes every effort possible to produce the most accurate information. The layers contained in the map service are for information purposes only. The Charleston County makes no warranty, express or implied, nor any guaranty as to the content, sequence, accuracy, timeliness 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.

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

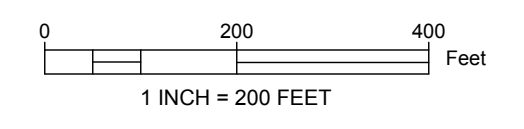
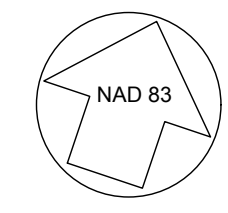
APPENDIX C:
AS-BUILT SURVEY/ TREE SURVEY



VICINITY MAP: NOT TO SCALE



QUARRY LAKE PLANTATION, LLC
TMS #711-00-00-085
4,669,722 SF
107,202 AC



- | LEGEND | | LEGEND | |
|--------|-------------------------------------|-----------|------------------------|
| ● | PROPERTY CORNER FOUND, AS DESCRIBED | — | PROPERTY LINE |
| ○ | PROPERTY CORNER, SET | - - - | ADJACENT PROPERTY LINE |
| ● | POWER POLE | —EP—EP— | OVERHEAD POWER LINE |
| □ | ELECTRIC BOX | —EUP—EUP— | UNDERGROUND POWER LINE |
| ○ | TELEPHONE PEDISTOOL | —ET—ET— | TELEPHONE LINE |
| ○ | TREE, AS DESCRIBED | —ED—ED— | STORM DRAINAGE LINE |
| ○ | GRAND TREE, AS DESCRIBED (24" +) | —EG—EG— | GAS LINE |

REFERENCES

PLAT BOOK	PAGE
BW	198
CO	119
S18	0245
BW	4
N	160
O	94

DEED BOOK	PAGE
R186	275
G180	564

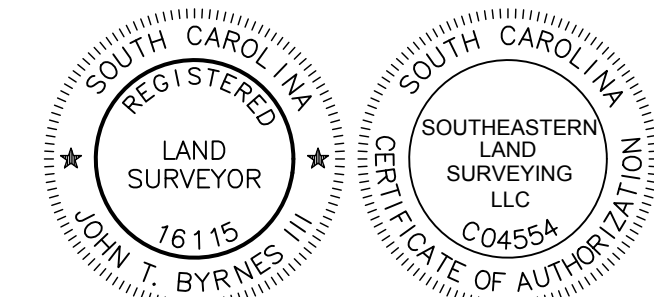
SC DOT DOCKET NO. 10.743
SHEET 30-31

- NOTES:
1. ANYTHING SHOWN OUTSIDE THE DEFINED BOUNDARY OF THIS PLAT IS FOR DESCRIPTIVE PURPOSES ONLY.
 2. AREA DETERMINED BY COORDINATE (DMD) METHOD.
 3. THE PUBLIC RECORDS REFERENCED ON THIS PLAT ARE ONLY THOSE USED AND NECESSARY FOR THE ESTABLISHMENT OF THE BOUNDARY OF THIS PROPERTY. THEY ARE NOT AND DO NOT CONSTITUTE A TITLE SEARCH.
 4. THE PROPERTY IS LOCATED IN FLOOD ZONE X AS SCALED FROM F.I.R.M. PANEL NO. 45019C0190J, REVISED NOV. 17, 2004.
 5. THE LOCATION OF OBVIOUS, ACCESSIBLE UTILITIES WERE PHYSICALLY SURVEYED. UNDERGROUND, INACCESSIBLE UTILITIES ARE SHOWN IN AN APPROXIMATE LOCATION ONLY.
 6. COORDINATES ARE BASED ON SOUTH CAROLINA STATE PLANE (NAD 83).
 7. ELEVATIONS ARE BASED ON NGVD 1929.
 8. WETLANDS WERE NOT SURVEYED FOR THIS BOUNDARY.
 9. EASEMENTS MAY EXIST OUTSIDE THE KNOWLEDGE OF THE SURVEYOR WHICH WERE NOT SHOWN ON THE REFERENCE PLATS.

* BENCHMARK INFORMATION
CONTACT: MICHAEL SCHMIEDER
SOUTHEASTERN LAND SURVEYING, LLC
843-795-9330

PARCEL CURVE TABLE					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C1	272.76	3769.72	004.1457	N82°30'05"E	272.70
C2	19.60	3769.72	000.2980	N80°11'39"E	19.60
C3	281.36	3769.72	004.2764	N77°25'37"E	281.88
C4	225.76	50.00	258.6943	N29°31'18"E	77.33

I HEREBY STATE TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE SURVEY SHOWN HEREON WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARDS OF PRACTICE MANUAL FOR LAND SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS "A" SURVEY AS SPECIFIED THEREIN.



NO.	DATE	DESCRIPTION	BY

SOUTHEASTERN LAND SURVEYING LLC
1035-B JENKINS ROAD
CHARLESTON, SC 29407
(843)795-9330

A TREE AND TOPOGRAPHICAL SURVEY OF
TMS #711-00-00-052
KAISER FARM
OWNED QUARRY LAKE PLANTATION, LLC
LOCATED NEAR THE TOWN OF AWENDAW
CHARLESTON COUNTY, SOUTH CAROLINA

DATE:	09-18-2019
DRAWN:	MAS
CHECK:	PRB
CC:	SS
JOB:	19131
DWG:	19131TOPO
SHEET:	1 OF 6

51	14	PINE	1082	6+4	GUM	1186	6+4	PINE	5018	12	LO	10119	9	PINE	10291	6	GUM	10544	12	PINE	11537	6	BIRCH	12770	10	LO	13029	5+4	LO	13268	20	GUM	13581	12+9	PINE	13865	18	PINE
52	17+6	PINE	1083	16	PINE	1187	13	PINE	5019	11	PINE	10120	12+3	PINE	10292	10	PINE	10545	7	PINE	11538	8+6	BIRCH	12771	7	WO	13030	6	LO	13269	12	LO	13582	15	PINE	13867	23	PINE
53	16+6	PINE	1084	22	PINE	1188	8+7	PINE	5021	11	LO	10121	6	PINE	10293	9+8	GUM	10553	12	WO	11539	10+9+6	MAPLE	12772	6	MAGNOLIA	13031	13+8	LO	13270	23+21+21	LO	13583	9	WO	13868	25	PINE
54	22+5	PINE	1085	19	PINE	1190	14	PINE	5022	28	PINE	10122	9	PINE	10294	20	GUM	10554	27	PINE	11540	11	GUM	12773	3	ORNAMENTAL	13032	5+4	LO	13271	17	WO	13584	8	WO	13869	11	PINE
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1014	12+7+5+4	PINE	1119	17	PINE	1231	6	PINE	5191	9	PINE	10156	6	GUM	10328	10	PINE	10588	13	PINE	11574	12	PINE	12824	17	PINE	13069	7	WO	13305	14	PINE	13629	12	GUM	13903	12	PINE
1015	9	PINE	1120	18	PINE	1240	13	PINE	5192	8	OAK	10157	17	PINE	10329	7	PINE	10589	8	PINE	11575	16	PINE	12825	10	WO	13070	6	WO	13306	15	PINE	13630	16	PINE	13904	15	PINE
1016	19	PINE	1121	12	PINE	1241	9	PINE	5198	14	PINE	10158	15	PINE	10330	12	PINE	10590	8	PINE	11576	12	PINE	12826	17	PINE	13071	21	PINE	13307	16	PINE	13631	9	PINE	13905	12	PINE
1017	10+8	PINE	1122	24	PINE	1242	6	PINE	5201	8	WO	10159	16	PINE	10331	13	PINE	10591	7	GUM	11577	12	PINE	12827	15	PINE	13072	18	PINE	13308	17	PINE	13632	14	MAPLE	13906	11	PINE
1018	17	PINE	1123	14	PINE	1243	10	PINE	5202																													

APPENDIX D:
AERIAL CONCEPTUAL SKETCH PLAN



General Notes:

Owner:
 Quarry Lake Plantation, LLC
 PO Box 973
 Charleston, SC 29403

Developer:
 Charleston County School District
 75 Calhoun
 Charleston, SC 29401
 Contact: Angela Barnette
 email: angela_barnette@charleston.k12.sc.us
 Phone: (843) 937-6300

Engineers/Land Planners:
 Seamon Whiteside
 501 Wando Park Blvd., Ste. 200
 Mount Pleasant, SC 29464
 Contact: Lee Gastley
 email: lgastley@seamonwhiteside.com
 Phone: 843/ 884-1667

Site Information

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

NON-JURISDICTIONAL WETLAND ±0.87 AC
 UPLAND ±106.33 AC

TOTAL DEVELOPMENT: 107.2 AC

Proposed Uses

HIGH SCHOOL / MIDDLE SCHOOL (facilities):	
MAIN BUILDING (incl. expansion)	±4.00
FIELD HOUSE	±0.15
PARKING / VEHICULAR ACCESS	±11.10
PONDS (NEW)	±11.52
POND (EXIST. NJ. WETLAND)	±0.87
LAND USE BUFFERS	±3.40
TOTAL	±31.04 ac
OPEN SPACE	
ATHLETIC FIELDS / COURTS	± 9.25
WASTE TREATMENT DRIP AREA	±12.90
WASTE TREATMENT AREA BUFFER	±8.20
UNSTRUCTURED OPEN SPACE*	±28.38
REMAINING UNBUILT SPACE**	±17.43
TOTAL	±76.16 ac

* Unstructured open areas include, but are not limited to, contiguous areas around the buildings/structures and those areas surrounding ponds and athletic fields/courts that are not indicated as belonging to those uses. These areas may be utilized as pedestrian access or general landscaped or unused space.

** Remaining unbuilt space includes areas that do not fit in a listed use but are generally non-contiguous unused space. May include sidewalks or landscaped areas.

Note: Acreages indicated are approximate and based on the conceptual plan as shown. Total final acreages of individual built items will not exceed the amounts shown, and Total open space will not be less than shown.

Sketch Plan Notes

- This Sketch Plan is conceptual in nature and final location of features may be adjusted to allow for on-site conditions. The final layout, however, will maintain the general intent shown on this plan.
- All areas designated for future expansion or not intended for immediate improvement or development shall remain in natural state until such time as development permits are approved.
- Maximum 4% building coverage.
- Maximum height of structures shall be 35' measured from base flood elevation to the halfway point between the eave and the peak of the highest roof element.

Legend

	proposed building / building expansion		pond
	parking / internal drives		drainage swale
	unstructured open space		existing grand tree (24"+ dbh)
	athletic fields / courts		existing protected tree (8"-24" dbh)
	land use buffer		

Site Location Map



AERIAL CONCEPTUAL SKETCH PLAN

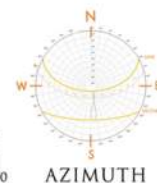
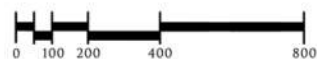
**AWENDAW / MCCLELLANVILLE
 HIGH SCHOOL / MIDDLE SCHOOL**
 CHARLESTON COUNTY SCHOOL DISTRICT
 CHARLESTON COUNTY, SOUTH CAROLINA



CONCEPTUAL MASTER PLAN

NOTE: THIS PLAN IS CONCEPTUAL IN NATURE AND SUBJECT TO CHANGE BASED ON FINAL SURVEY DATA, DEVELOPMENT PROGRAM INFORMATION, MUNICIPAL AND REGULATORY 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

COPY

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.

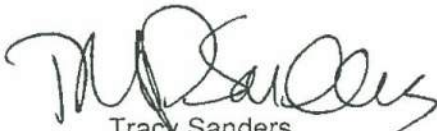
Please be advised that this AJD is valid for five (5) years from the date of this letter unless new information warrants revision before the expiration date. This AJD is an appealable action under the Corps of Engineers administrative appeal procedures defined at 33 CFR Part 331. The administrative appeal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

Y9000

Sincerely,



Tracy Sanders
Biologist

Enclosures:

Approved Jurisdictional Determination Form

Notification of Appeal Options

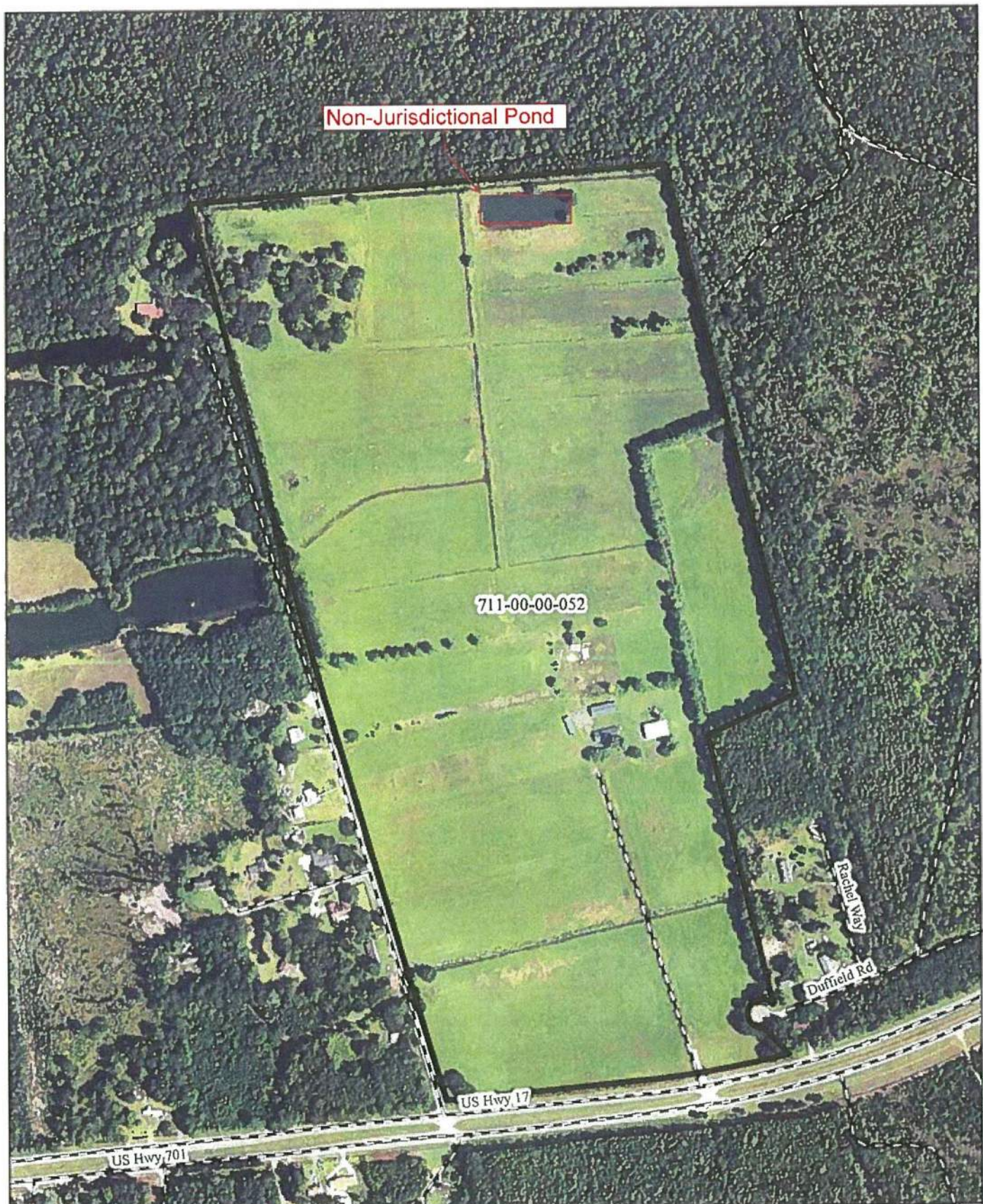
Depiction entitled "Site Map – Kaiser Tract Ravenel Commercial Properties Charleston County, SC"

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



EXTERNAL SOURCES: NAIP 2017 TRUE COLOR AERIAL, U.S. CENSUS ROADS, CHARLESTON COUNTY GIS PARCEL

Created By: Stephen Bennett
 Date Created: July 2, 2018
 Copyright 2018 Sabine & Waters, Inc.
 R. curran@ravenel.commercial
 www.ravenel.commercial
 www.sabineandwaters.com

Sabine & Waters, Inc.
 Environmental Land Management Consultants
 P.O. Box 1072, Summerville, SC 29486
 843 871 5383 (phone) 843 871 7030 (fax)
 www.sabineandwaters.com

Disclaimer: This map is a graphic representation of data obtained from various sources. All efforts have been made to ensure the accuracy of this map. However, Sabine & Waters, Inc. disclaims all responsibility and liability for the use of this map.

REVISED: 7/3/2018

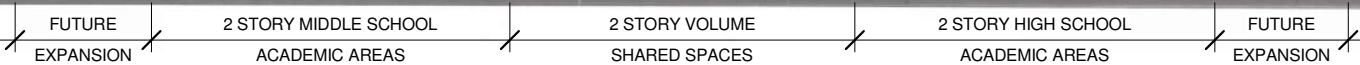
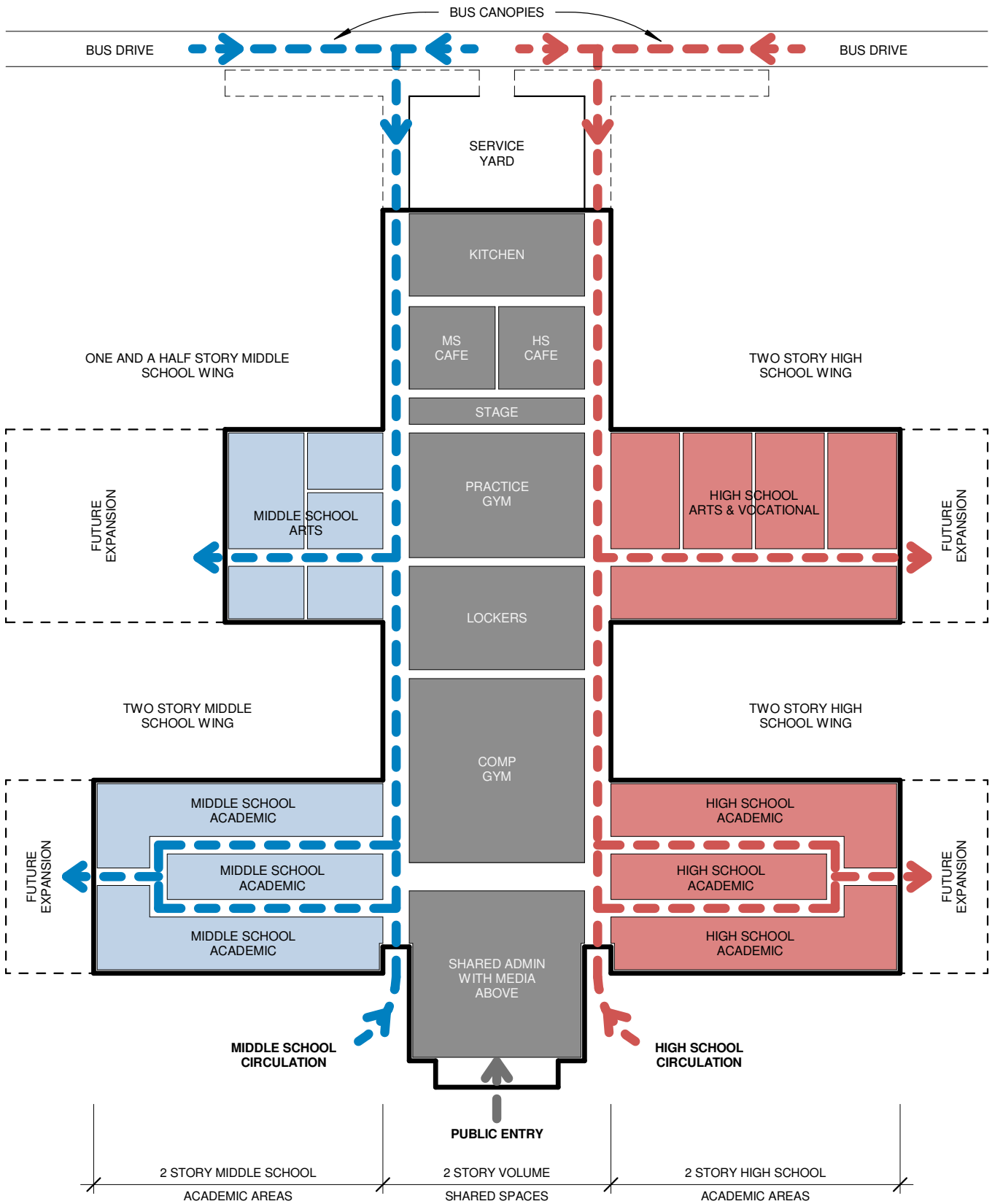
SITE MAP - KAISER TRACT
RAVENEL COMMERCIAL PROPERTIES
CHARLESTON COUNTY, SC

0 450 900
 Feet

LEGEND

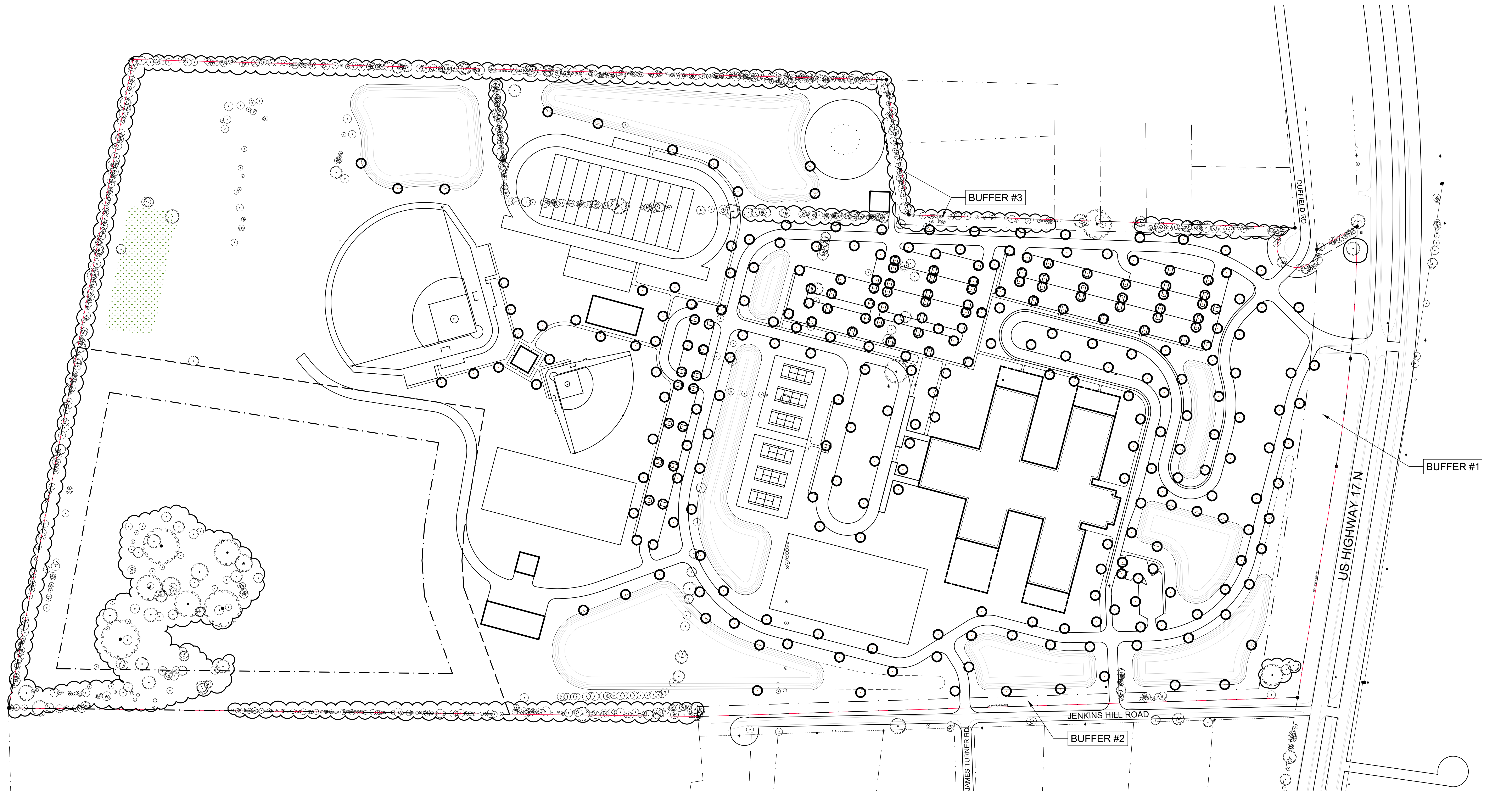
- PROPERTY BOUNDARY: +/- 107.2 AC
- ROADS

APPENDIX F:
ARCHITECTURAL SITE PLAN



PROPOSED MASSING DIAGRAM

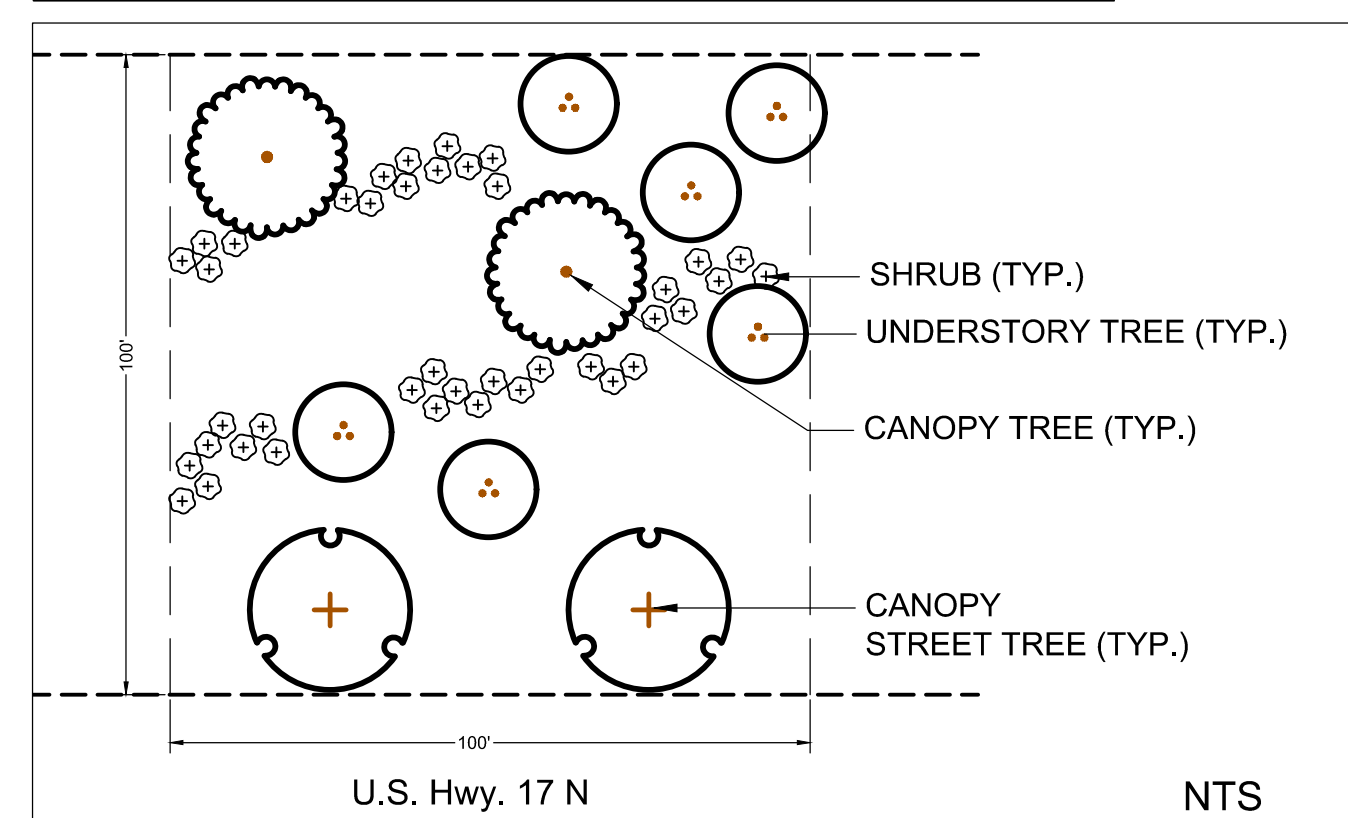
APPENDIX G:
LANDSCAPE SKETCH PLAN



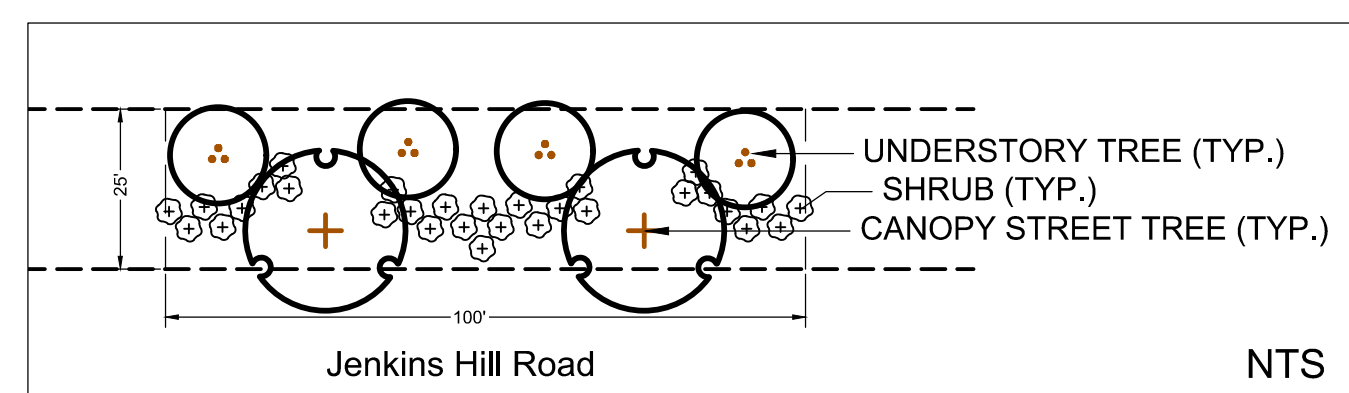
Legend

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

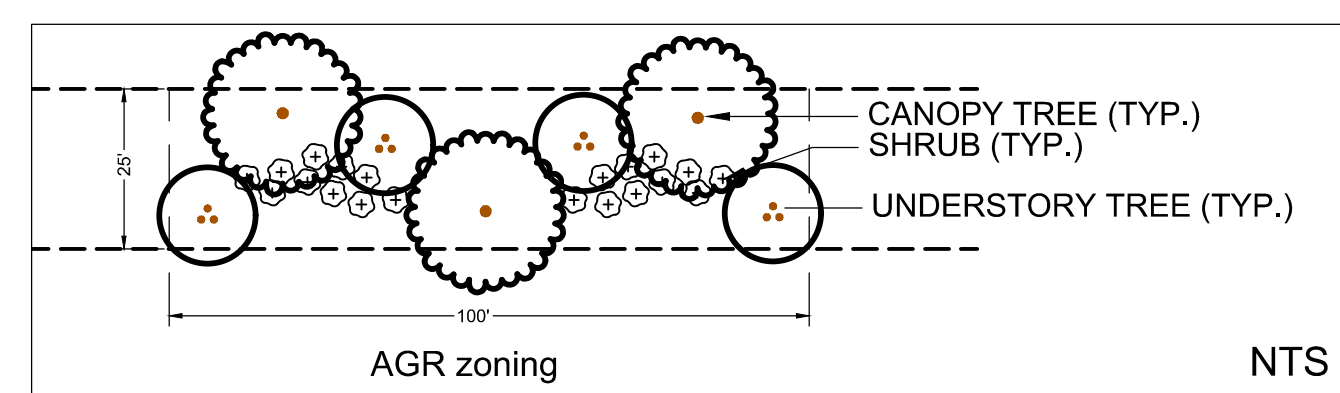
Typical Land use Buffer Plantings



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



Buffer #2 (located along Jenkins Hill Road)
25' Type S2 - total length 1,411 lf



Buffer #3 (located along west property line adj. to AGR zoning)
25' Type B - total length 1,538 lf

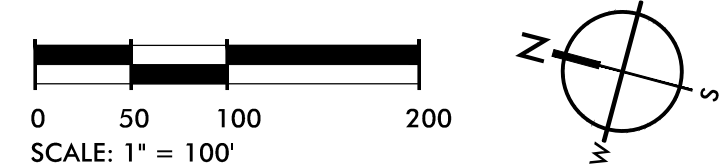
***Notes:**

1. Per Charleston County ZLDR, 2 street trees are required per 100 lf in S2 and S3 buffers and may count toward the canopy tree requirement.
2. Existing trees may count toward canopy tree requirements.
3. Typical Buffer Plantings shown are conceptual. Quantities will be met per requirements noted with final planting locations to be determined and approved by Charleston County Planning Staff.

Site Location Map

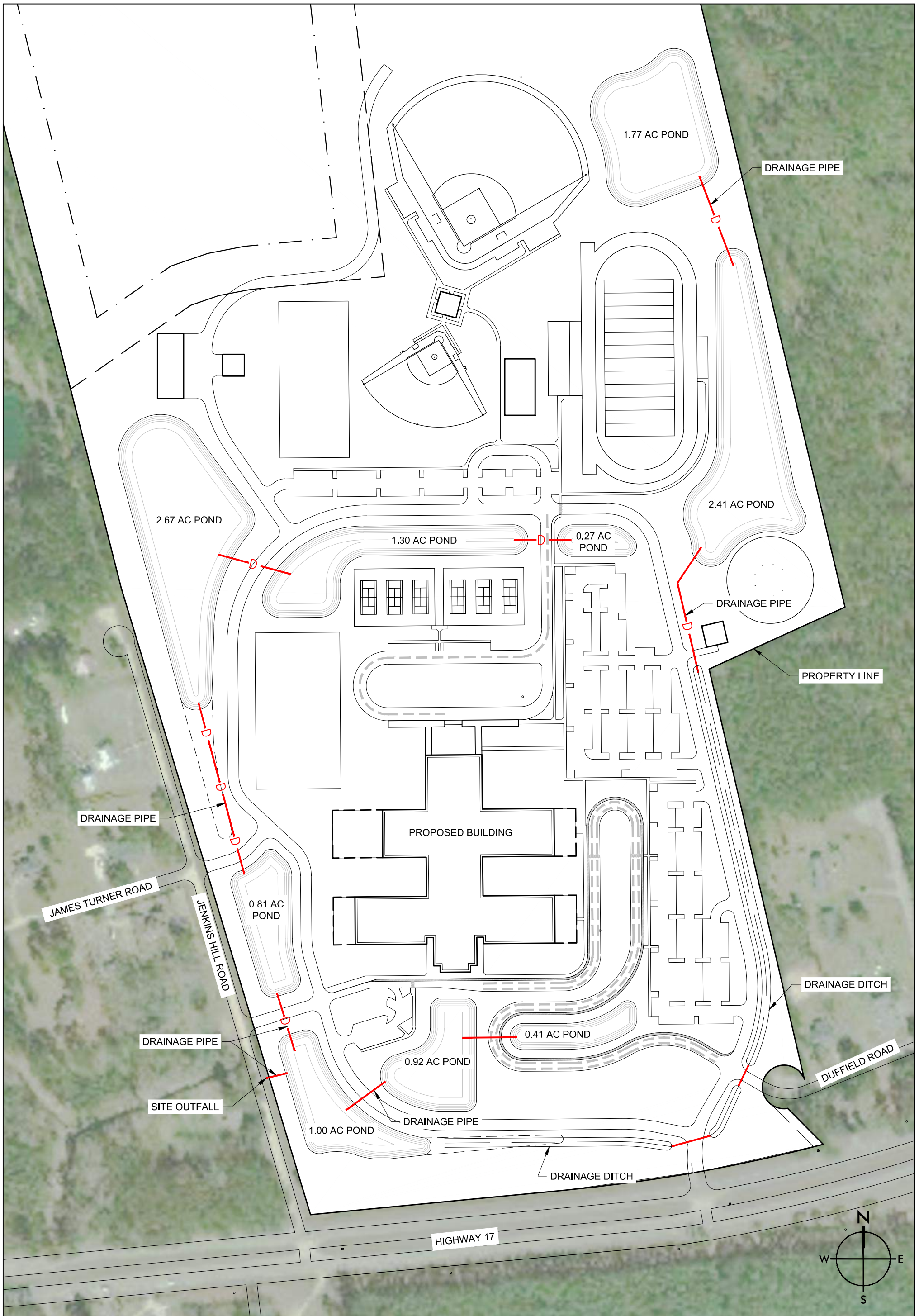


NOTE: THIS PLAN IS CONCEPTUAL IN NATURE AND SUBJECT TO CHANGE.



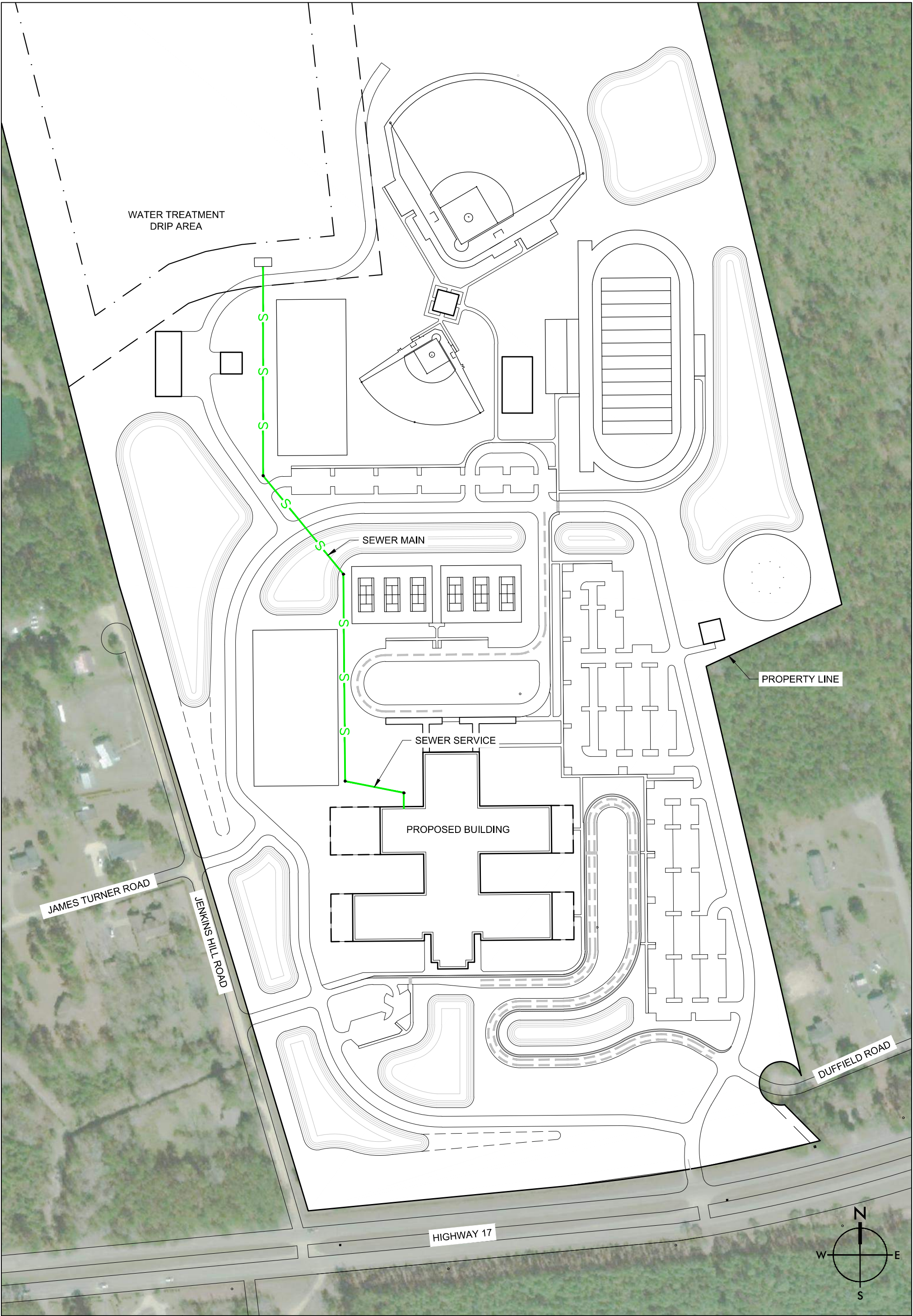
LANDSCAPING SKETCH PLAN
AWENDAW / MCCLELLANVILLE
HIGH SCHOOL / MIDDLE SCHOOL
 CHARLESTON COUNTY SCHOOL DISTRICT
 CHARLESTON COUNTY, SOUTH CAROLINA

APPENDIX H:
UTILITY PLANS



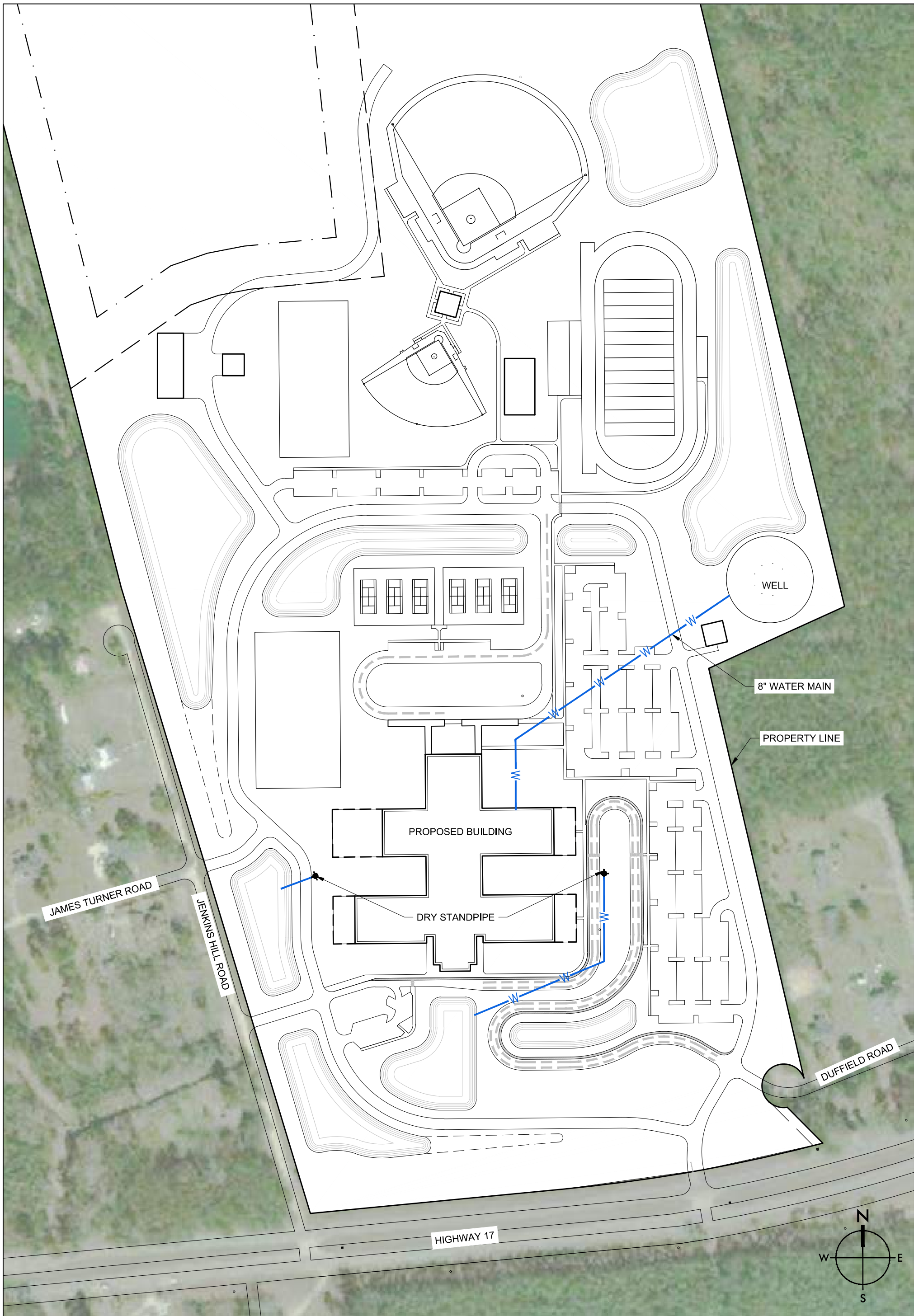
AWENDAW / McCLELLANVILLE HIGH / MIDDLE SCHOOL
 PROJECT #8067
 DATE: 02/18/20
 SCALE: 1:200

CONCEPTUAL DRAINAGE
 PLAN

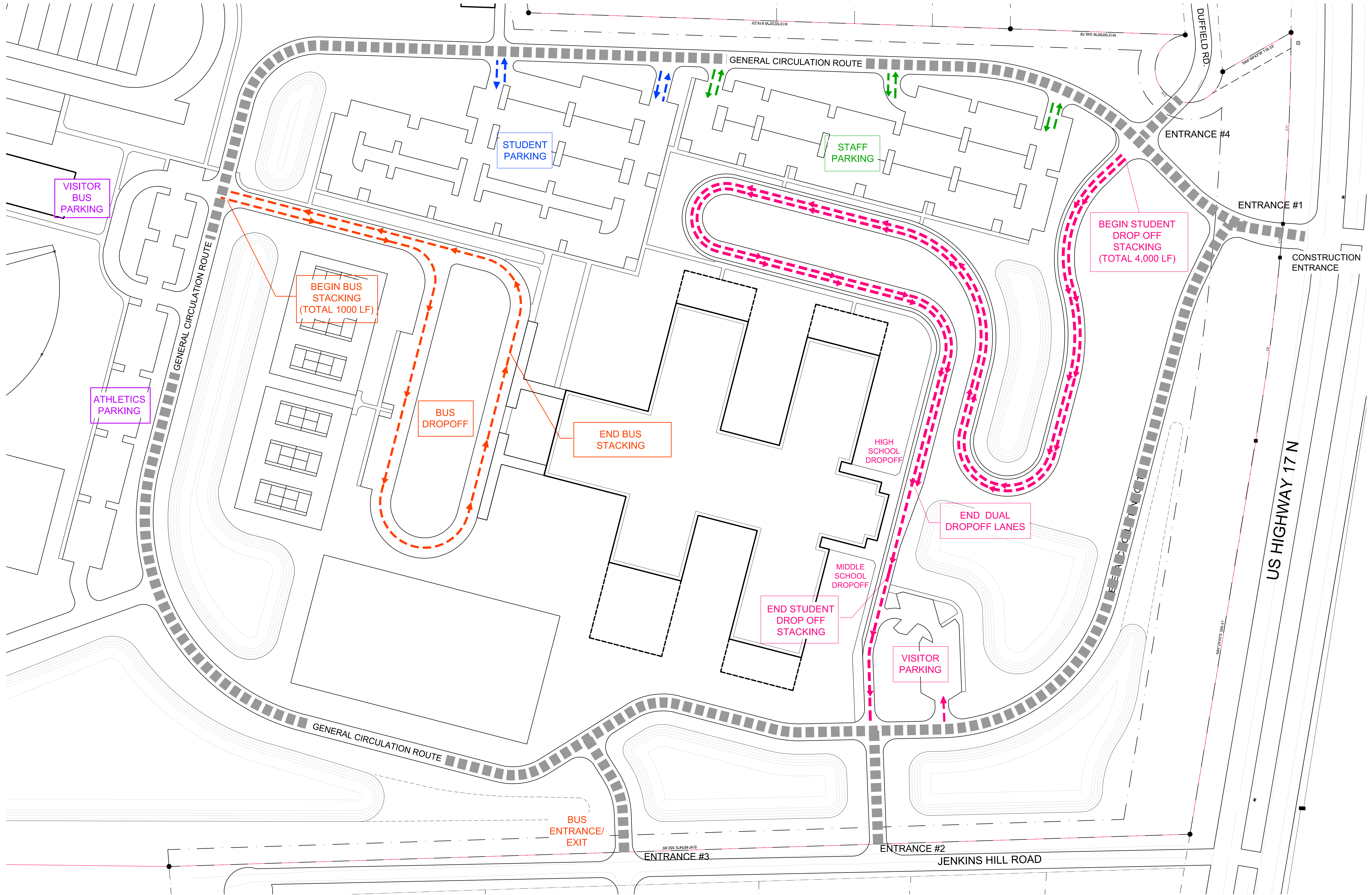


AWENDAW / McCLELLANVILLE HIGH / MIDDLE SCHOOL
PROJECT #8067
DATE: 02/18/20
SCALE: 1:200

CONCEPTUAL SEWER PLAN



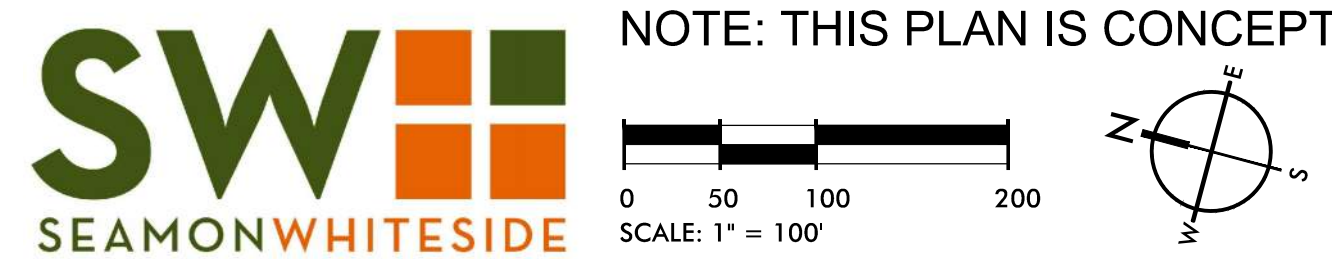
APPENDIX I:
CIRCULATION PLAN



TRAFFIC CIRCULATION PLAN

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

02/17/2020



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

SCALE: 1" = 100'

APPENDIX J:

**TRAFFIC IMPACT
& ACCESS STUDY**

TRAFFIC IMPACT AND ACCESS STUDY

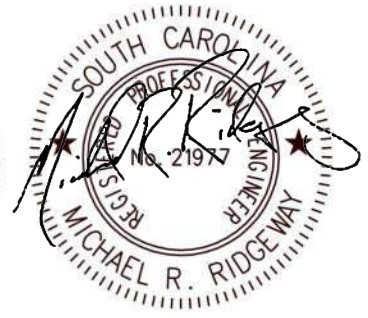
HIGH SCHOOL/MIDDLE SCHOOL IN AWENDAW CHARLESTON COUNTY, SC

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



2/27/20

RIDGEWAY
TRAFFIC CONSULTING
803-361-9044

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**.



Figure 1
SITE LOCATION MAP
High School/Middle School In Awendaw

RIDGEWAY
 TRAFFIC CONSULTING
 803-361-9044



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

02/19/2020



Figure 2
PROPOSED SITE PLAN
High School/Middle School In Awendaw

RIDGEWAY
TRAFFIC CONSULTING
 803-361-9044

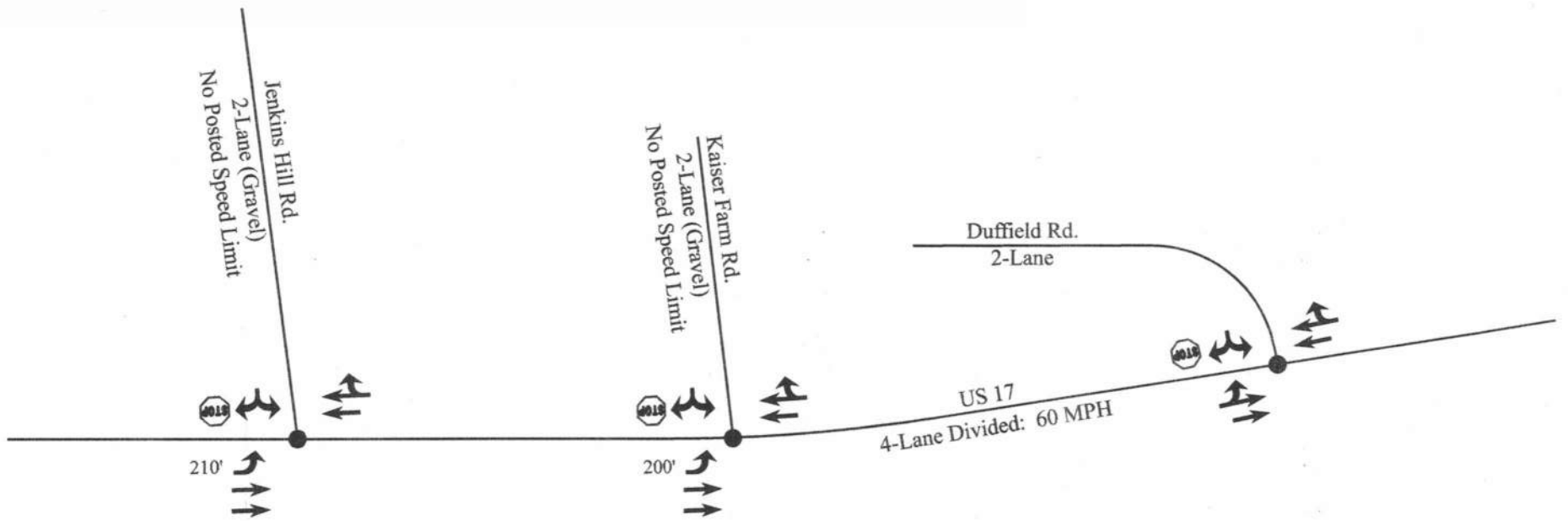
TRAFFIC VOLUMES

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**.



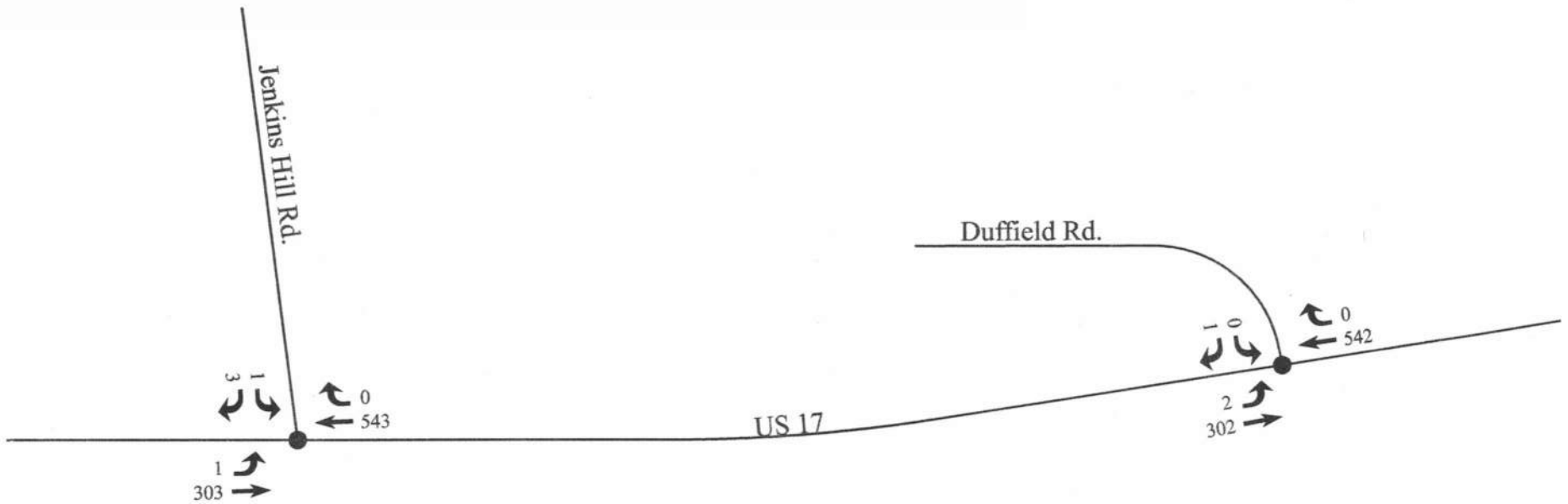
- = Unsignalized Intersection
- ↔ = Lane Designation
- 000' = Storage Length



RIDGEWAY
TRAFFIC CONSULTING

Figure 3
EXISTING GEOMETRY &
TRAFFIC CONTROL

High School/Middle School In Awendaw

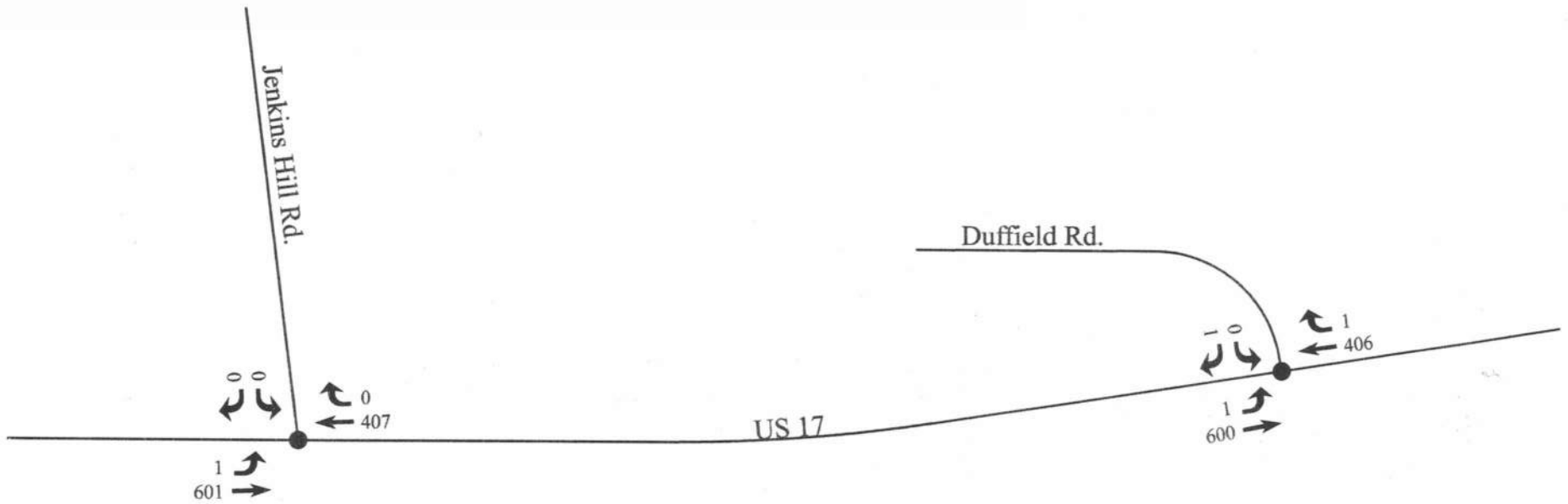


● = Unsignalized Intersection



RIDGEWAY
TRAFFIC CONSULTING

Figure 4A
EXISTING 2019 TRAFFIC VOLUMES
AM PEAK HOUR
High School/Middle School In Awendaw

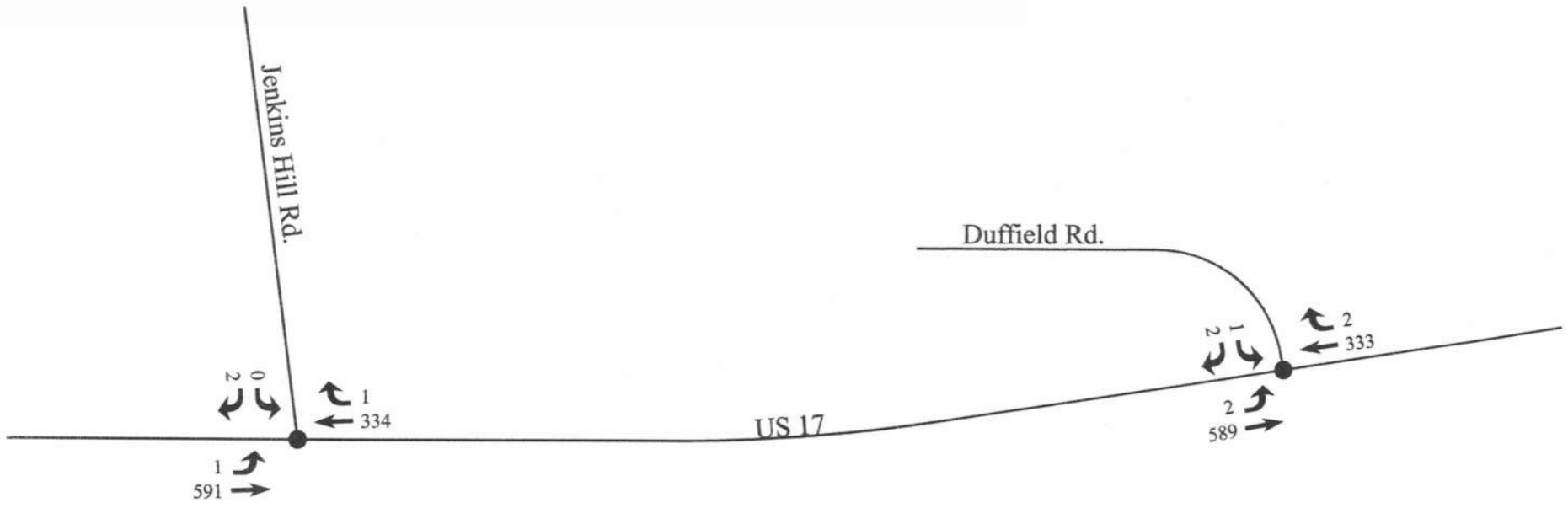


● = Unsignalized Intersection



RIDGEWAY
TRAFFIC CONSULTING

Figure 4B
EXISTING 2019 TRAFFIC VOLUMES
SCHOOL PM PEAK HOUR
High School/Middle School In Awendaw



● = Unsignalized Intersection



RIDGEWAY
TRAFFIC CONSULTING

Figure 4C
EXISTING 2019 TRAFFIC VOLUMES
PM PEAK HOUR
High School/Middle School In Awendaw

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.

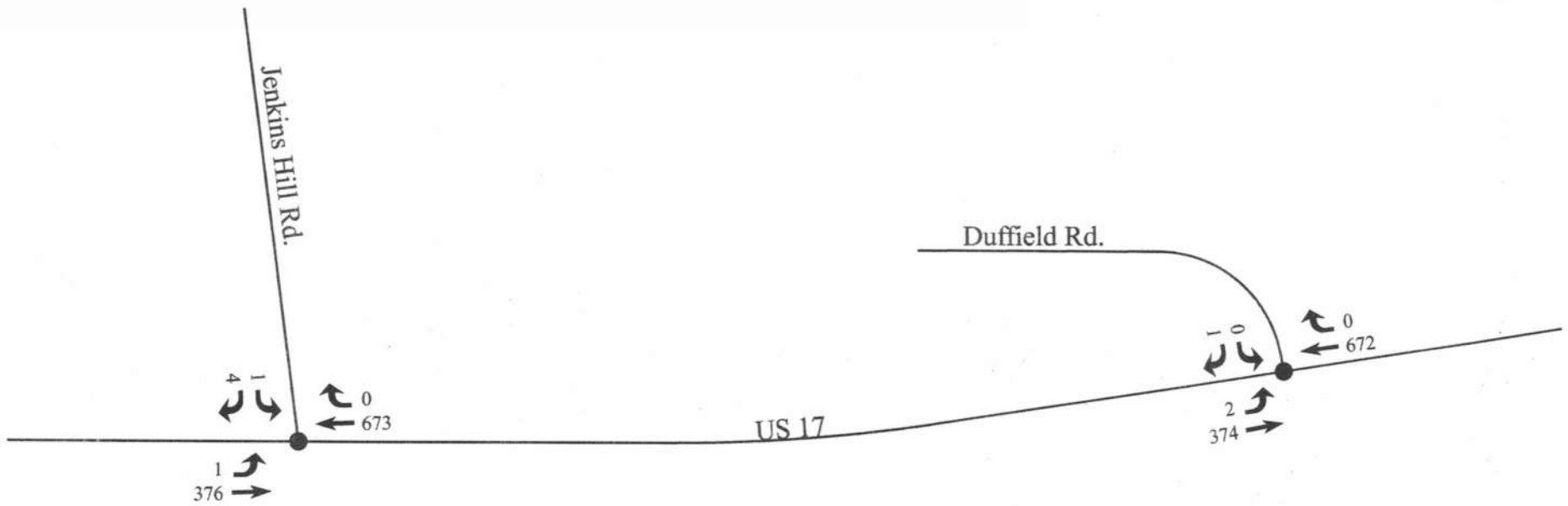
Specific Development

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 vehicles-per-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.

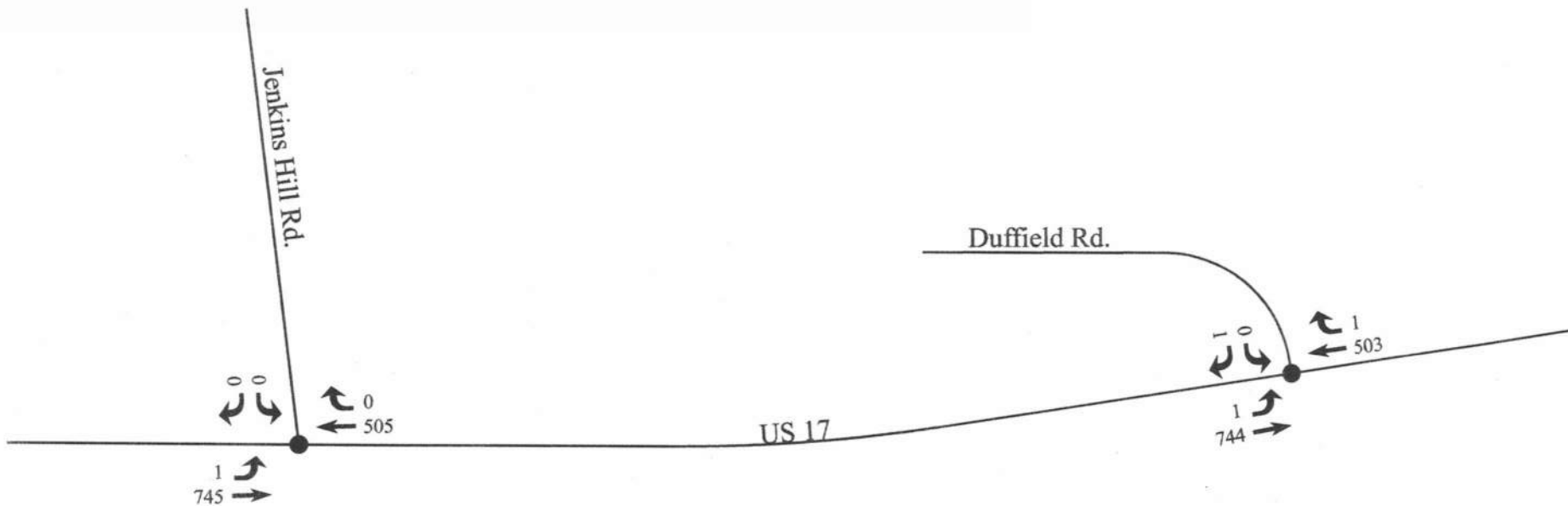


● = Unsignalized Intersection



RIDGEWAY
TRAFFIC CONSULTING

Figure 5A
2025 NO-BUILD TRAFFIC VOLUMES
AM PEAK HOUR
High School/Middle School In Awendaw

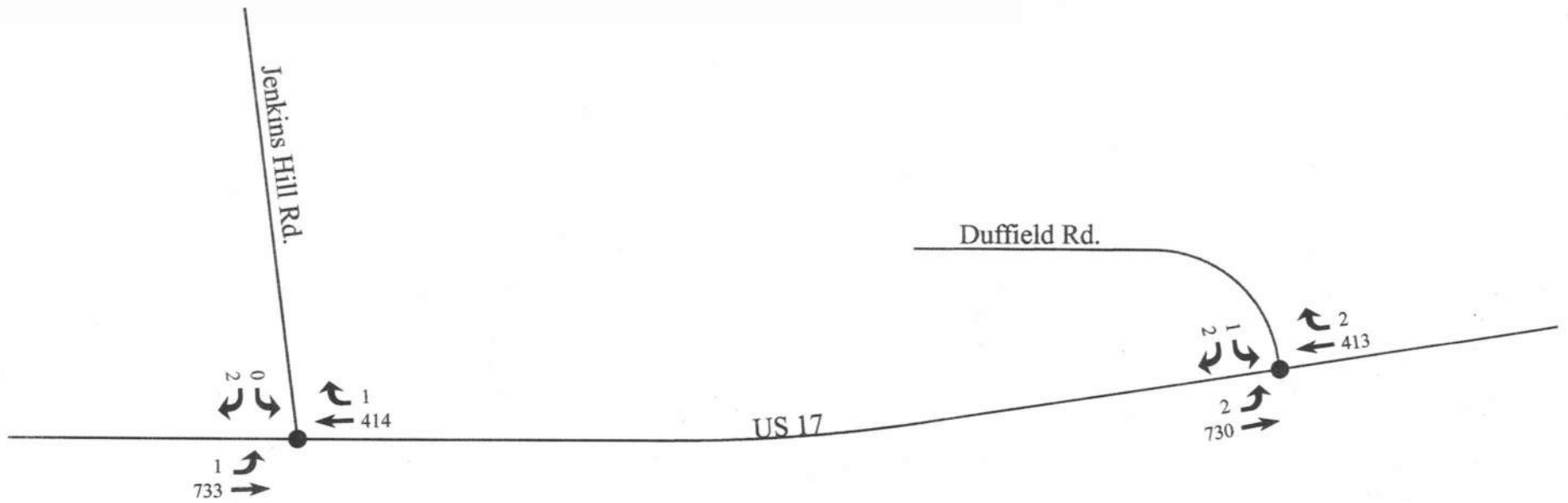


● = Unsignalized Intersection



RIDGEWAY
TRAFFIC CONSULTING

Figure 5B
2025 NO-BUILD TRAFFIC VOLUMES
SCHOOL PM PEAK HOUR
High School/Middle School In Awendaw



● - Unsignalized Intersection



RIDGEWAY
TRAFFIC CONSULTING

Figure 5C
2025 NO-BUILD TRAFFIC VOLUMES
PM PEAK HOUR
High School/Middle School In Awendaw

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
<u>Exit</u>	<u>133</u>	<u>86</u>	<u>219</u>
Total	290	260	550
PM Peak-Hour (School)			
Enter	80	68	148
<u>Exit</u>	<u>95</u>	<u>144</u>	<u>239</u>
Total	175	212	387
PM Peak-Hour (Commuter)			
Enter	42	34	76
<u>Exit</u>	<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.

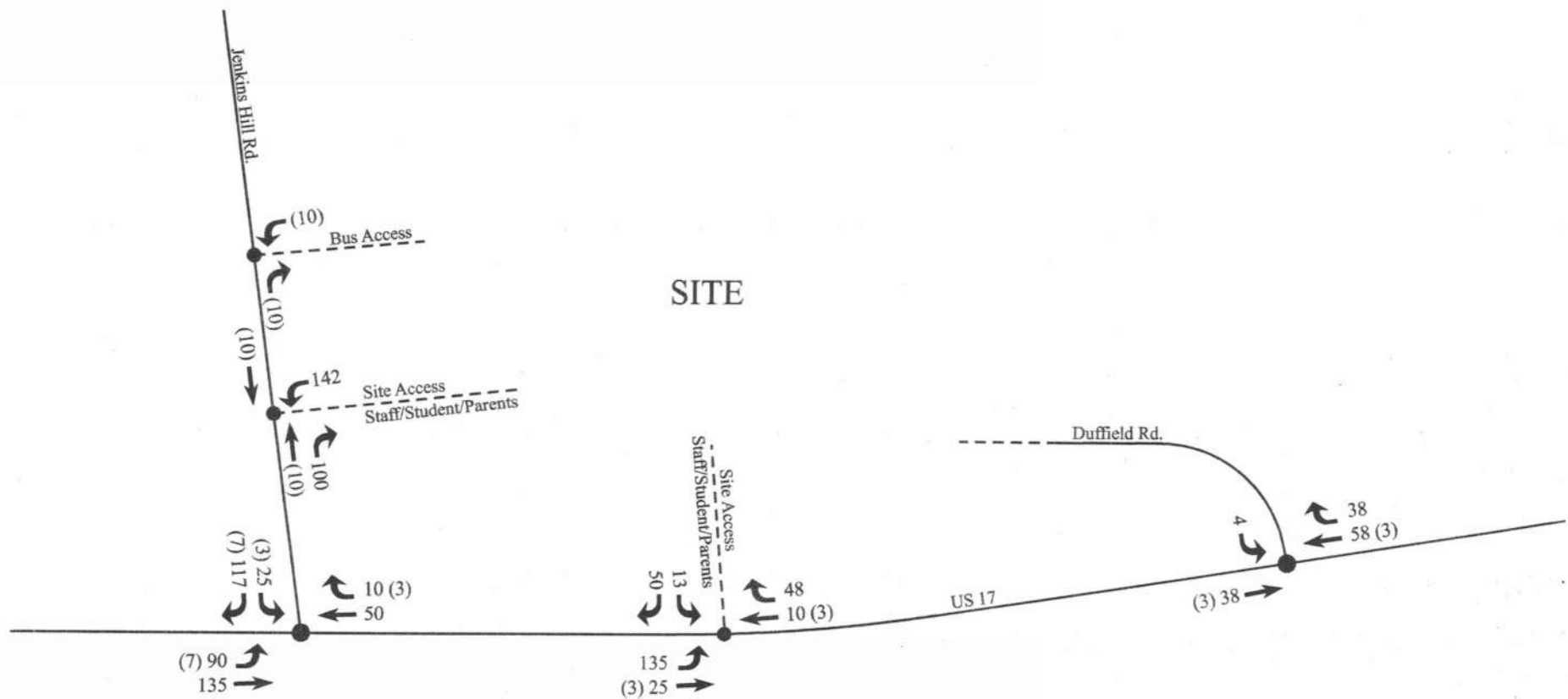
Table 2
PROJECT TRIP-DISTRIBUTION SUMMARY¹
High School/ Middle School In Awendaw

Roadway	Direction To/From	AM PEAK-HOUR		PM PEAK-HOUR SCHOOL		PM PEAK-HOUR COMMUTER	
		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.

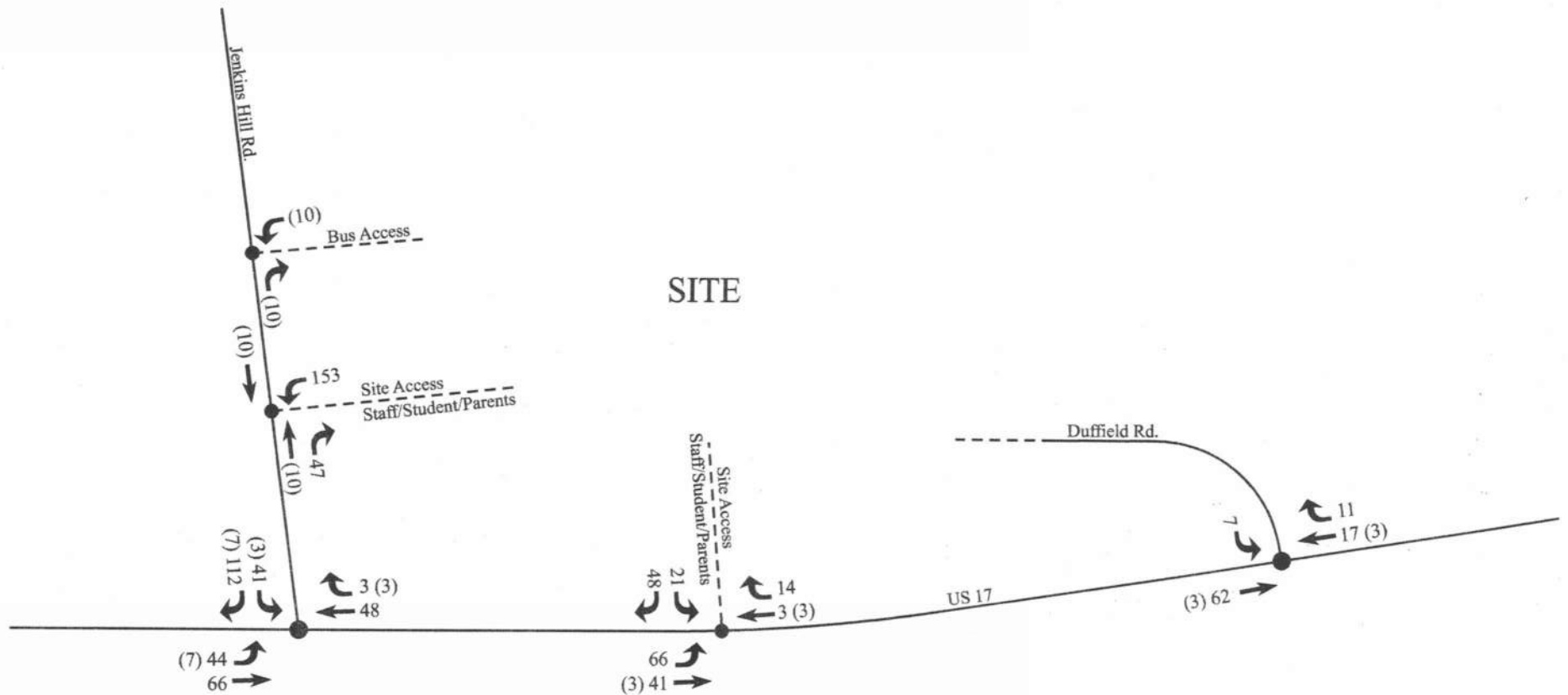


● = Unsignalized Intersection
 000 = Passenger Vehicles
 (000) = Buses



R RIDGEWAY
 TRAFFIC CONSULTING

Figure 6A
 SITE-GENERATED TRAFFIC VOLUMES
 AM PEAK HOUR
 High School/Middle School In Awendaw

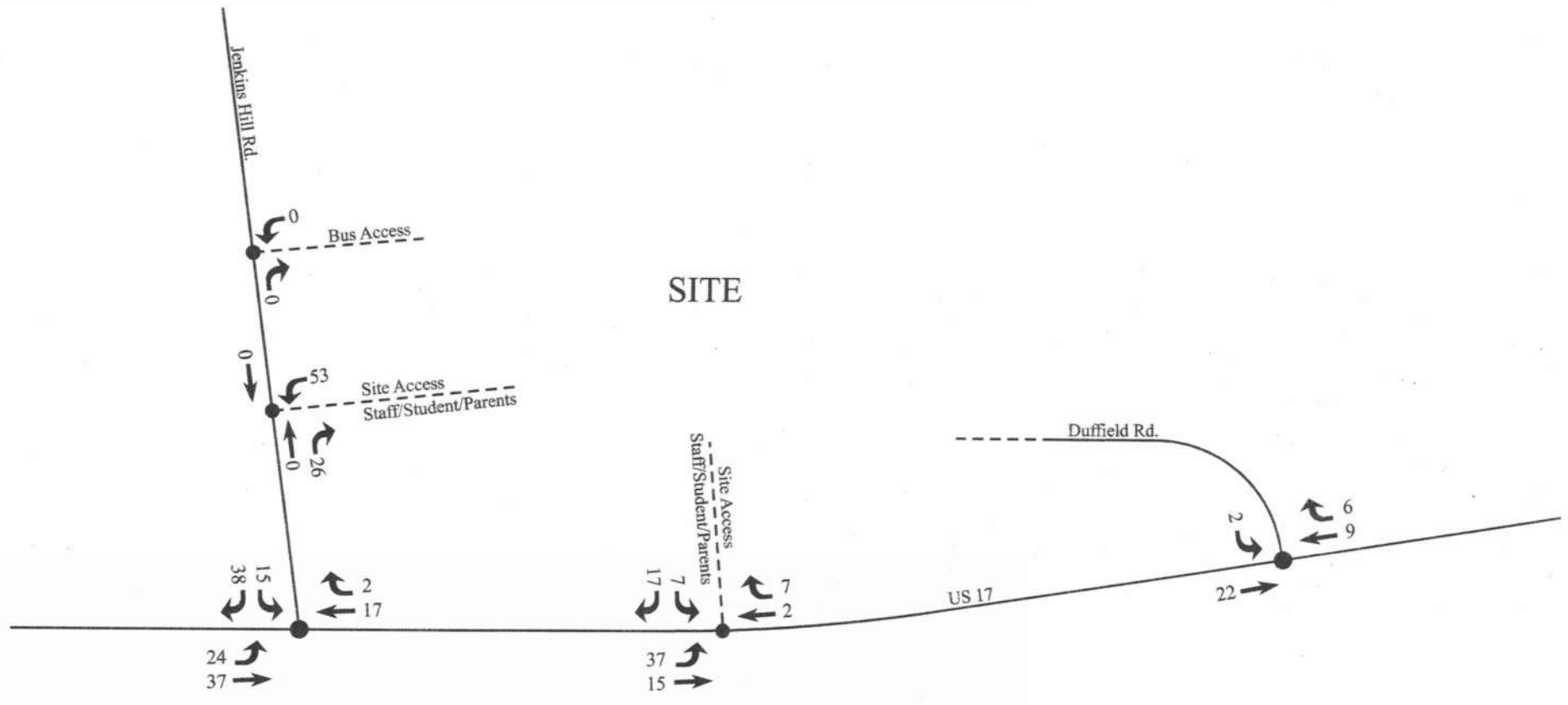


● = Unsignalized Intersection
 000 = Passenger Vehicles
 (000) = Buses



RIDGEWAY
 TRAFFIC CONSULTING

Figure 6B
 SITE-GENERATED TRAFFIC VOLUMES
 SCHOOL PM PEAK HOUR
 High School/Middle School In Awendaw

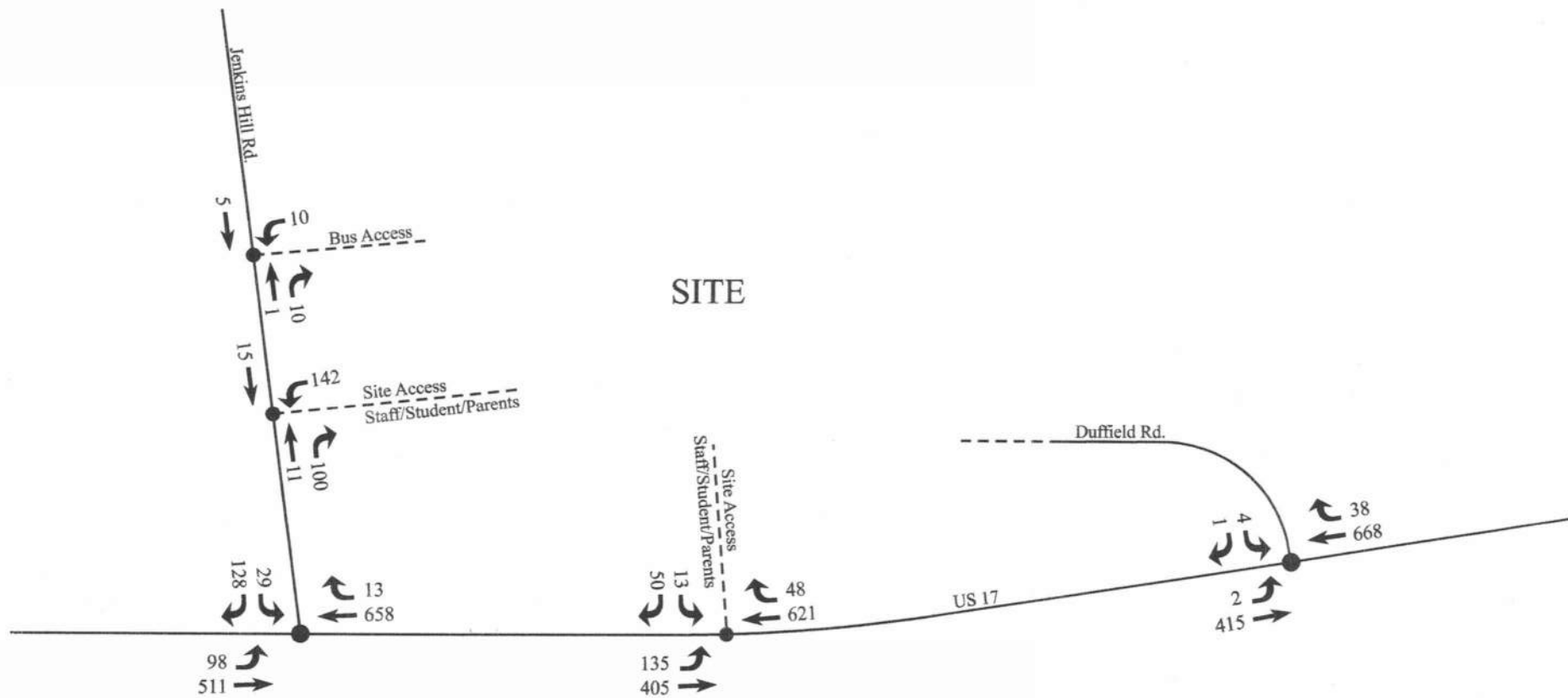


● = Unsignalized Intersection
 000 = Passenger Vehicles



RIDGEWAY
 TRAFFIC CONSULTING

Figure 6C
 SITE-GENERATED TRAFFIC VOLUMES
 PM PEAK HOUR
 High School/Middle School In Awendaw

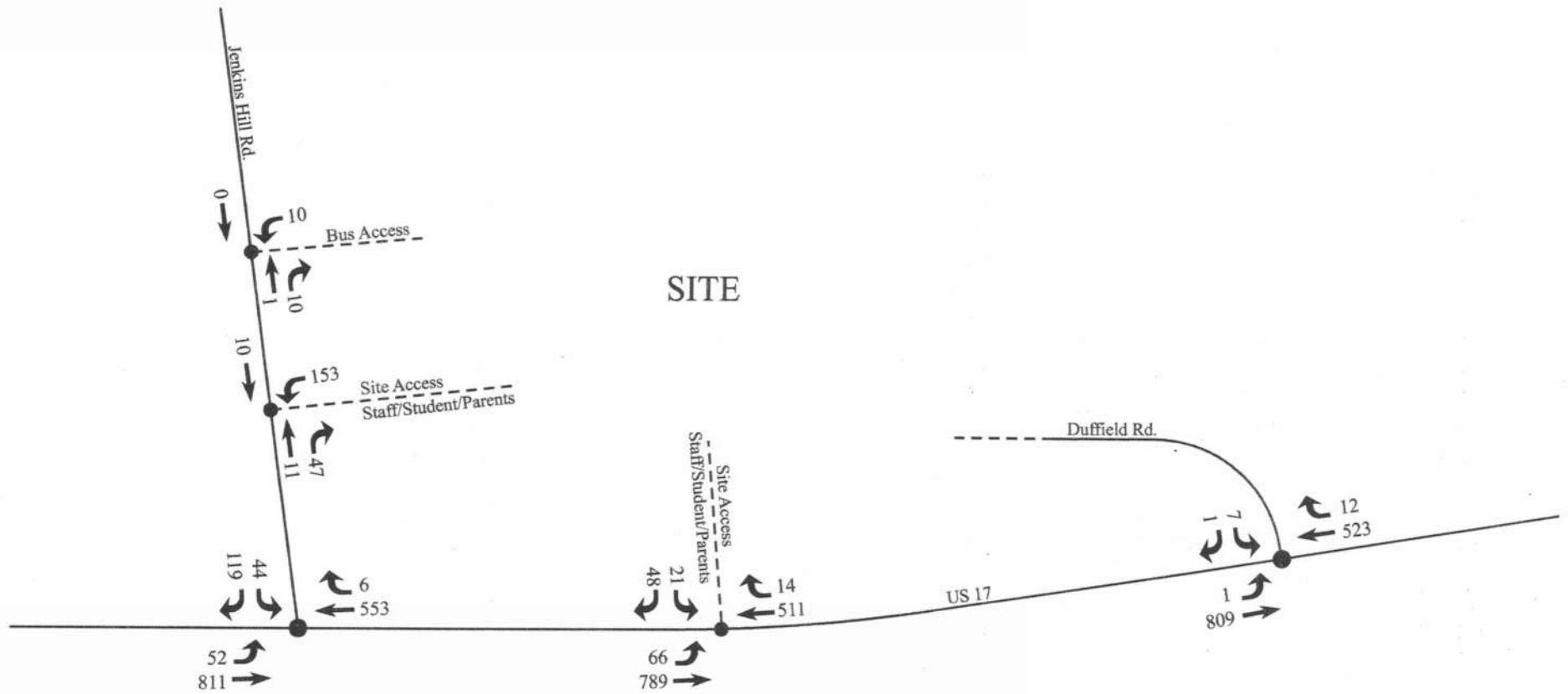


● = Unsignalized Intersection
 000 = Passenger Vehicles
 (000) = Buses



RRIDGEWAY
 TRAFFIC CONSULTING

Figure 7A
 2025 BUILD TRAFFIC VOLUMES
 AM PEAK HOUR
 High School/Middle School In Awendaw

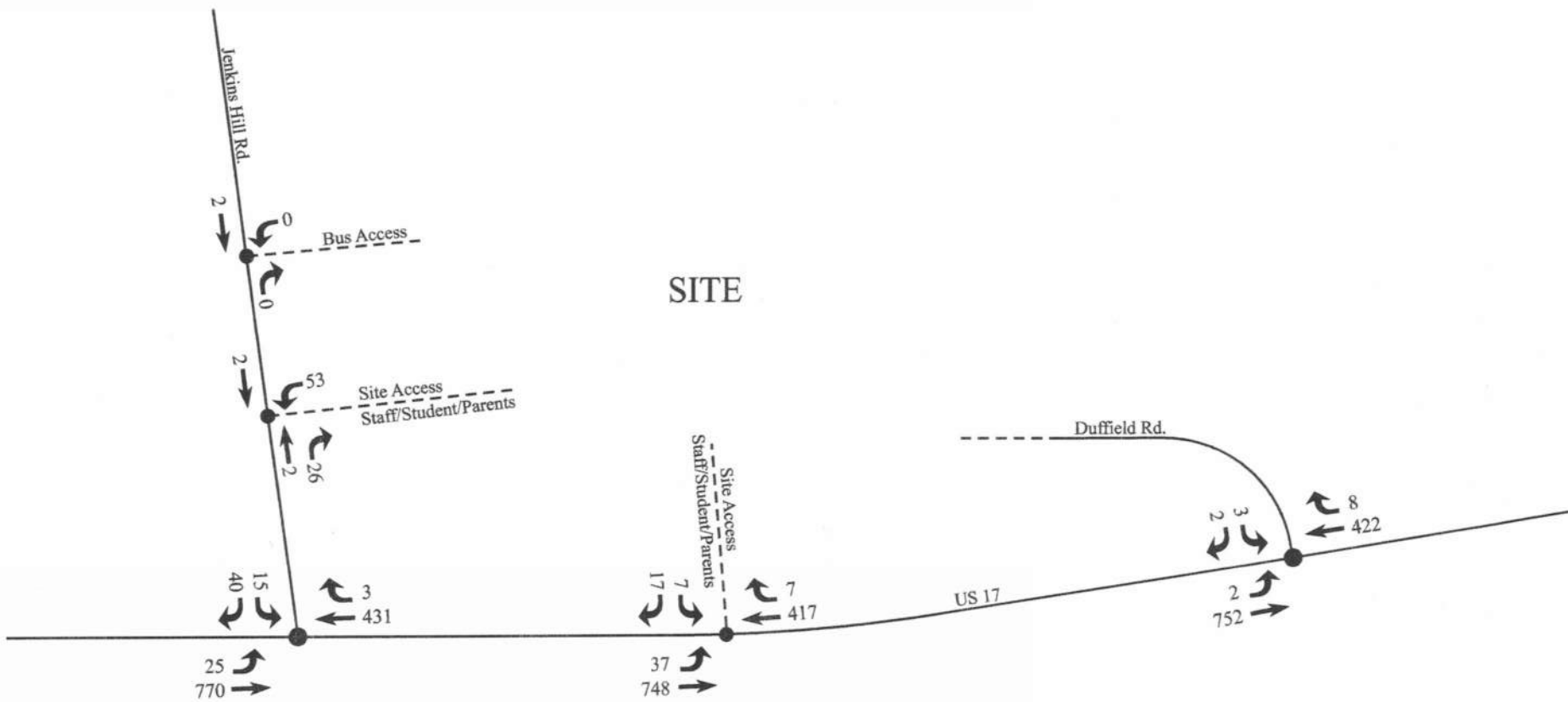


● = Unsignalized Intersection
 000 = Passenger Vehicles
 (000) = Buses



RIDGEWAY
 TRAFFIC CONSULTING

Figure 7B
 2025 BUILD TRAFFIC VOLUMES
 SCHOOL PM PEAK HOUR
 High School/Middle School In Awendaw



RIDGEWAY
 TRAFFIC CONSULTING

Figure 7C
 2025 BUILD TRAFFIC VOLUMES
 PM PEAK HOUR
 High School/Middle School In Awendaw

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 Period	EXISTING 2019 CONDITIONS		FUTURE 2025 NO-BUILD CONDITIONS		FUTURE 2025 BUILD CONDITIONS	
		Delay ^a	LOS ^b	Delay	LOS	Delay	LOS
Unsignalized Intersections							
US 17 at Jenkins Hill Road	AM	10.8	B	11.6	B	20.0	C
	PM School	8.2	A	8.5	A	18.8	B
	PM	9.5	A	9.8	A	12.1	B
US 17 at Duffield Road	AM	10.1	B	10.7	B	13.8	B
	PM School	9.6	A	10.0	B	13.2	B
	PM	10.2	B	10.8	B	11.8	B
US 17 at Main School Access (Students, Staff, Parents)	AM					14.0	B
	PM School					12.9	B
	PM					11.1	B
Jenkins Hill Road at Site Access (Students, Staff, Parents)	AM					10.7	B
	PM School					10.3	B
	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.

b. LOS = Level-of-Service.

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.

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:

US 17 at Site Access: 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.

Jenkins Hill Road at Southern Access: 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.

Duffield Road Connectivity: 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 Period	FUTURE 2025 NO-BUILD CONDITIONS		FUTURE 2025 BUILD CONDITIONS		FUTURE 2025 BUILD CONDITIONS MITIGATED	
		Delay ^a	LOS ^b	Delay	LOS	Delay	LOS
Unsignalized Intersections							
US 17 at Jenkins Hill Road	AM	11.6	B	20.0	C	15.0	C
	PM School	8.5	A	18.8	B	14.1	B
	PM	9.8	A	12.1	B	11.5	B
US 17 at Main School Access (Students, Staff, Parents)	AM			14.0	B	14.8	B
	PM School			12.9	B	13.6	B
	PM			11.1	B	11.3	B

a. Delay in seconds-per-vehicle.

b. LOS = Level-of-Service.

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.

APPENDIX

- Count Data
- Capacity Analyses

COUNT DATA

S H O R T C O U N T S , L L C

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
Page No : 1

Groups Printed- Passenger Vehicles - Heavy Vehicles - Buses

Start Time	Jenkins Hill Rd Southbound				US 17 Westbound				Northbound				US 17 Eastbound				Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
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	0	63	0	0	195
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	188
08:45	0	0	0	0	0	105	0	0	0	0	0	0	0	62	0	0	168
Total	0	0	2	0	0	459	0	0	0	0	0	0	0	266	0	0	729
14:00	1	0	0	0	0	79	1	0	0	0	0	0	0	128	0	1	210
14:15	1	0	0	0	0	91	0	0	0	0	0	0	0	121	0	0	213
14:30	0	0	0	0	0	118	0	0	0	0	0	0	0	146	1	0	267
14:45	0	0	0	0	0	90	1	0	0	0	0	0	0	152	0	0	244
Total	2	0	0	0	0	378	2	0	0	0	0	0	0	547	1	1	934
15:00	0	0	0	0	0	107	0	0	0	0	0	0	0	148	0	0	256
15:15	0	0	0	0	0	105	0	0	0	0	0	0	0	141	0	0	246
15:30	0	0	0	0	0	111	0	0	0	0	0	0	0	140	0	0	251
15:45	0	0	0	0	0	84	0	0	0	0	0	0	0	170	0	0	254
Total	0	0	0	0	0	407	0	0	0	0	0	0	0	599	0	0	1007
16:00	0	0	1	0	0	91	0	0	0	0	0	0	0	151	0	0	243
16:15	0	0	1	0	0	98	0	0	0	0	0	0	0	176	0	0	276
16:30	0	0	0	0	0	69	0	0	0	0	0	0	0	142	0	0	211
16:45	0	0	0	0	0	76	1	0	0	0	0	0	0	122	0	0	199
Total	0	0	2	0	0	334	1	0	0	0	0	0	0	591	0	0	929
17:00	0	0	2	0	0	91	1	0	0	0	0	0	0	140	0	0	234
17:15	1	0	1	0	0	87	0	0	0	0	0	0	0	134	0	0	223
17:30	0	0	0	0	0	63	1	0	0	0	0	0	0	123	0	0	187
17:45	0	0	0	0	0	85	1	0	0	0	0	0	0	118	0	0	204
Total	1	0	3	0	0	326	3	0	0	0	0	0	0	515	0	0	848
Grand Total	4	0	11	0	0	2440	7	0	0	0	0	0	0	2805	2	2	5278
Apprch %	26.7	0	73.3	0	0	99.7	0.3	0	0	0	0	0	0	99.6	0.1	0.1	
Total %	0.1	0	0.2	0	0	46.2	0.1	0	0	0	0	0	0	53.1	0	0	
Passenger Vehicles	4	0	11	0	0	2316	7	0	0	0	0	0	0	2654	1	2	5002
% Passenger Vehicles	100	0	100	0	0	94.9	100	0	0	0	0	0	0	94.6	50	100	94.8
Heavy Vehicles	0	0	0	0	0	100	0	0	0	0	0	0	0	131	1	0	232
% Heavy Vehicles	0	0	0	0	0	4.1	0	0	0	0	0	0	0	4.7	50	0	4.4
Buses	0	0	0	0	0	24	0	0	0	0	0	0	0	20	0	0	44
% Buses	0	0	0	0	0	1	0	0	0	0	0	0	0	0.7	0	0	0.8

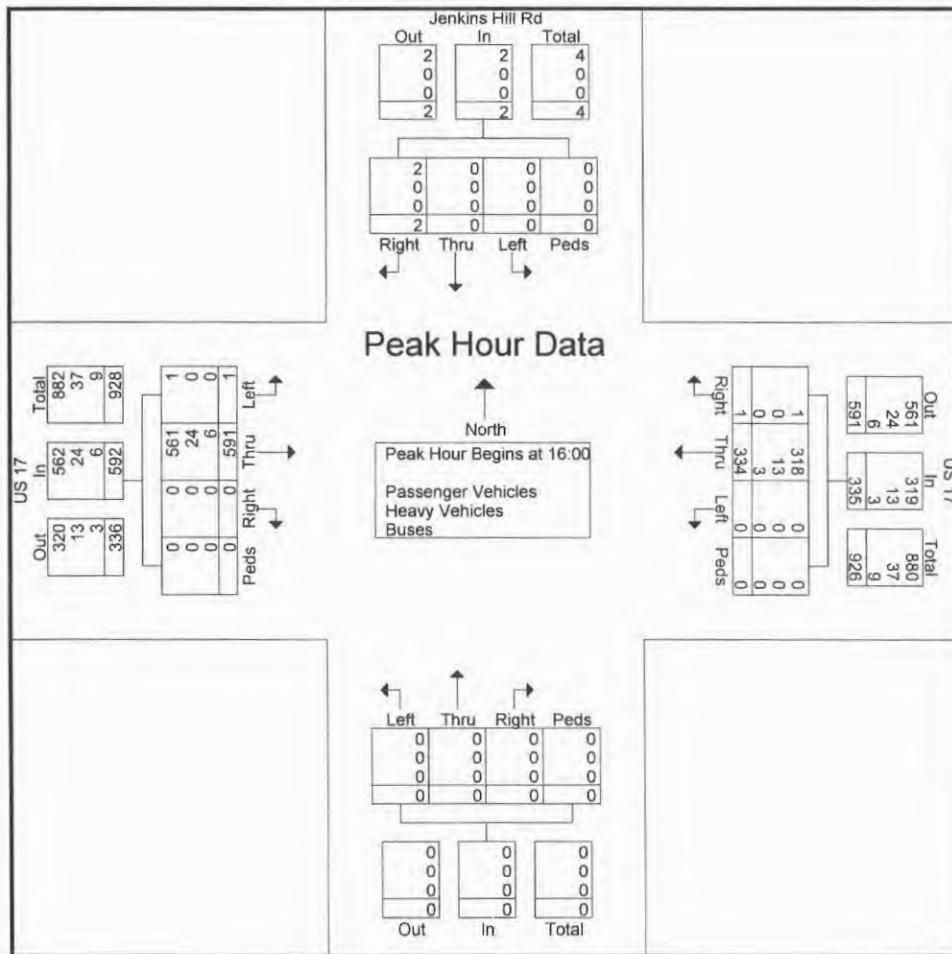
S H O R T C O U N T S , L L C

735 Maryland St
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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
Page No : 5

Start Time	Jenkins Hill Rd Southbound					US 17 Westbound					Northbound					US 17 Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 16:00 to 17:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins 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	0	99.7	0.3	0	0	0	0	0	0	0	0.2	99.8	0	0	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	0	0	2	0	2	0	318	1	0	319	0	0	0	0	0	1	561	0	0	562	883
% Passenger Vehicles																					
Heavy Vehicles	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	0	24	0	0	24	37
% 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



S H O R T C O U N T S , L L C

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

Page No : 1

Groups Printed- Passenger Vehicles - Heavy Vehicles - Buses

Start Time	Duffield Rd Southbound				US 17 Westbound				Northbound				US 17 Eastbound				Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
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	0	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	0	0	248
15:45	0	0	1	0	0	80	0	0	0	0	0	0	0	175	0	0	256
Total	0	0	1	0	0	400	1	0	0	0	0	0	1	600	1	0	1004
16:00	0	0	1	0	0	94	1	0	0	0	0	0	0	150	0	0	246
16:15	0	0	0	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	0	0	191
Total	1	0	2	0	0	332	2	0	0	0	1	0	2	581	0	0	921
17:00	0	0	0	0	0	96	1	0	0	0	0	0	0	146	0	0	243
17:15	0	0	1	0	0	81	0	0	0	0	0	0	0	135	0	0	217
17:30	0	0	2	0	0	70	0	0	0	0	0	0	1	120	0	0	193
17:45	0	0	0	0	0	77	0	0	0	0	0	0	0	118	0	0	195
Total	0	0	3	0	0	324	1	0	0	0	0	0	1	519	0	0	848
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 H O R T C O U N T S , L L C

735 Maryland St
Columbia, SC 29201

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

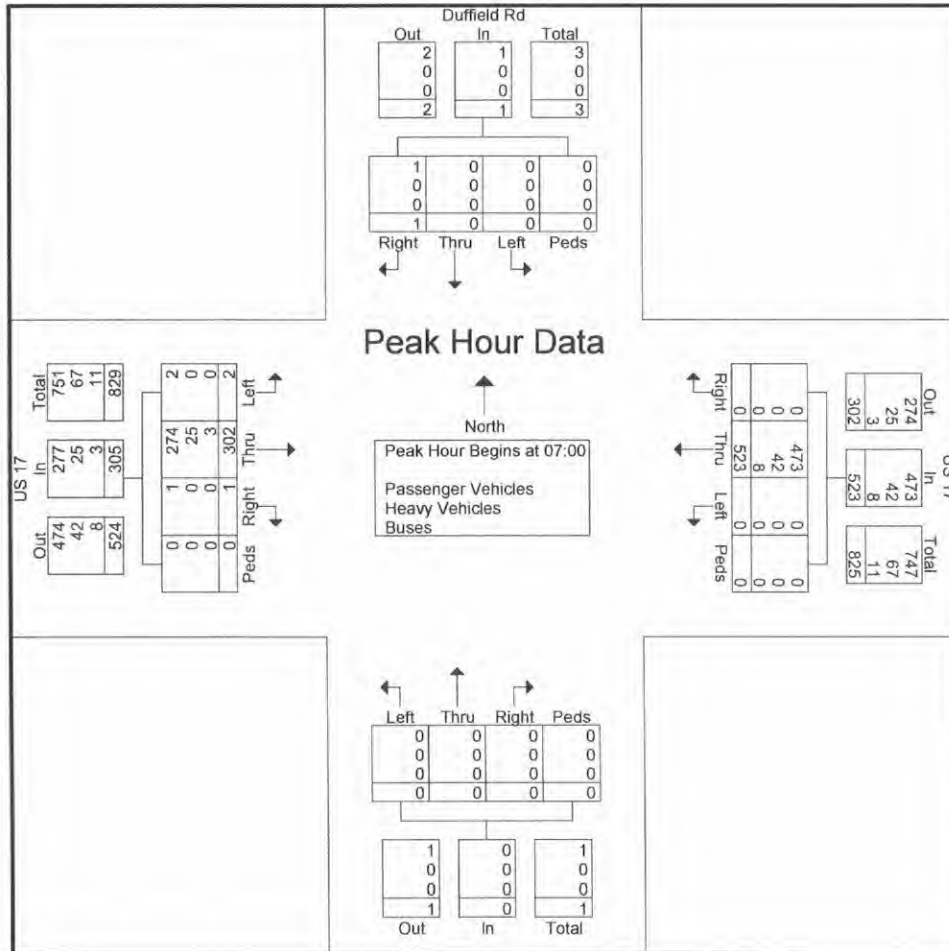
File Name : US 17 @ Duffield Rd

Site Code :

Start Date : 09/19/2019

Page No : 3

Start Time	Duffield Rd Southbound					US 17 Westbound					Northbound					US 17 Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 07:00 to 08:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00																					
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	0	100	0	0	0	0	0	0	0	0	0.7	99	0.3	0	0	
PHF	.000	.000	.250	.000	.250	.000	.934	.000	.000	.934	.000	.000	.000	.000	.000	.500	.830	.250	.000	.820	.925
Passenger Vehicles	0	0	1	0	1	0	473	0	0	473	0	0	0	0	0	2	274	1	0	277	751
% Passenger Vehicles																					
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 H O R T C O U N T S , L L C

735 Maryland St
Columbia, SC 29201

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

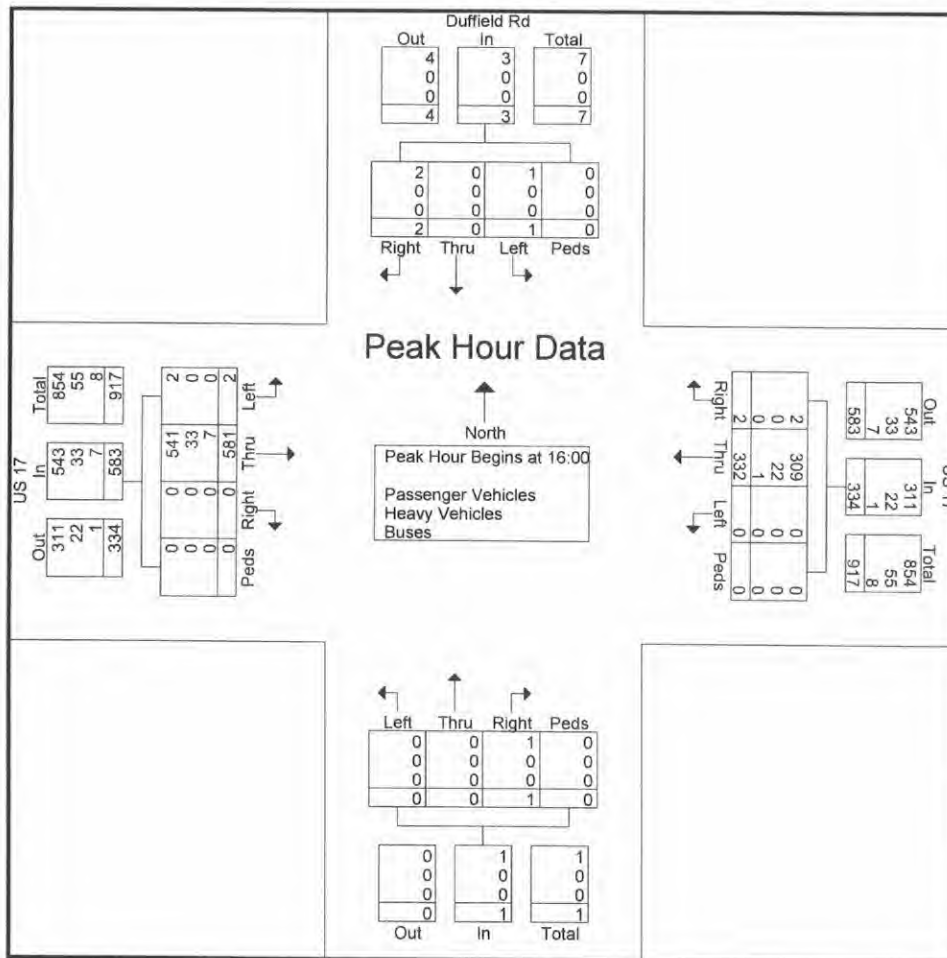
File Name : US 17 @ Duffield Rd

Site Code :

Start Date : 09/19/2019

Page No : 5

Start Time	Duffield Rd Southbound					US 17 Westbound					Northbound					US 17 Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 16:00 to 17:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:00																					
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		0	0	100	0		0.3	99.7	0	0		0.9
PHF	.250	.000	.500	.000	.375	.000	.883	.500	.000	.879	.000	.000	.250	.000	.250	.250	.821	.000	.000	.814	.847
Passenger Vehicles	1	0	2	0	3	0	309	2	0	311	0	0	1	0	1	2	541	0	0	543	858
% Passenger Vehicles																					
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	1.2	0	0	1.2	0.9	



CAPACITY ANALYSES

EXISTING AM
7: US 17 & Jenkins Hill Rd.

11/12/2019

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↖	↑↑	↑↑		↗	
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	-	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
Mvmt Flow	1	329	590	0	1	3

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	590	0	-	0	757 295
Stage 1	-	-	-	-	590 -
Stage 2	-	-	-	-	167 -
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	982	-	-	-	344 701
Stage 1	-	-	-	-	517 -
Stage 2	-	-	-	-	845 -
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	982	-	-	-	344 701
Mov Cap-2 Maneuver	-	-	-	-	476 -
Stage 1	-	-	-	-	516 -
Stage 2	-	-	-	-	845 -

Approach	EB	WB	SB
HCM Control Delay, s	0	0	10.8
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	982	-	-	-	627
HCM Lane V/C Ratio	0.001	-	-	-	0.007
HCM Control Delay (s)	8.7	-	-	-	10.8
HCM Lane LOS	A	-	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0

EXISTING AM
9: US 17 & Duffield Rd.

11/12/2019

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕↑	↕↑		↕	
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	-
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
Mvmt Flow	2	328	589	0	0	1

Major/Minor	Major1	Major2	Minor2		
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	-	-	-	-	5.84 -
Critical Hdwy Stg 2	-	-	-	-	5.84 -
Follow-up Hdwy	2.22	-	-	-	3.52 3.32
Pot Cap-1 Maneuver	982	-	-	-	344 701
Stage 1	-	-	-	-	517 -
Stage 2	-	-	-	-	844 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	982	-	-	-	343 701
Mov Cap-2 Maneuver	-	-	-	-	476 -
Stage 1	-	-	-	-	516 -
Stage 2	-	-	-	-	844 -

Approach	EB	WB	SB
HCM Control Delay, s	0.1	0	10.1
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	982	-	-	-	701
HCM Lane V/C Ratio	0.002	-	-	-	0.002
HCM Control Delay (s)	8.7	0	-	-	10.1
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↘	↑↑	↑↑		↘	
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	-	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
Mvmt Flow	1	653	442	0	0	0

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	442	0	-	0	771 221
Stage 1	-	-	-	-	442 -
Stage 2	-	-	-	-	329 -
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	1114	-	-	-	337 783
Stage 1	-	-	-	-	615 -
Stage 2	-	-	-	-	701 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	1114	-	-	-	337 783
Mov Cap-2 Maneuver	-	-	-	-	517 -
Stage 1	-	-	-	-	614 -
Stage 2	-	-	-	-	701 -

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1114	-	-	-	-
HCM Lane V/C Ratio	0.001	-	-	-	-
HCM Control Delay (s)	8.2	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕↕	↕↕		Y	
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	-	None	-	None	-	None
Storage Length	-	-	-	-	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
Mvmt Flow	1	652	441	1	0	1

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	442	0	-	0	770 221
Stage 1	-	-	-	-	442 -
Stage 2	-	-	-	-	328 -
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	1114	-	-	-	337 783
Stage 1	-	-	-	-	615 -
Stage 2	-	-	-	-	702 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	1114	-	-	-	337 783
Mov Cap-2 Maneuver	-	-	-	-	518 -
Stage 1	-	-	-	-	614 -
Stage 2	-	-	-	-	702 -

Approach	EB	WB	SB
HCM Control Delay, s	0	0	9.6
HCM LOS			A

Minor Lane/Major Mvmt	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	-	-	9.6
HCM Lane LOS	A	A	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	0

EXISTING PM

15: US 17 & Jenkins Hill Rd.

11/12/2019

Intersection

Int Delay, s/veh 0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↘	↑↑	↑↑		↘	
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	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	2	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	704	398	1	0	2

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	399	0	-	0	753 200
Stage 1	-	-	-	-	399 -
Stage 2	-	-	-	-	354 -
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	1156	-	-	-	346 808
Stage 1	-	-	-	-	647 -
Stage 2	-	-	-	-	681 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	1156	-	-	-	346 808
Mov Cap-2 Maneuver	-	-	-	-	528 -
Stage 1	-	-	-	-	646 -
Stage 2	-	-	-	-	681 -

Approach	EB	WB	SB
HCM Control Delay, s	0	0	9.5
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1156	-	-	-	808
HCM Lane V/C Ratio	0.001	-	-	-	0.003
HCM Control Delay (s)	8.1	-	-	-	9.5
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	0

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕↑	↕↑		↕↑	
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
Mvmt Flow	2	693	392	2	1	2

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	394	0	-	0	744 197
Stage 1	-	-	-	-	393 -
Stage 2	-	-	-	-	351 -
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	1161	-	-	-	350 811
Stage 1	-	-	-	-	651 -
Stage 2	-	-	-	-	684 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	1161	-	-	-	349 811
Mov Cap-2 Maneuver	-	-	-	-	531 -
Stage 1	-	-	-	-	649 -
Stage 2	-	-	-	-	684 -

Approach	EB	WB	SB
HCM Control Delay, s	0	0	10.2
HCM LOS			B

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	-	-	10.2
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0

NO-BUILD AM

7: US 17 & Jenkins Hill Rd.

11/12/2019

Intersection

Int Delay, s/veh 0.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↘	↑↑	↑↑		↘	
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	-	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
Mvmt Flow	1	408	732	0	1	4

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	732	0	-	0	938 366
Stage 1	-	-	-	-	732 -
Stage 2	-	-	-	-	206 -
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	868	-	-	-	263 631
Stage 1	-	-	-	-	437 -
Stage 2	-	-	-	-	808 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	868	-	-	-	263 631
Mov Cap-2 Maneuver	-	-	-	-	403 -
Stage 1	-	-	-	-	437 -
Stage 2	-	-	-	-	808 -

Approach	EB	WB	SB
HCM Control Delay, s	0	0	11.6
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	868	-	-	-	553
HCM Lane V/C Ratio	0.002	-	-	-	0.01
HCM Control Delay (s)	9.2	-	-	-	11.6
HCM Lane LOS	A	-	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0

Intersection

Int Delay, s/veh 0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑	↑↑		↑↑	
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	-
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
Mvmt Flow	3	407	731	0	0	1

Major/Minor	Major1	Major2	Minor2		
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	-	-	-	-	5.84 -
Follow-up Hdwy	2.22	-	-	-	3.52 3.32
Pot Cap-1 Maneuver	869	-	-	-	262 631
Stage 1	-	-	-	-	437 -
Stage 2	-	-	-	-	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			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	869	-	-	-	631
HCM Lane V/C Ratio	0.003	-	-	-	0.002
HCM Control Delay (s)	9.2	0	-	-	10.7
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0

Intersection

Int Delay, s/veh 0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↘	↑↑	↑↑		↘	
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	-	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
Mvmt Flow	1	810	549	0	0	0

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	549	0	-	0	956 275
Stage 1	-	-	-	-	549 -
Stage 2	-	-	-	-	407 -
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	1017	-	-	-	256 722
Stage 1	-	-	-	-	542 -
Stage 2	-	-	-	-	641 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	1017	-	-	-	256 722
Mov Cap-2 Maneuver	-	-	-	-	448 -
Stage 1	-	-	-	-	541 -
Stage 2	-	-	-	-	641 -

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	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	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection

Int Delay, s/veh 0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕↕	↕↕		↕↕	
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	-	None	-	None	-	None
Storage Length	-	-	-	-	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
Mvmt Flow	1	809	547	1	0	1

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	548	0	-	0	955 274
Stage 1	-	-	-	-	548 -
Stage 2	-	-	-	-	407 -
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	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	-	-	-	-	542 -
Stage 2	-	-	-	-	641 -

Approach	EB	WB	SB
HCM Control Delay, s	0	0	10
HCM LOS			B

Minor Lane/Major Mvmt	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	-	-	10
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↘	↑↑	↑↑		↘	
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	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	2	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	872	493	1	0	3

Major/Minor	Major1	Major2	Minor2		
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	-	-	-	-	5.84 -
Follow-up Hdwy	2.22	-	-	-	3.52 3.32
Pot Cap-1 Maneuver	1066	-	-	-	265 753
Stage 1	-	-	-	-	579 -
Stage 2	-	-	-	-	618 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	1066	-	-	-	265 753
Mov Cap-2 Maneuver	-	-	-	-	461 -
Stage 1	-	-	-	-	578 -
Stage 2	-	-	-	-	618 -

Approach	EB	WB	SB
HCM Control Delay, s	0	0	9.8
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1066	-	-	-	753
HCM Lane V/C Ratio	0.001	-	-	-	0.004
HCM Control Delay (s)	8.4	-	-	-	9.8
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	0

Intersection

Int Delay, s/veh 0

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕↑	↑↕		↕	↕
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
Mvmt Flow	3	859	486	3	1	3

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	489	0	-	0	924 245
Stage 1	-	-	-	-	488 -
Stage 2	-	-	-	-	436 -
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	1070	-	-	-	268 755
Stage 1	-	-	-	-	583 -
Stage 2	-	-	-	-	619 -
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	1070	-	-	-	267 755
Mov Cap-2 Maneuver	-	-	-	-	462 -
Stage 1	-	-	-	-	580 -
Stage 2	-	-	-	-	619 -

Approach	EB	WB	SB
HCM Control Delay, s	0	0	10.8
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1070	-	-	-	623
HCM Lane V/C Ratio	0.003	-	-	-	0.007
HCM Control Delay (s)	8.4	0	-	-	10.8
HCM Lane LOS	A	A	-	-	B
HCM 95th %ile Q(veh)	0	-	-	-	0

Intersection						
Int Delay, s/veh	4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↘	↑↑	↑↑		↘	
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
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	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
Mvmt Flow	163	555	715	22	48	213

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	737	0	-	0	1330 369
Stage 1	-	-	-	-	726 -
Stage 2	-	-	-	-	604 -
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	865	-	-	-	146 628
Stage 1	-	-	-	-	440 -
Stage 2	-	-	-	-	508 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	865	-	-	-	119 628
Mov Cap-2 Maneuver	-	-	-	-	260 -
Stage 1	-	-	-	-	357 -
Stage 2	-	-	-	-	508 -

Approach	EB	WB	SB
HCM Control Delay, s	2.3	0	20
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	865	-	-	-	498
HCM Lane V/C Ratio	0.189	-	-	-	0.525
HCM Control Delay (s)	10.1	-	-	-	20
HCM Lane LOS	B	-	-	-	C
HCM 95th %tile Q(veh)	0.7	-	-	-	3

Intersection

Int Delay, s/veh 0.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑	↑↑		↑↑	
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
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	92	92	92	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	451	726	63	7	2

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	789	0	-	0	988 395
Stage 1	-	-	-	-	758 -
Stage 2	-	-	-	-	230 -
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	827	-	-	-	244 604
Stage 1	-	-	-	-	423 -
Stage 2	-	-	-	-	786 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	827	-	-	-	243 604
Mov Cap-2 Maneuver	-	-	-	-	388 -
Stage 1	-	-	-	-	422 -
Stage 2	-	-	-	-	786 -

Approach	EB	WB	SB
HCM Control Delay, s	0	0	13.8
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	827	-	-	-	418
HCM Lane V/C Ratio	0.003	-	-	-	0.02
HCM Control Delay (s)	9.4	0	-	-	13.8
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.1

Intersection

Int Delay, s/veh 2.5

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↘	↑↑	↑↑	↗	↘	↗
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	-	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
Mvmt Flow	225	440	675	80	22	83

Major/Minor	Major1	Major2	Minor2
Conflicting Flow All	755	0	0
Stage 1	-	-	675
Stage 2	-	-	670
Critical Hdwy	4.14	-	6.84
Critical Hdwy Stg 1	-	-	5.84
Critical Hdwy Stg 2	-	-	5.84
Follow-up Hdwy	2.22	-	3.52
Pot Cap-1 Maneuver	851	-	143
Stage 1	-	-	467
Stage 2	-	-	470
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	851	-	105
Mov Cap-2 Maneuver	-	-	209
Stage 1	-	-	344
Stage 2	-	-	470

Approach	EB	WB	SB
HCM Control Delay, s	3.6	0	14
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	851	-	-	-	209	658
HCM Lane V/C Ratio	0.264	-	-	-	0.104	0.127
HCM Control Delay (s)	10.7	-	-	-	24.2	11.3
HCM Lane LOS	B	-	-	-	C	B
HCM 95th %tile Q(veh)	1.1	-	-	-	0.3	0.4

Intersection

Int Delay, s/veh 5.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		↑			↓
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	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	60	60	60	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	237	0	18	167	0	25

Major/Minor	Minor1	Major1	Major2	Major3	Major4
Conflicting Flow All	127	102	0	0	185
Stage 1	102	-	-	-	-
Stage 2	25	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218
Pot Cap-1 Maneuver	868	953	-	-	1390
Stage 1	922	-	-	-	-
Stage 2	998	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	868	953	-	-	1390
Mov Cap-2 Maneuver	868	-	-	-	-
Stage 1	922	-	-	-	-
Stage 2	998	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	10.7	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	868	1390
HCM Lane V/C Ratio	-	-	0.273	-
HCM Control Delay (s)	-	-	10.7	0
HCM Lane LOS	-	-	B	A
HCM 95th %tile Q(veh)	-	-	1.1	0

BUILD AM

21: Jenkins Hill Rd. & Bus Access

11/12/2019

Intersection

Int Delay, s/veh 3.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		↑			↓
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	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	60	60	60	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	17	0	2	17	0	8

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	19	11	0
Stage 1	11	-	-
Stage 2	8	-	-
Critical Hdwy	6.42	6.22	4.12
Critical Hdwy Stg 1	5.42	-	-
Critical Hdwy Stg 2	5.42	-	-
Follow-up Hdwy	3.518	3.318	2.218
Pot Cap-1 Maneuver	998	1070	1597
Stage 1	1012	-	-
Stage 2	1015	-	-
Platoon blocked, %			
Mov Cap-1 Maneuver	998	1070	1597
Mov Cap-2 Maneuver	998	-	-
Stage 1	1012	-	-
Stage 2	1015	-	-

Approach	WB	NB	SB
HCM Control Delay, s	8.7	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	998	1597
HCM Lane V/C Ratio	-	-	0.017	-
HCM Control Delay (s)	-	-	8.7	0
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0

Intersection						
Int Delay, s/veh	3.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↙	↑↑	↑↑		↘	
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
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	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
Mvmt Flow	87	882	601	10	73	198

Major/Minor	Major1	Major2	Minor2		
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	-	-	-	172 690
Stage 1	-	-	-	-	507 -
Stage 2	-	-	-	-	502 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	964	-	-	-	157 690
Mov Cap-2 Maneuver	-	-	-	-	325 -
Stage 1	-	-	-	-	461 -
Stage 2	-	-	-	-	502 -

Approach	EB	WB	SB
HCM Control Delay, s	0.8	0	18.8
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	964	-	-	-	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	-	-	-	2.9

Intersection

Int Delay, s/veh 0.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕↑	↑↕		↕	
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
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	92	92	92	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	879	568	20	12	2

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	588	0	-	0	1020 294
Stage 1	-	-	-	-	578 -
Stage 2	-	-	-	-	442 -
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	983	-	-	-	233 702
Stage 1	-	-	-	-	524 -
Stage 2	-	-	-	-	615 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	983	-	-	-	233 702
Mov Cap-2 Maneuver	-	-	-	-	428 -
Stage 1	-	-	-	-	523 -
Stage 2	-	-	-	-	615 -

Approach	EB	WB	SB
HCM Control Delay, s	0	0	13.2
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	983	-	-	-	450
HCM Lane V/C Ratio	0.001	-	-	-	0.03
HCM Control Delay (s)	8.7	0	-	-	13.2
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.1

Intersection						
Int Delay, s/veh	1.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↘	↑↑	↑↑	↗	↘	↗
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	-	-	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
Mvmt Flow	110	858	555	23	35	80

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	578	0	-	0	1204 278
Stage 1	-	-	-	-	555 -
Stage 2	-	-	-	-	649 -
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	992	-	-	-	177 719
Stage 1	-	-	-	-	539 -
Stage 2	-	-	-	-	482 -
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	992	-	-	-	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			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	992	-	-	-	310	719
HCM Lane V/C Ratio	0.111	-	-	-	0.113	0.111
HCM Control Delay (s)	9.1	-	-	-	18.1	10.6
HCM Lane LOS	A	-	-	-	C	B
HCM 95th %tile Q(veh)	0.4	-	-	-	0.4	0.4

BUILD PM SCHOOL
27: Jenkins Hill Rd. & Site Access

11/12/2019

Intersection

Int Delay, s/veh 7.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		↑			↑
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	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	60	60	60	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	255	0	18	78	0	17

Major/Minor	Minor1	Major1	Major2	Major3	Major4
Conflicting Flow All	74	57	0	0	96
Stage 1	57	-	-	-	-
Stage 2	17	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218
Pot Cap-1 Maneuver	930	1009	-	-	1498
Stage 1	966	-	-	-	-
Stage 2	1006	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	930	1009	-	-	1498
Mov Cap-2 Maneuver	930	-	-	-	-
Stage 1	966	-	-	-	-
Stage 2	1006	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	10.3	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	930	1498
HCM Lane V/C Ratio	-	-	0.274	-
HCM Control Delay (s)	-	-	10.3	0
HCM Lane LOS	-	-	B	A
HCM 95th %tile Q(veh)	-	-	1.1	0

BUILD PM SCHOOL
29: Jenkins Hill Rd. & Bus Access

11/12/2019

Intersection

Int Delay, s/veh 3.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	↔		↔			↔
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	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	60	60	60	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	17	0	2	17	0	0

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	13	11	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	-	-
Follow-up Hdwy	3.518	3.318	2.218
Pot Cap-1 Maneuver	1006	1070	1597
Stage 1	1012	-	-
Stage 2	1021	-	-
Platoon blocked, %			
Mov Cap-1 Maneuver	1006	1070	1597
Mov Cap-2 Maneuver	1006	-	-
Stage 1	1012	-	-
Stage 2	1021	-	-

Approach	WB	NB	SB
HCM Control Delay, s	8.6	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	1006	1597	-
HCM Lane V/C Ratio	-	0.017	-	-
HCM Control Delay (s)	-	8.6	0	-
HCM Lane LOS	-	A	A	-
HCM 95th %tile Q(veh)	-	0.1	0	-

Intersection						
Int Delay, s/veh	1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↙	↑↑	↑↑		↘	
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
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	200	-	-	-	0	-
Veh in Median Storage, #	-	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	Major2	Minor2		
Conflicting Flow All	518	0	-	0	1059 259
Stage 1	-	-	-	-	516 -
Stage 2	-	-	-	-	543 -
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	1044	-	-	-	220 740
Stage 1	-	-	-	-	564 -
Stage 2	-	-	-	-	546 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	1044	-	-	-	211 740
Mov Cap-2 Maneuver	-	-	-	-	396 -
Stage 1	-	-	-	-	541 -
Stage 2	-	-	-	-	546 -

Approach	EB	WB	SB
HCM Control Delay, s	0.4	0	12.1
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1044	-	-	-	598
HCM Lane V/C Ratio	0.04	-	-	-	0.153
HCM Control Delay (s)	8.6	-	-	-	12.1
HCM Lane LOS	A	-	-	-	B
HCM 95th %tile Q(veh)	0.1	-	-	-	0.5

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑	↑↑		Y	
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	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	2	-
Grade, %	-	0	0	-	0	-
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

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	509	0	-	0	950 255
Stage 1	-	-	-	-	503 -
Stage 2	-	-	-	-	447 -
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	1052	-	-	-	258 744
Stage 1	-	-	-	-	573 -
Stage 2	-	-	-	-	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	0	11.8
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1052	-	-	-	538
HCM Lane V/C Ratio	0.002	-	-	-	0.015
HCM Control Delay (s)	8.4	0	-	-	11.8
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0

Intersection						
Int Delay, s/veh	0.7					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↘	↑↑	↑↑	↗	↘	↗
Traffic Vol, veh/h	37	748	417	7	7	17
Future Vol, veh/h	37	748	417	7	7	17
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	-	-	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
Mvmt Flow	62	813	453	12	12	28

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	465	0	-	0	984 227
Stage 1	-	-	-	-	453 -
Stage 2	-	-	-	-	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	1093	-	-	-	246 776
Stage 1	-	-	-	-	607 -
Stage 2	-	-	-	-	554 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	1093	-	-	-	232 776
Mov Cap-2 Maneuver	-	-	-	-	406 -
Stage 1	-	-	-	-	572 -
Stage 2	-	-	-	-	554 -

Approach	EB	WB	SB
HCM Control Delay, s	0.6	0	11.1
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	1093	-	-	-	406	776
HCM Lane V/C Ratio	0.056	-	-	-	0.029	0.037
HCM Control Delay (s)	8.5	-	-	-	14.1	9.8
HCM Lane LOS	A	-	-	-	B	A
HCM 95th %tile Q(veh)	0.2	-	-	-	0.1	0.1

BUILD PM

31: Jenkins Hill Rd. & Site Access

11/12/2019

Intersection

Int Delay, s/veh 5.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		T			T
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	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	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	Major1	Major2		
Conflicting Flow All	28	25	0	0	46
Stage 1	25	-	-	-	-
Stage 2	3	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218
Pot Cap-1 Maneuver	987	1051	-	-	1562
Stage 1	998	-	-	-	-
Stage 2	1020	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	987	1051	-	-	1562
Mov Cap-2 Maneuver	987	-	-	-	-
Stage 1	998	-	-	-	-
Stage 2	1020	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	987	1562
HCM Lane V/C Ratio	-	-	0.089	-
HCM Control Delay (s)	-	-	9	0
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0.3	0

BUILD PM

33: Jenkins Hill Rd. & Bus Access

11/12/2019

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		T			T
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
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	60	60	60	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	3	0	0	3

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	6	3	0
Stage 1	3	-	-
Stage 2	3	-	-
Critical Hdwy	6.42	6.22	-
Critical Hdwy Stg 1	5.42	-	-
Critical Hdwy Stg 2	5.42	-	-
Follow-up Hdwy	3.518	3.318	-
Pot Cap-1 Maneuver	1015	1081	-
Stage 1	1020	-	-
Stage 2	1020	-	-
Platoon blocked, %			
Mov Cap-1 Maneuver	1015	1081	-
Mov Cap-2 Maneuver	1015	-	-
Stage 1	1020	-	-
Stage 2	1020	-	-

Approach	WB	NB	SB
HCM Control Delay, s	0	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	1619	-
HCM Lane V/C Ratio	-	-	-	-
HCM Control Delay (s)	-	-	0	0
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0	-

Intersection

Int Delay, s/veh 3.2

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↘	↑↑	↑↑	↗	↘	↗
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	-	None
Storage Length	200	-	-	200	0	200
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
Mvmt Flow	163	555	715	22	48	212

Major/Minor

	Major1	Major2	Minor2
Conflicting Flow All	737	0	0
Stage 1	-	-	715
Stage 2	-	-	604
Critical Hdwy	4.14	-	6.84
Critical Hdwy Stg 1	-	-	5.84
Critical Hdwy Stg 2	-	-	5.84
Follow-up Hdwy	2.22	-	3.52
Pot Cap-1 Maneuver	865	-	149
Stage 1	-	-	446
Stage 2	-	-	508
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	865	-	121
Mov Cap-2 Maneuver	-	-	262
Stage 1	-	-	362
Stage 2	-	-	508

Approach

	EB	WB	SB
HCM Control Delay, s	2.3	0	15
HCM LOS			C

Minor Lane/Major Mvmt

	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	865	-	-	-	262	638
HCM Lane V/C Ratio	0.189	-	-	-	0.184	0.332
HCM Control Delay (s)	10.1	-	-	-	21.8	13.4
HCM Lane LOS	B	-	-	-	C	B
HCM 95th %tile Q(veh)	0.7	-	-	-	0.7	1.4

Intersection

Int Delay, s/veh	2.6					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↘	↑↑	↑↑	↗	↘	↗
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
Sign Control	Free	Free	Free	Free	Stop	Stop
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
Mvmt Flow	225	440	675	143	28	83

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 -

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

BUILD MITIGATED PM SCHOOL
11: US 17 & Jenkins Hill Rd.

11/12/2019

Intersection

Int Delay, s/veh 2.5

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↘	↑↑	↑↑	↗	↘	↗
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
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	200	-	-	200	0	200
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
Mvmt Flow	87	882	601	10	73	198

Major/Minor

	Major1	Major2	Minor2		
Conflicting Flow All	611	0	0	1216	301
Stage 1	-	-	-	601	-
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	-	-	173	695
Stage 1	-	-	-	510	-
Stage 2	-	-	-	502	-
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	964	-	-	157	695
Mov Cap-2 Maneuver	-	-	-	326	-
Stage 1	-	-	-	464	-
Stage 2	-	-	-	502	-

Approach

	EB	WB	SB
HCM Control Delay, s	0.8	0	14.1
HCM LOS			B

Minor Lane/Major Mvmt

	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	964	-	-	-	326	695
HCM Lane V/C Ratio	0.09	-	-	-	0.225	0.285
HCM Control Delay (s)	9.1	-	-	-	19.2	12.2
HCM Lane LOS	A	-	-	-	C	B
HCM 95th %tile Q(veh)	0.3	-	-	-	0.8	1.2

BUILD MITIGATED PM SCHOOL
25: US 17 & Site Access

11/12/2019

Intersection						
Int Delay, s/veh	1.6					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↘	↑↑	↑↑	↗	↘	↗
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	-	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
Mvmt Flow	110	858	555	42	47	80

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	597	0	-	0	1204 278
Stage 1	-	-	-	-	555 -
Stage 2	-	-	-	-	649 -
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	976	-	-	-	177 719
Stage 1	-	-	-	-	539 -
Stage 2	-	-	-	-	482 -
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	976	-	-	-	157 719
Mov Cap-2 Maneuver	-	-	-	-	310 -
Stage 1	-	-	-	-	478 -
Stage 2	-	-	-	-	482 -

Approach	EB	WB	SB
HCM Control Delay, s	1	0	13.6
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	976	-	-	-	310	719
HCM Lane V/C Ratio	0.113	-	-	-	0.151	0.111
HCM Control Delay (s)	9.2	-	-	-	18.7	10.6
HCM Lane LOS	A	-	-	-	C	B
HCM 95th %tile Q(veh)	0.4	-	-	-	0.5	0.4

Intersection

Int Delay, s/veh 0.9

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↘	↑↑	↑↑	↗	↘	↗
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
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	200	-	-	200	0	200
Veh in Median Storage, #	-	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	Major2	Minor2
Conflicting Flow All	518	0	0
Stage 1	-	-	513
Stage 2	-	-	543
Critical Hdwy	4.14	-	6.84
Critical Hdwy Stg 1	-	-	5.84
Critical Hdwy Stg 2	-	-	5.84
Follow-up Hdwy	2.22	-	3.52
Pot Cap-1 Maneuver	1044	-	221
Stage 1	-	-	566
Stage 2	-	-	546
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	1044	-	212
Mov Cap-2 Maneuver	-	-	397
Stage 1	-	-	543
Stage 2	-	-	546

Approach	EB	WB	SB
HCM Control Delay, s	0.4	0	11.5
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	1044	-	-	-	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	A	-	-	-	B	B
HCM 95th %tile Q(veh)	0.1	-	-	-	0.2	0.3

Intersection						
Int Delay, s/veh	0.7					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↖	↗	↗	↖	↖	↗
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	-	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
Mvmt Flow	62	813	453	22	15	28

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	475	0	-	0	984 227
Stage 1	-	-	-	-	453 -
Stage 2	-	-	-	-	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 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	1083	-	-	-	232 776
Mov Cap-2 Maneuver	-	-	-	-	406 -
Stage 1	-	-	-	-	572 -
Stage 2	-	-	-	-	554 -

Approach	EB	WB	SB
HCM Control Delay, s	0.6	0	11.3
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	1083	-	-	-	406	776
HCM Lane V/C Ratio	0.057	-	-	-	0.037	0.037
HCM Control Delay (s)	8.5	-	-	-	14.2	9.8
HCM Lane LOS	A	-	-	-	B	A
HCM 95th %tile Q(veh)	0.2	-	-	-	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	REC? (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 structures 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



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www.edrnet.com

EDR Aerial Photo Decade Package

08/16/19

Site Name:

Rice/Kaiser Tract
N HIGHWAY 17
MC CLELLANVILLE, SC 29451
EDR Inquiry # 5753289.8

Client Name:

ECS Southeast, LLP
3820 Faber Place Drive
North Charleston, SC 29405
Contact: Nicole Miller



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Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
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

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INQUIRY #: 5753289.8

YEAR: 2017

— = 500'





INQUIRY #: 5753289.8

YEAR: 2013

— = 500'





INQUIRY #: 5753289.8

YEAR: 2009

— = 500'





INQUIRY #: 5753289.8

YEAR: 2005

— = 500'





INQUIRY #: 5753289.8

YEAR: 1994

= 750'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.

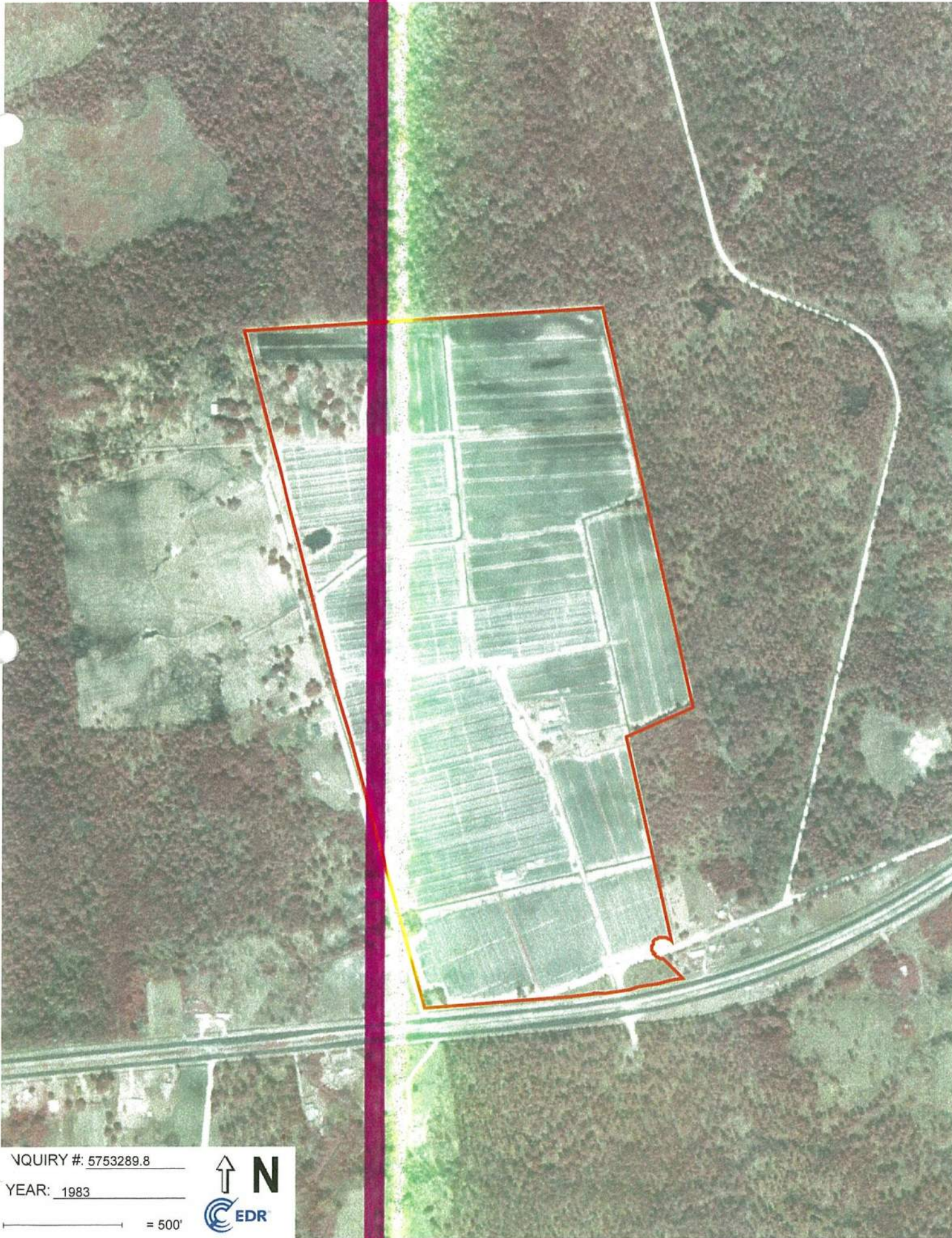


INQUIRY #: 5753289.8

YEAR: 1989

— = 500'





INQUIRY #: 5753289.8

YEAR: 1983

— = 500'





INQUIRY #: 5753289.8

YEAR: 1979

— = 500'





IQUIRY #: 5753289.8

YEAR: 1968

— = 500'





IQUIRY #: 5753289.8

YEAR: 1960

_____ = 500'





INQUIRY #: 5753289.8

YEAR: 1958

_____ = 500'





INQUIRY #: 5753289.8

YEAR: 1953

— = 500'





INQUIRY #: 5753289.8

YEAR: 1941

— = 500'



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

Inquiry Number: 5753289.3

August 14, 2019

Certified Sanborn® Map Report



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08/14/19

Site Name:

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

Client Name:

ECS Southeast, LLP
3820 Faber Place Drive
North Charleston, SC 29405
Contact: Nicole Miller



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Certified Sanborn Results:

Certification # 543B-44E3-AF30
PO # Rice/Kaiser Tract
Project Rice/Kaiser Tract



Sanborn® Library search results

Certification #: 543B-44E3-AF30

UNMAPPED PROPERTY

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- ✓ 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

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EDR Historical Topo Map Report

08/14/19

Site Name:

Rice/Kaiser Tract
N HIGHWAY 17
MC CLELLANVILLE, SC 29456
EDR Inquiry # 5753289.4

Client Name:

ECS Southeast, LLP
3820 Faber Place Drive
North Charleston, SC 29405
Contact: Nicole Miller



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. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

Coordinates:

P.O.# Rice/Kaiser Tract
Project: Rice/Kaiser Tract

Latitude: 33.043741 33° 2' 37" North
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

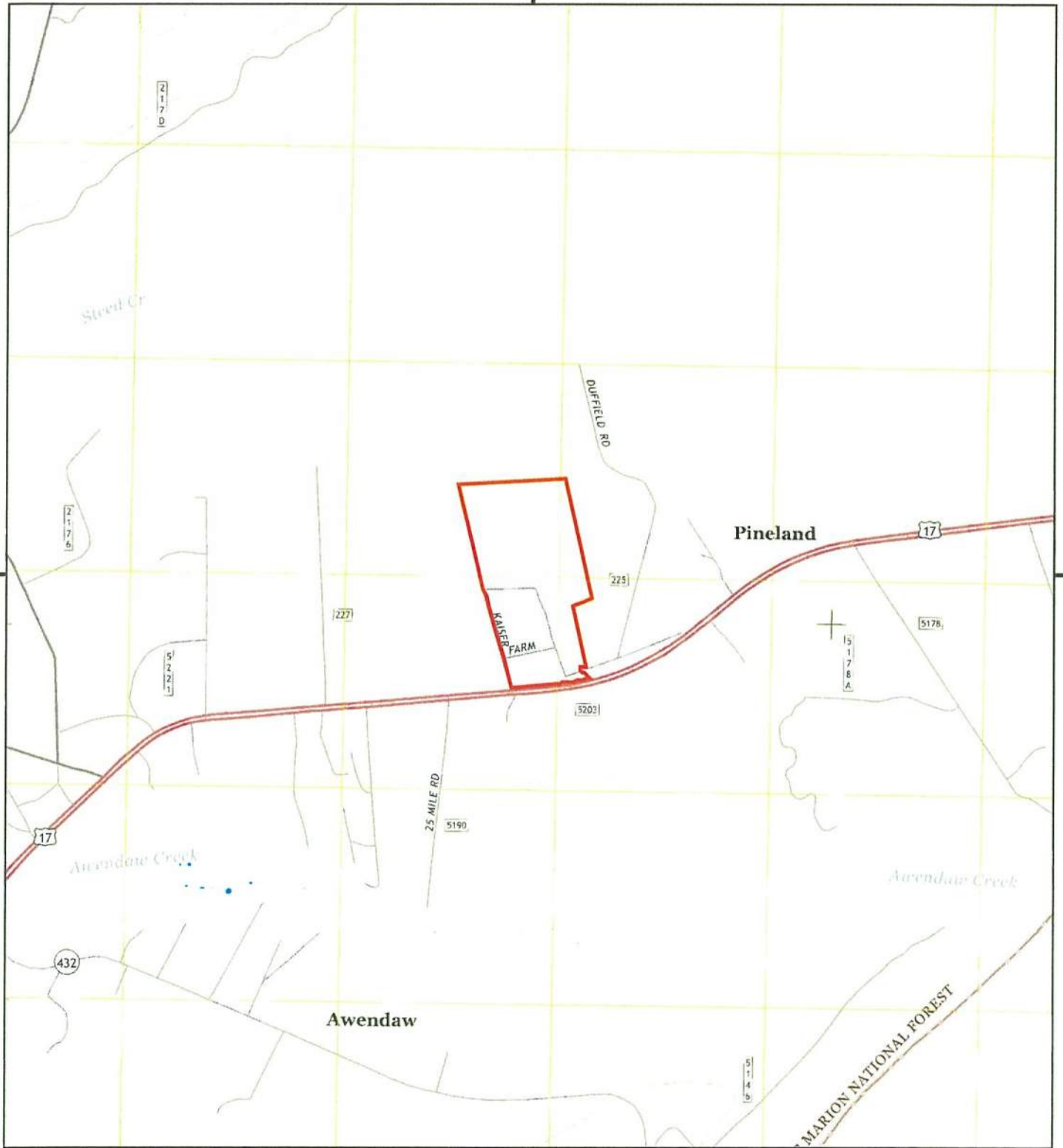
7.5-minute, 24000
Aerial Photo Revised 1973

1943 Source Sheets

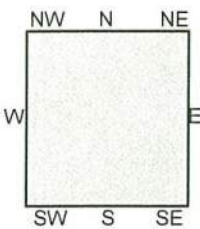


Awendaw

7.5-minute, 24000
Aerial Photo Revised 1942



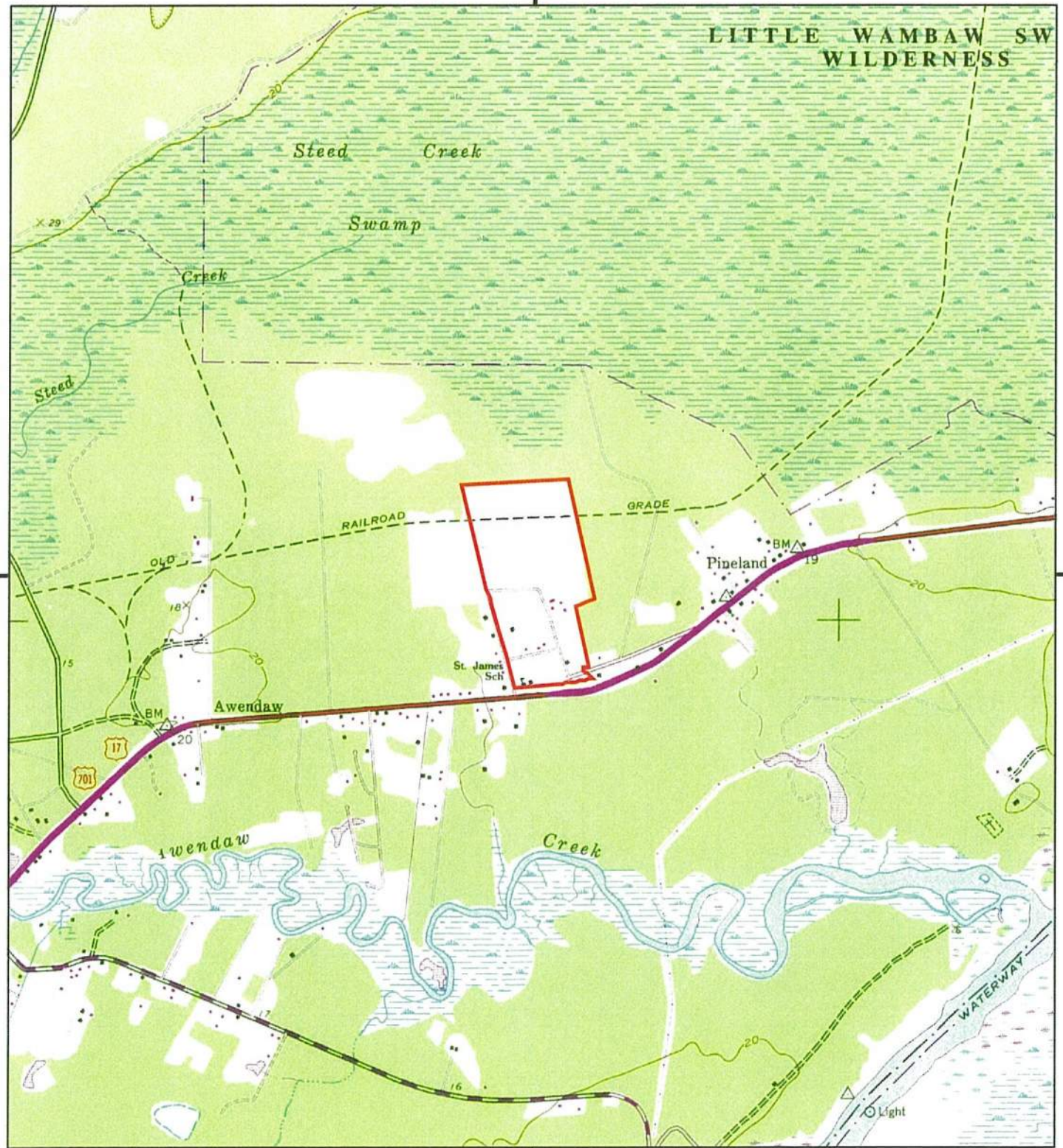
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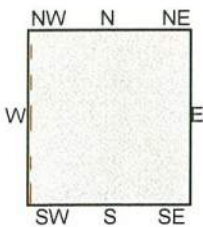
TP, Awendaw, 2014, 7.5-minute

SITE NAME: Rice/Kaiser Tract
 ADDRESS: N HIGHWAY 17
 MC CLELLANVILLE, SC 29458
 CLIENT: ECS Southeast, LLP





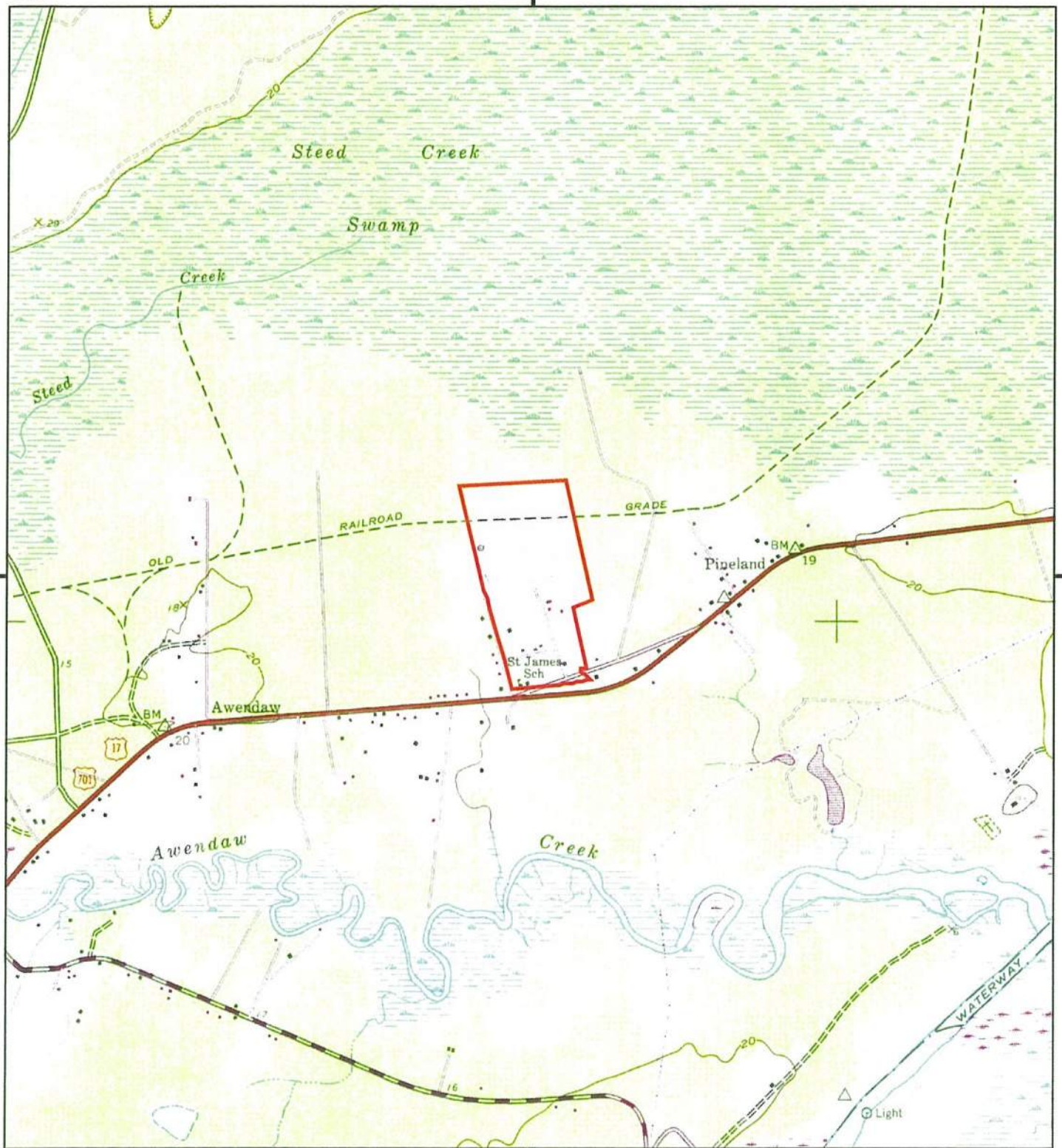
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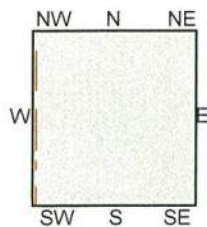
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SITE NAME: Rice/Kaiser Tract
 ADDRESS: N HIGHWAY 17
 MC CLELLANVILLE, SC 29458
 CLIENT: ECS Southeast, LLP





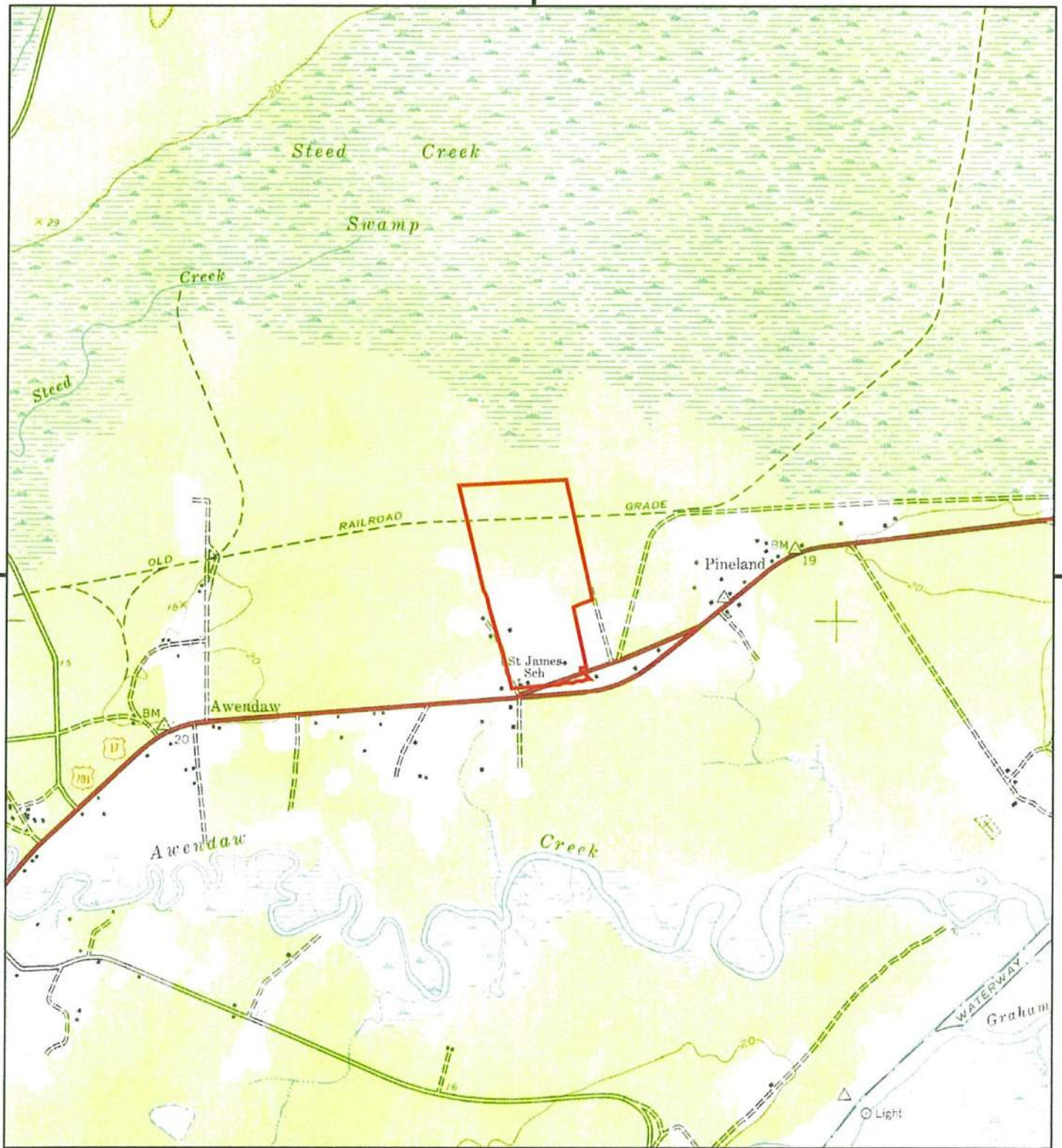
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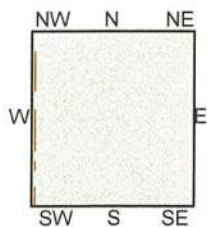
TP, Awendaw, 1973, 7.5-minute

SITE NAME: Rice/Kaiser Tract
 ADDRESS: N HIGHWAY 17
 MC CLELLANVILLE, SC 29458
 CLIENT: ECS Southeast, LLP





This report includes information from the following map sheet(s).



TP, Awendaw, 1943, 7.5-minute

SITE NAME: Rice/Kaiser Tract
ADDRESS: N HIGHWAY 17
MC CLELLANVILLE, SC 29458
CLIENT: ECS Southeast, LLP



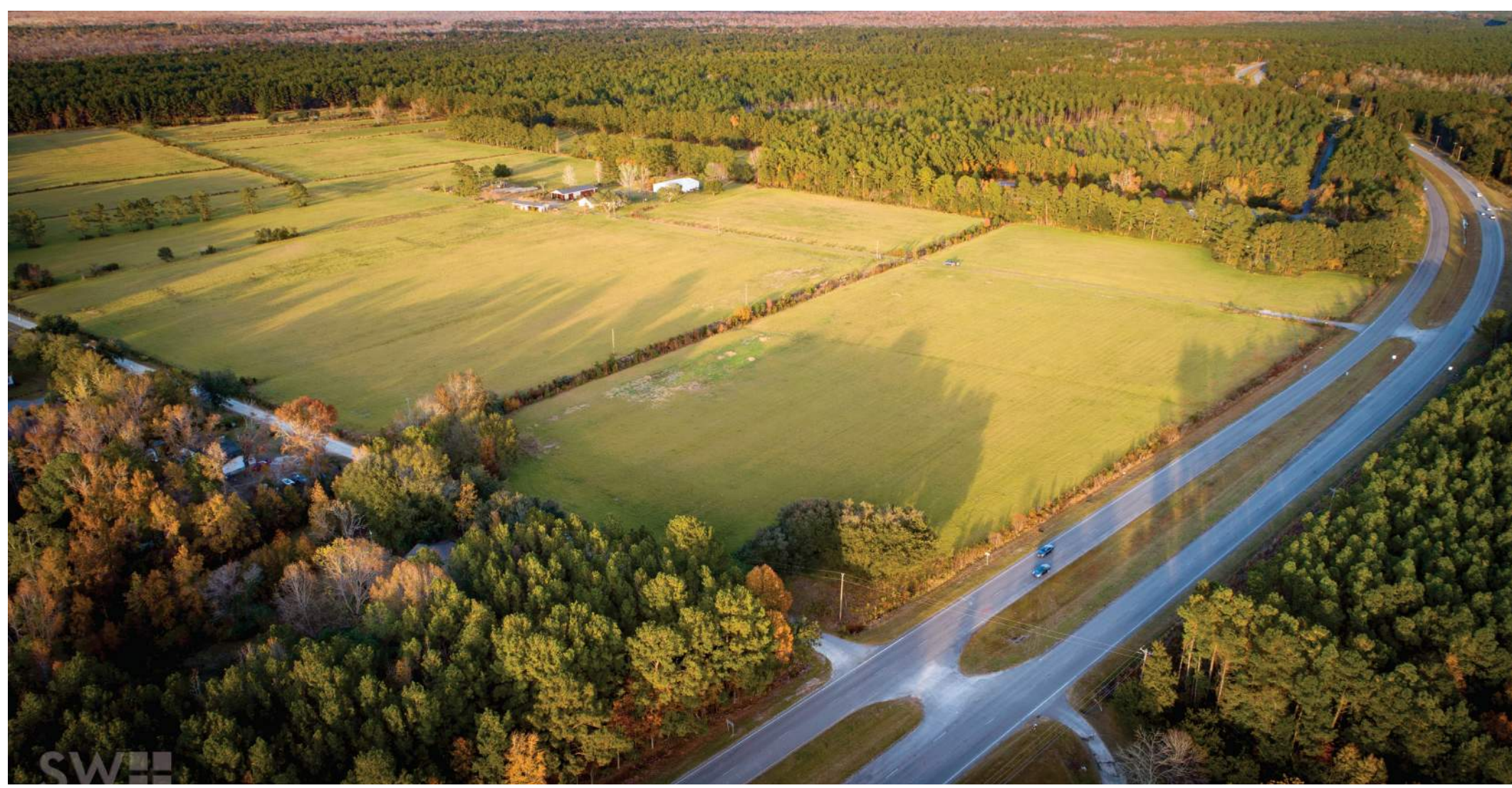
Rice/Kaiser Tract

N HIGHWAY 17
MC CLELLANVILLE, SC 29458

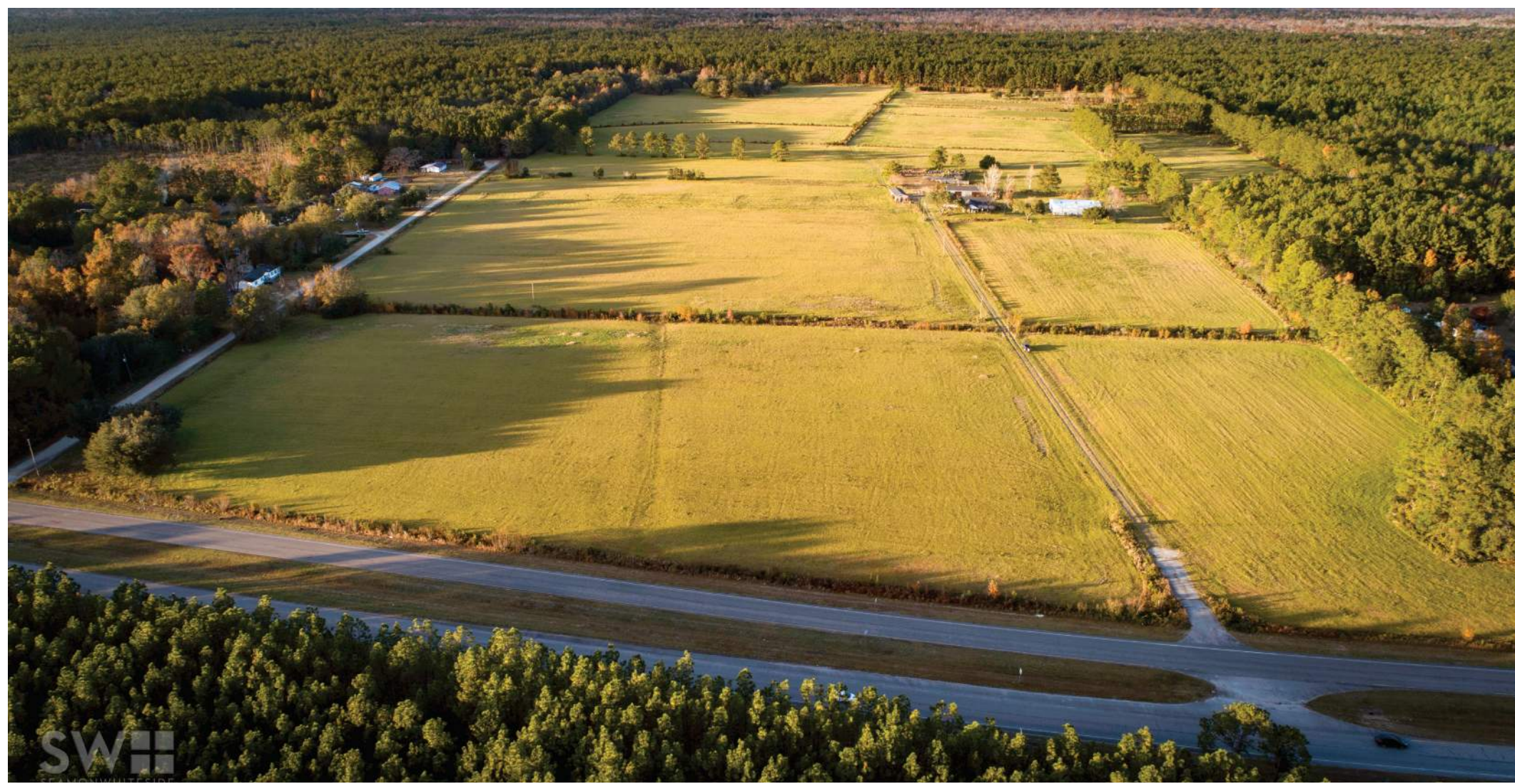
Inquiry Number: 5753289.5
August 19, 2019

The EDR-City Directory Image Report

**APPENDIX L:
SITE PHOTOGRAPHY**



1 VIEW LOOKING NORTHEAST AT SITE FROM HWY. 17



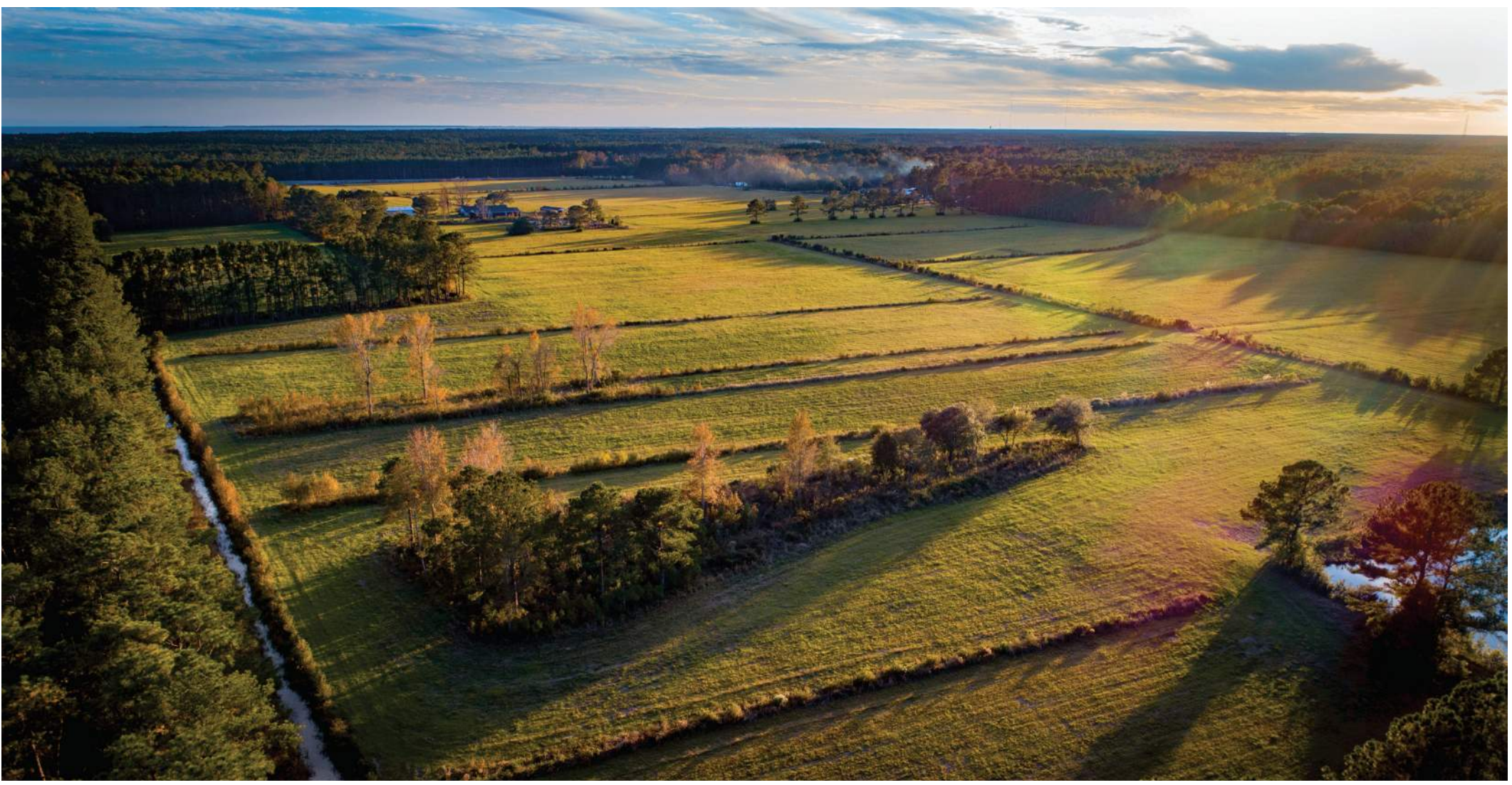
2 VIEW LOOKING NORTH AT SITE FROM HWY. 17



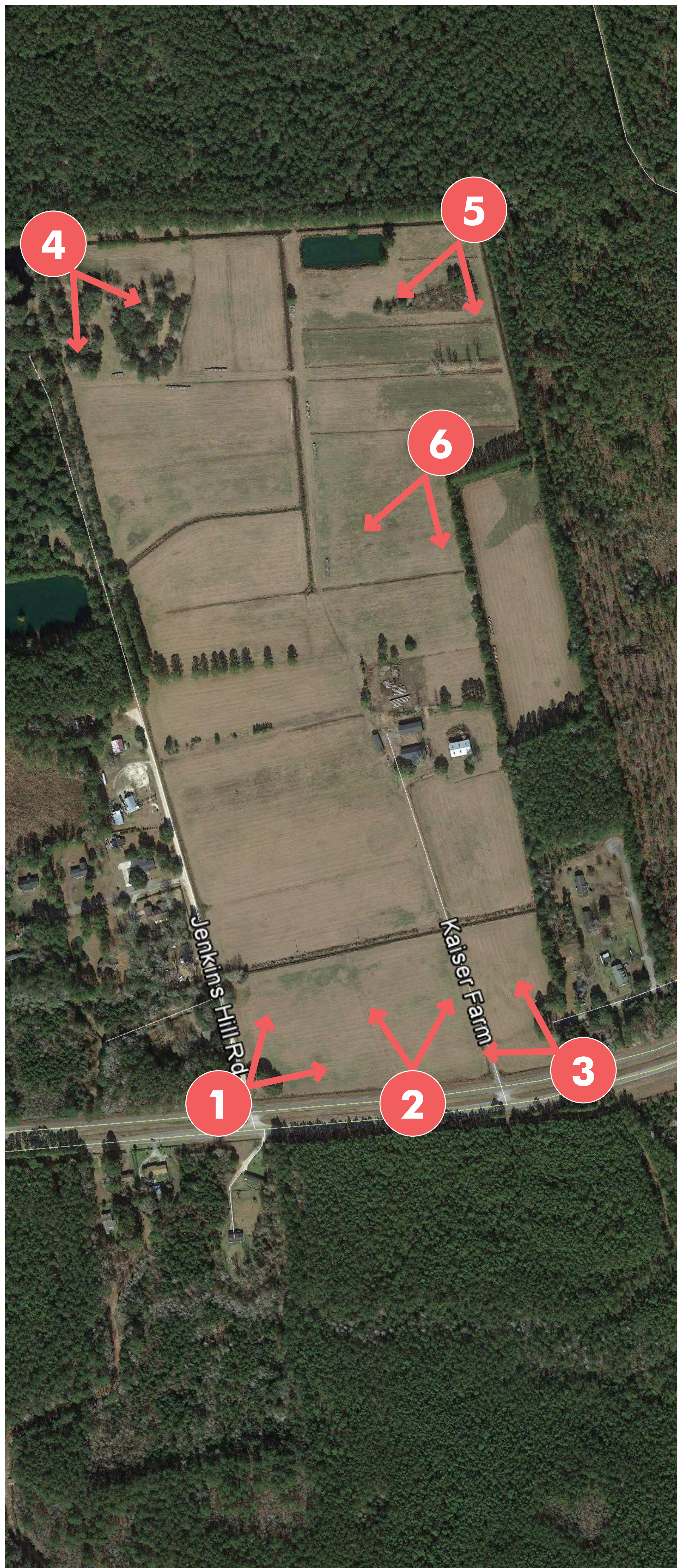
3 VIEW LOOKING NORTHWEST AT SITE FROM HWY. 17



4 VIEW LOOKING SOUTHEAST



5 VIEW LOOKING SOUTHWEST



AERIAL OF PROJECT SITE



6 VIEW LOOKING SOUTHWEST



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



APPENDIX M:
LETTERS OF COORDINATION



**Berkeley Electric
Cooperative, Inc.**

® Your Touchstone Energy® Cooperative 

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

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.

Post Office Box 1234
Moncks Corner, SC 29461
(843) 761-8200
Fax (843) 572-1280

Post Office Box 128
Johns Island, SC 29457
(843) 559-2458
Fax (843) 559-3876

Post Office Box 1549
Goose Creek, SC 29445
(843) 553-5020
Fax (843) 553-6761

Post Office Box 340
Awendaw, SC 29429
(843) 884-7525
Fax (843) 884-3044

www.berkeleyelectric.coop



DAVID ABRAMS, JD
Director

Emergency Medical Services

843.202.6700
Fax: 843.202.6712
dabrams@charlestoncounty.org
Lonnie Hamilton, III Public Services Building
4045 Bridge View Drive, Suite B309
North Charleston, SC 29405-7464

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.



SCHOOL SITE INFORMATION

Date Reviewed	<input type="text" value="2/4/2020"/>
County	<input type="text" value="Charleston"/>
Location	<input type="text" value="US 17 & Jenkins Hill Rd (Off-System) with Duffield Rd (Off-System)"/>
School Type	<input type="text" value="Lincoln Middle & High Schools - Combined Facility"/>

Recommendations

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.

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 US 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 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.

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 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.

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 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.

All 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 or below ground utility relocations. Therefore, the School District should anticipate and budget accordingly for these improvements as part of the overall construction costs.

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.ccsso.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

Administrative Office

3691 Leeds Avenue
N. Charleston, SC 29405
~ Sheriff ~
Voice (843) 554-2230
Fax (843) 554-2243

Law Enforcement Division

3691 Leeds Avenue
N. Charleston, SC 29405
~ Patrol ~
Voice (843) 202-1700
Fax (843) 554-2234

Al Cannon Detention Center

3841 Leeds Avenue
N. Charleston, SC 29405
Voice (843) 529-7300
Fax (843) 529-7406

Judicial Center

100 Broad Street, Suite 381
Charleston, SC 29401
Voice (843) 958-2100
Fax (843) 958-2128

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

ZONING CHANGE APPLICATION



Zoning/Planning
Department
Lonnie Hamilton, III
Public Services Building
4045 Bridge View Drive
North Charleston, SC 29405
(843) 202-7200
1-800-524-7832
Fax: (843) 202-7222

CASE ZZEZ-02-20-00114 PD 711-00-00-052

PROPERTY INFORMATION

CURRENT DISTRICT AG-10 REQUESTED DISTRICT PD

PARCEL ID(S) 7110000052

CITY/AREA OF COUNTY Mt. Pleasant, SC 29458

STREET ADDRESS 0 N. Highway 17 ACRES 107.2 ac.

DEED RECORDED: BOOK 0510 PAGE 591 DATE 10/13/2015

PLAT RECORDED: BOOK XXX-UNREC PAGE _____ DATE _____ APPROVAL # _____

APPLICANT—OWNER—REPRESENTATIVE

APPLICANT Seamon Whiteside, & Associates HOME PHONE _____

MAIL ADDRESS 501 Wando Park Blvd. Suite 201 WORK PHONE 843-884-1667

CITY, STATE, ZIP Mt. Pleasant, SC 29464 CELL PHONE _____

EMAIL mmartinich@seamonwhiteside.cc

OWNER Quarry Lake Plantation LLC HOME PHONE _____
(IF OTHER THAN APPLICANT)

MAIL ADDRESS PO Box 973 WORK PHONE _____

CITY, STATE, ZIP Charleston, SC 29403 CELL PHONE _____

EMAIL _____

REPRESENTATIVE Angela Barnette, CCSD HOME PHONE _____
(IF OTHER THAN APPLICANT)

MAIL ADDRESS 3999 Bridge View Drive WORK PHONE (843) 566-1995

CITY, STATE, ZIP North Charleston SC 29405 CELL PHONE _____

EMAIL angela_barnette@charleston.k12.sc.u

CERTIFICATION

<p><i>This application will be returned to the applicant within fifteen (15) business days if these items are not submitted with the application or if any are found to be inaccurate:</i></p>	✓ Copy of <u>Approved and Recorded Plat</u> showing present boundaries of property
	✓ Copy of <u>Current Recorded Deed</u> to the property (Owner's signature must match documentation.)
	✓ Copy of <u>Signed Restricted Covenants Affidavit</u>
	✓ Copy of <u>Signed Posted Notice Affidavit</u>
	✓ <u>Fee \$150.00 plus \$10.00 per acre (Fees vary for Planned Developments.)</u>

I (we) certify that Angela Barnette is the authorized representative for my (our) zoning change request. I also accept the above requirements for submitting my zoning change application. To the best of my knowledge, all required information has been provided and all information is correct.

Signature of Owner(s) Angela Barnette Date Feb 27, 2020 Signature of Applicant/ Representative (if other than owner) [Signature] Date 2-28-2020

Planner's Signature _____ Date _____ Zoning Inspector's Signature _____ Date _____

OFFICE USE ONLY

Amount Received _____ Cash ? Check? # _____ Invoice Number _____

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.

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

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

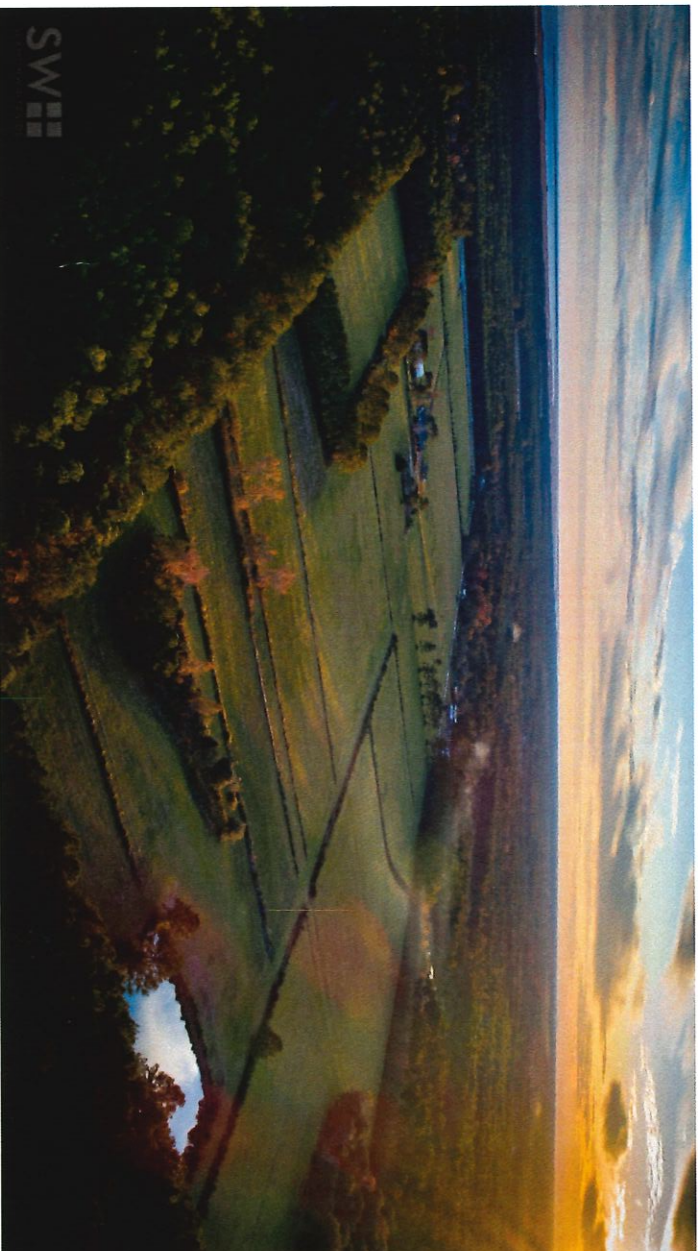
Wando Mt. Pleasant Library

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

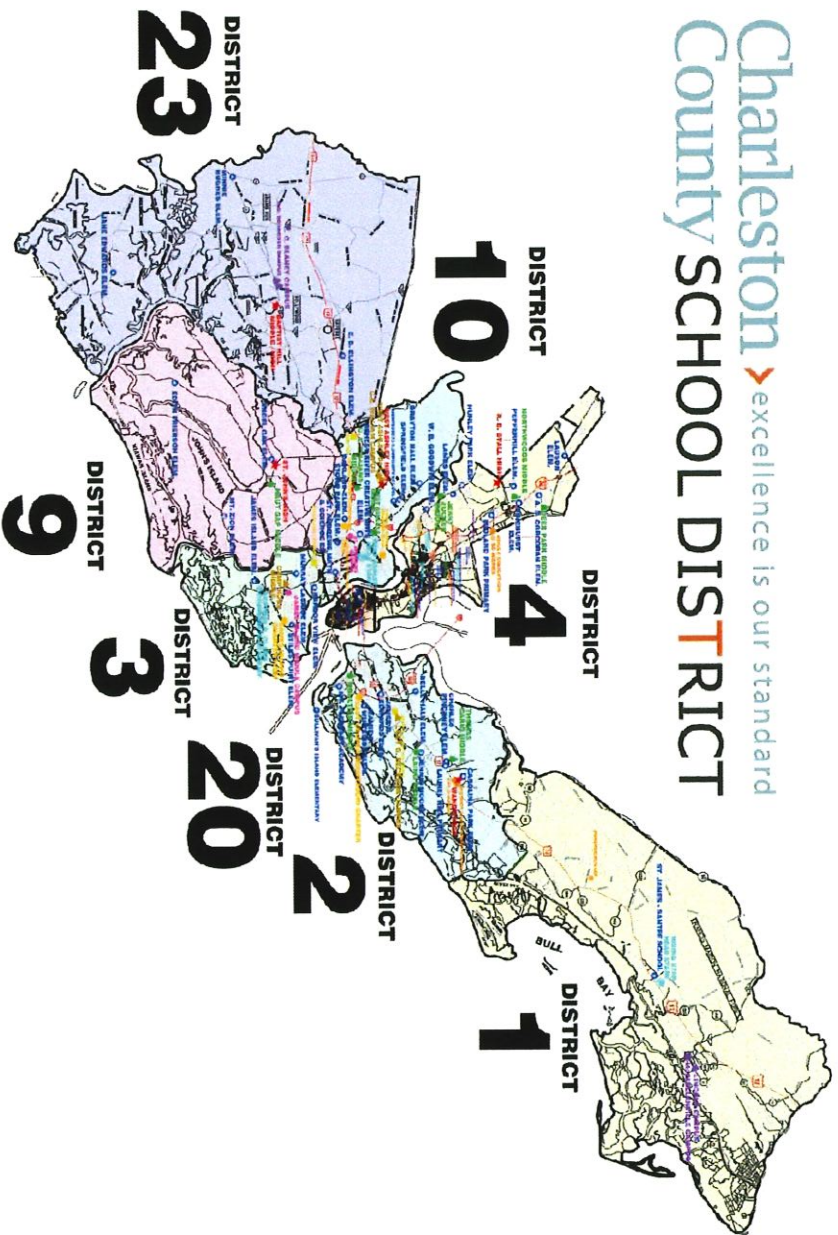


Planned Development Proposal

Planning for the future
Middle/High School
December 5, 2019

TABLE OF CONTENTS

Charleston  excellence is our standard
County SCHOOL DISTRICT



1. Introduction & Welcome
2. Meeting and Project Goals
3. Context and Site
4. Planned Development
5. Open House Q&A

INTRODUCTION & WELCOME

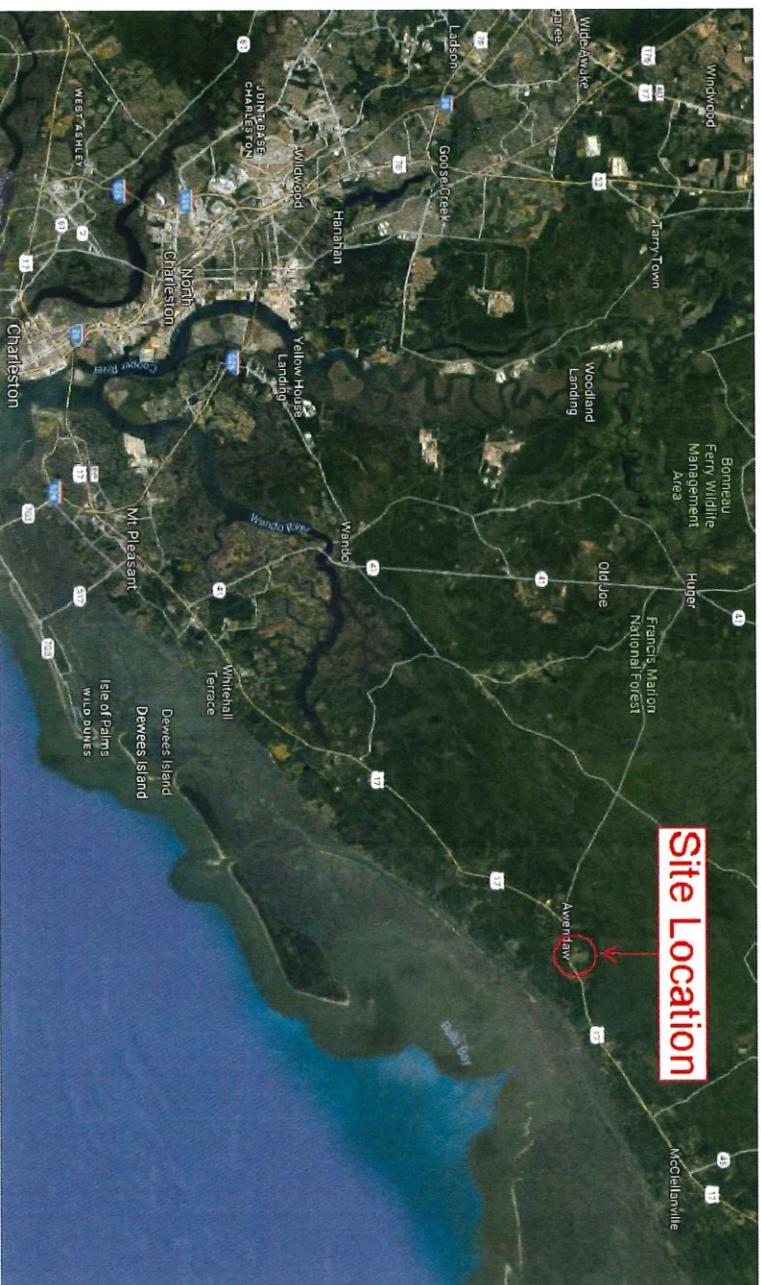


- Director of Planning and Real Estate, Charleston County School District
- Seamon Whiteside Consultants
- Landscape Architecture, Engineering, Site Planning

MISSION AND PROJECT GOALS

- Inform the community about the Middle/High School (MS/HS) Planned Development (PD) in District 1
- Review the existing conditions and Planned Development procedure
- Create a transparent process
- Gain input and feedback on the MS/HS in District 1
- Incorporate feedback in the PD
- Develop PD with public support

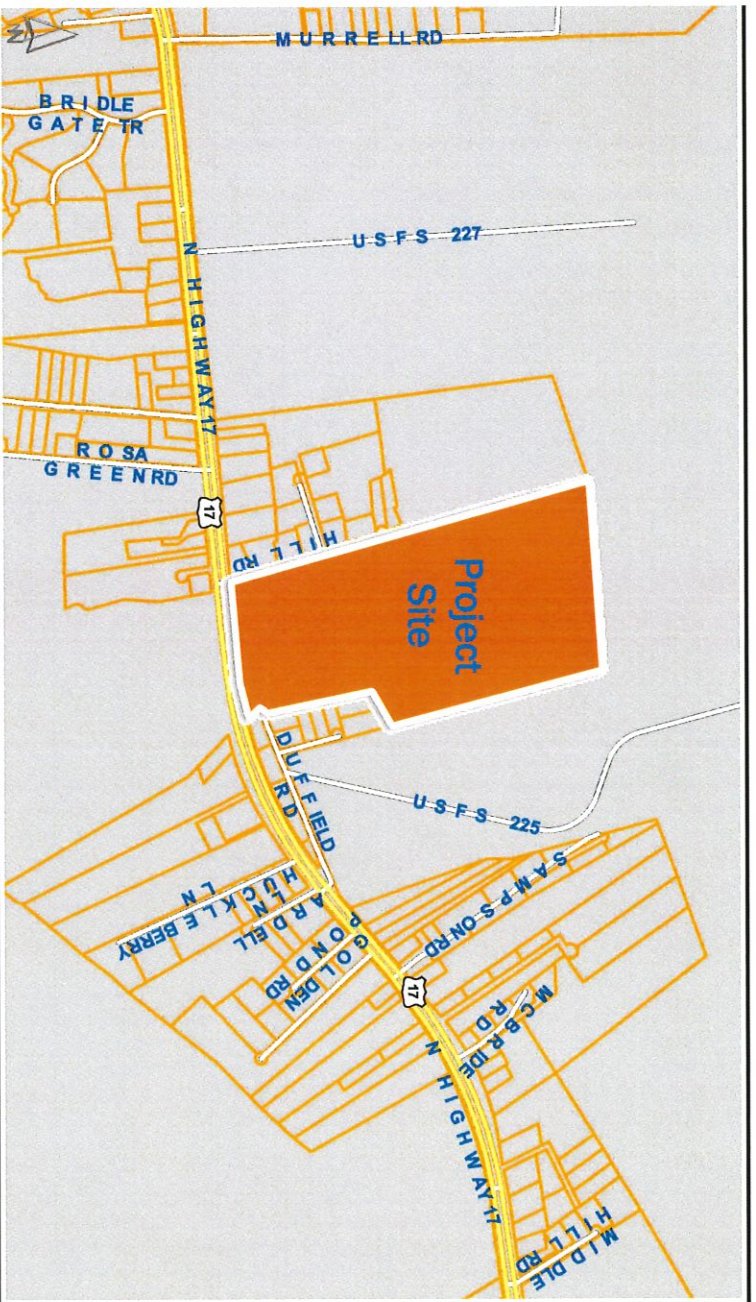
CONTEXT AND SITE



Context

- CCSD Board of Trustees instructed staff to acquire a piece of property for a future MS/HS
- Various sites have been evaluated since directive
- Size of school
 - 500 Middle School
 - 500 High School
 - 1,000 Students Combined
- Build out has yet to be determined

CONTEXT & SITE



Kaiser tract

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, accuracy, timeliness or completeness of any of the information provided. The County explicitly disclaims all representations and warranties. The County is not liable for any damages or consequences of 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
COUNTY
SOUTH CAROLINA
Author: Charleston County SC
Date: 2/18/2019

Project Data

- +/- 107 highland acres
- 0 marsh acres
- Site is currently used as a farm
- Property is has few trees
- Great access
 - Located on Highway 17
- Ability to support school facilities & programming

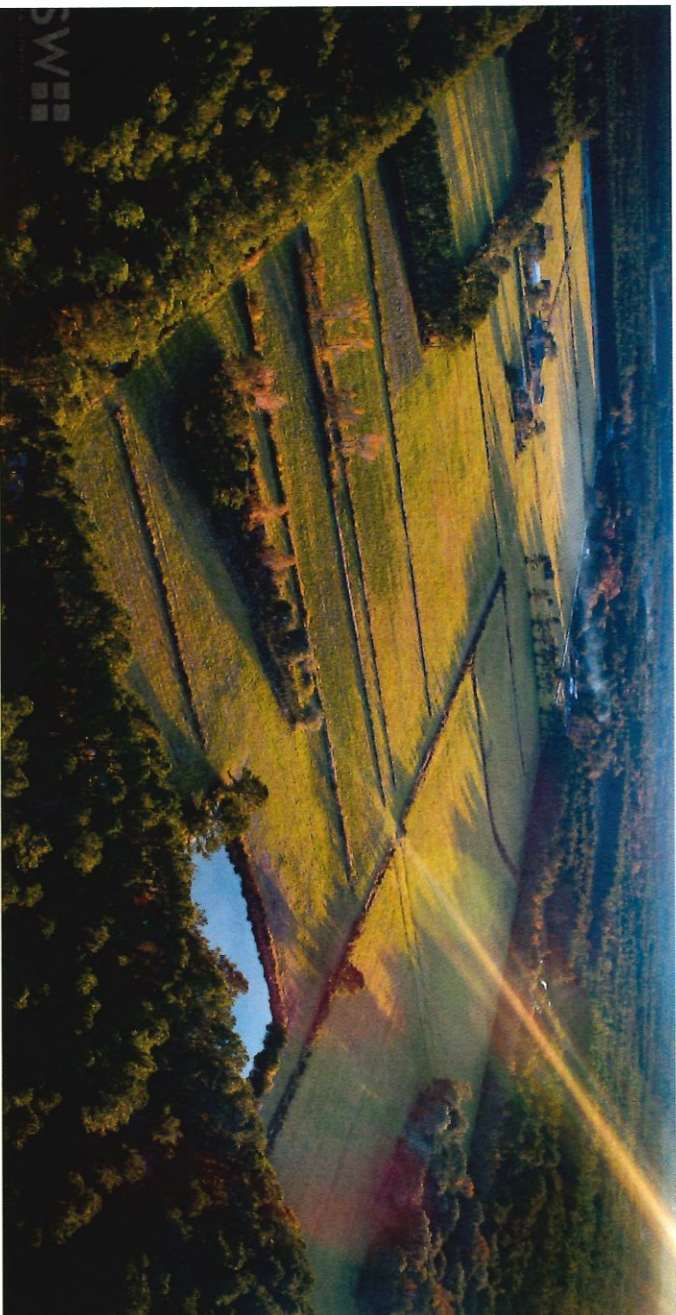
WHAT IS A PLANNED DEVELOPMENT?



Planned Development

- The PD, Planned Development, zoning district regulations are intended to **encourage achievement of the goals of the Charleston County Comprehensive Plan** and to allow flexibility in development of property that proposes a single or multiple use (s) that will result in **improved design, character, and quality** of new or redesigned developments and preserve natural and scenic features of open spaces.

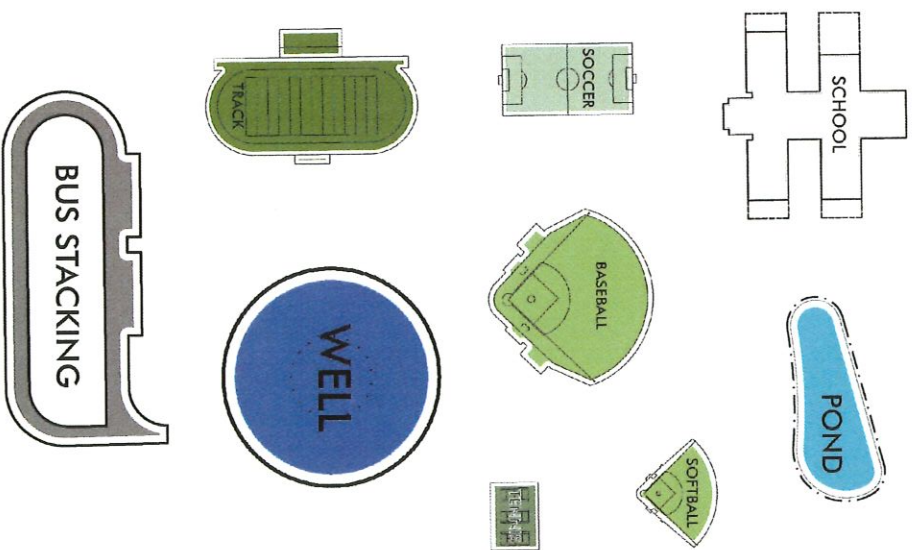
PLANNED DEVELOPMENT



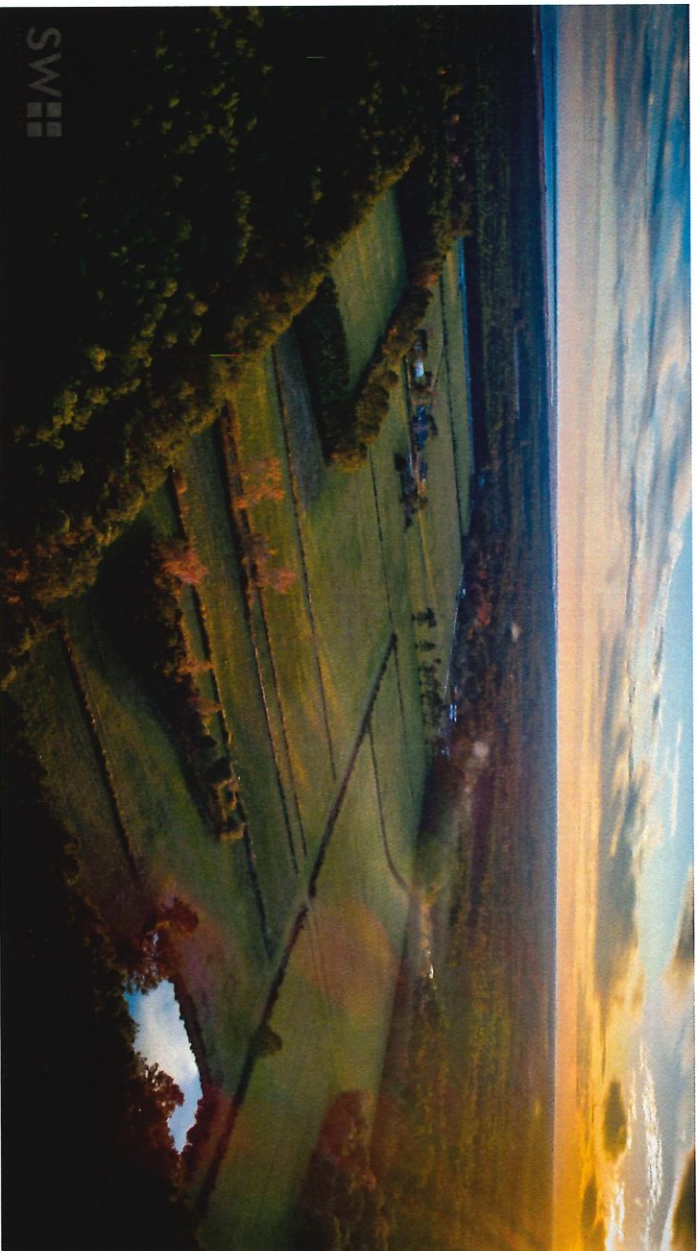
PD Process & Schedule

- December 9th - Public Workshop at Charleston County Planning Commission
- Month of January – 2nd Community Meeting
- February 28th – Submit PD
- April 13th – Planning Commission Meeting
- May/June – County Council
 - (3 Readings)

OPEN HOUSE Q&A



- Visit Table 1, 2, or 3 – look on your nametag to find your table number
- Play the Chip Game!
- Place program elements on the plan where you would like to see them
- Provide feedback with comment sheets and to consultant team member



Planned Development: Future Middle/High School in Awendaw/McClellanville

Community Workshop 2

Planning for the future
Middle/High School
January 21, 2020

Goals

- Review status to date of HS/MS in Awendaw/McClellanville
- Review the existing conditions and Planned Development procedure
- Review conceptual plan
- Address questions from 1st Community Meeting
- Gain input and feedback on the MS/HS
- Create a transparent process

PLANNED DEVELOPMENT - SCHEDULE

Completed!
Community Meeting 1
December 5

Completed!
Public Workshop-
Planning Commission
December 9th

Community Meeting 2
Awendaw/
Mt. Pleasant
January 21/23

Submit PD to
County
February 28

Planning Commission
Meeting
April 13

Public Hearing/County
Council- 5/5
Planning/Public Works
Committee- 5/14
County Council
(3 Readings) -
5/19, 5/28, 6/2

PUBLIC MEETING



- Thursday, Dec. 5th, 2019
- St. James Santee Elementary
- **58 Participants**
- Presentation, Open House & Game
- Presentation posted on CCSD Website
- Continued outreach to participants

PUBLIC MEETING

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"Thank you!"

"Ensure funding.."

"What does this mean for residents for Jenkins Hill Road?"

"It's greatly needed, for a school."

"I like the location and appreciate the opportunity to share input."

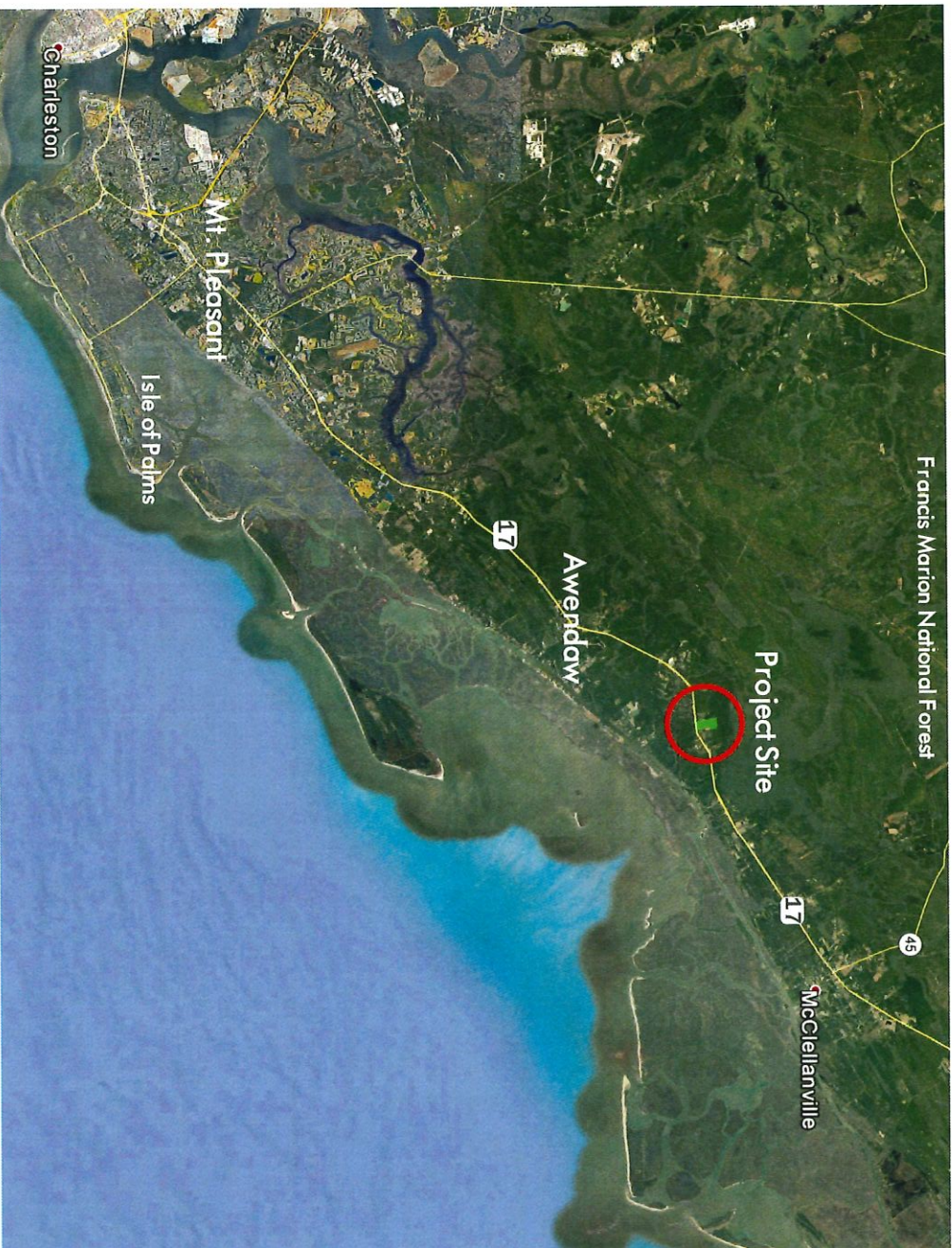
"I like plan and believe it will be beneficial to the community."

Who will attend this school?

FEEDBACK

- Community access
- State of the art
- Facilities similar to other schools
 - Technology
 - Band, Music and Theater
 - Vocational education
 - Swimming pool
 - Football Field
- When will the school be built?
- General concern over attendance lines
- Concern for current students leaving Wando High & Mt. Pleasant schools

CONTEXT AND SITE



Context

- School Located between Awendaw/McClellanville
- 500 Middle School
- 500 High School
- 1,000 Students Combined

CONTEXT & SITE



Project Data

- +/- 107 highland acres
- 0 marsh acres
- Site is currently used as a farm
- Property has few trees
- Great access
- Located on Highway 17
- Ability to support school facilities & programming

CURRENT ZONING

CURRENT ZONING

- AG-10, Agricultural Preservation District
- Implements the Agricultural Preservation policies of the Comprehensive Plan

- Comp Plan Rural Area Future Land Use:

"Designating prominent locations with good access and visibility from major roads for civic or community-oriented uses such as churches and schools" pg. 28

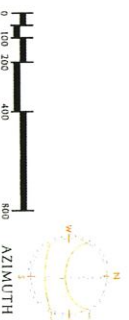
- Maximum Density = 10 dwelling unit
- (1 dwelling unit per 10 acres)



Charleston County SC

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.

CONCEPTUAL PLAN



- Plan elements can change based on community feedback
- Plan Elements
 - School
 - Access
 - Bus Stacking
 - Parking
 - Sports Fields (Football, Track)
 - Open Space
 - Buffers
 - Waste Treatment Area & We

CONCEPT PLAN

OPEN HOUSE Q&A



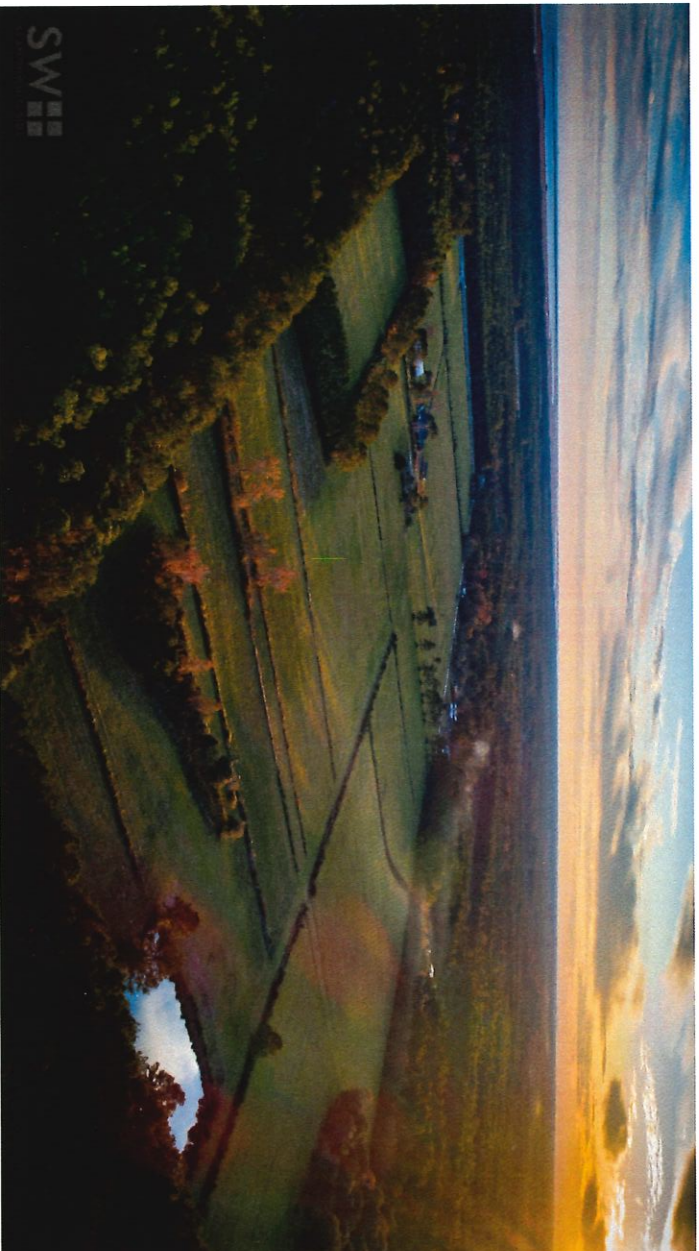
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seamonwhiteside.com

STAY IN THE LOOP!

Visit CCD's Planning and Real Estate
Webpage for updates

https://www.ccsdschools.com/divisions/operations/operational_planning



Planned Development: Future Middle/High School in Awendaw

Community Workshop 2

Planning for the future
Middle/High School
January 21, 2020
January 23, 2020

Goals

- Review status to date of HS/MS in Awendaw
- Review the existing conditions and Planned Development procedure
- Review conceptual plan
- Address questions from 1st Community Meeting
- Gain input and feedback on the MS/HS
- Create a transparent process

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PUBLIC MEETING

PUBLIC MEETING #1

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PLANNED DEVELOPMENT - SCHEDULE

Completed!
Community Meeting 1
December 5

Completed!
Public Workshop-
Planning Commission
December 9th

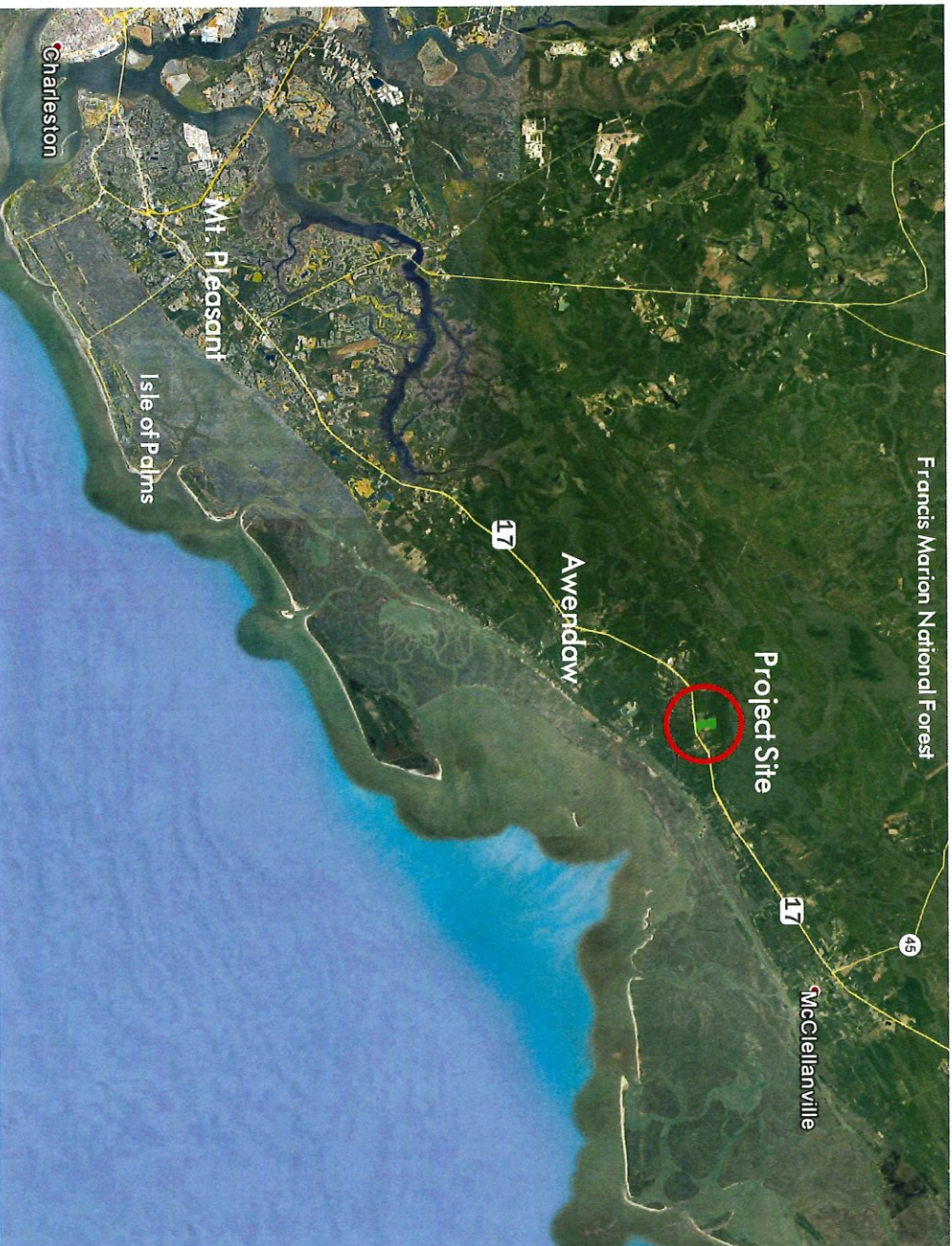
Community Meeting 2
Awendaw/
Mt. Pleasant
January 21/23

Submit PD
to County
February 28

Planning Commission Meeting
April 13

County Council
5/5
Planning/Public Works Committee-
5/14
County Council
(3 Readings)-
5/19, 5/28, 6/2

CONTEXT MAP AND SITE



Context & Location

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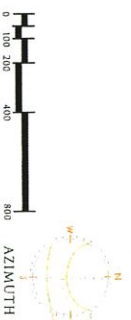
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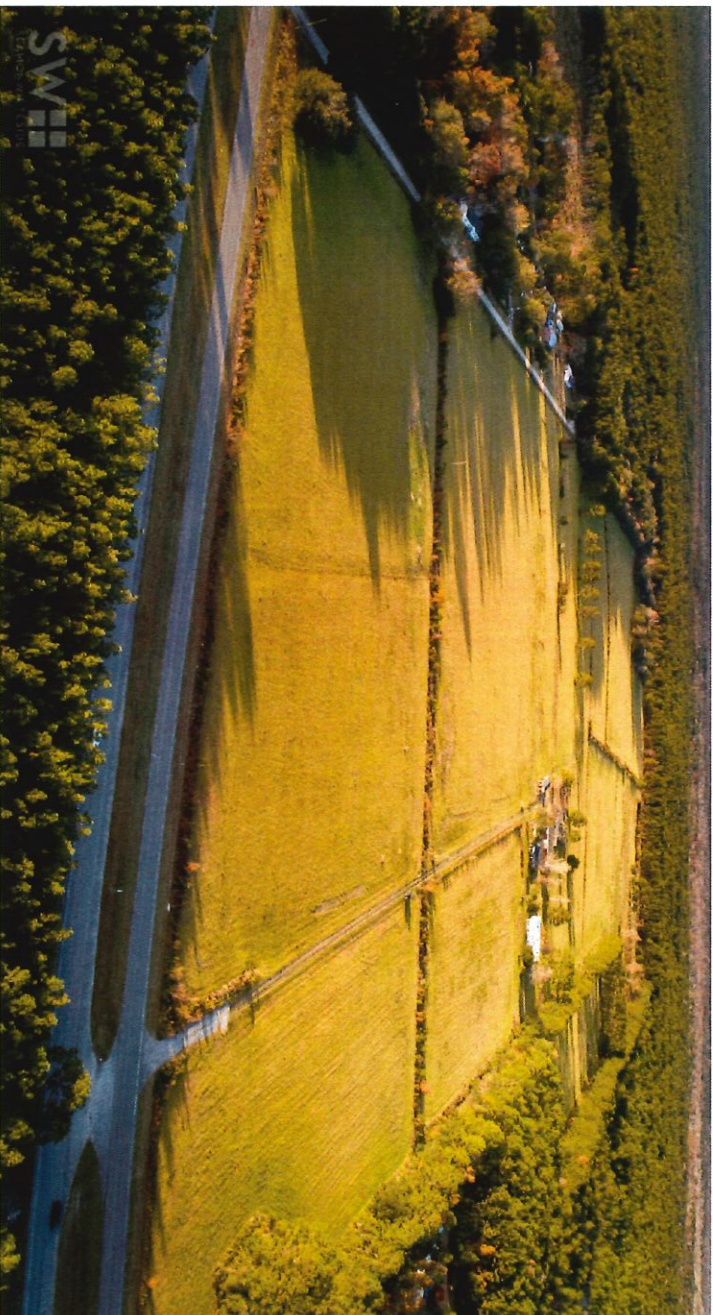
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CONCEPT PLAN

OPEN HOUSE Q&A



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Mayor Miriam C. Green

June 19, 2020

Mr. Joel Evans, AICP
Charleston County Planning Commission
4045 Bridge View Drive
North Charleston, SC 29405-7464

Dear Mr. Evans:

The Town of Awendaw would like to comment on the application by the Charleston County School District to rezone TMS # 711-00-00-052 located at 7820 N. Highway 17. The Town fully supports the efforts to build a new high school in the Awendaw area. We worked diligently with the Board to find a site that meets their needs and to provide utilities to a site in the Town. We do not, however, support the construction of a school on the selected site. A school is more than a box to be located wherever a site can be found that is easy to build on. It should be an integral part of the community. This site is very isolated and contributes nothing to the community at large outside the education benefits for the students.

The Town feels that the CCSD can continue to find a site that fits into the community rather than being an isolated island. There are other pieces of property on Highway 17 near the Birds of Prey that would be suitable for a school. Some of these are owned by the same owner as the subject parcel. The Town will fully assist the CCSD to seek another site that not only fits their program but furthers the goals and objectives of the Town in making our community a better place to live, work and play.

We request the Planning Commission defer action on this site until adequate exploration of other sites can be accomplished. This school is too important to our community to accept a site that is not the best it can be.

Respectfully Submitted

A handwritten signature in black ink that reads "D. William Wallace". The signature is written in a cursive style and extends across the width of the page.

D. William Wallace, FAICP
Town Administrator

TOWN OF AWENDAW

6971 Doar Road | P.O. Box 520 | Awendaw, SC 29429 | 843.928.3100 | awendaw@tds.net | AwendawSC.org

William Wallace | Town Administrator Gregory Saxton | Clerk

Mayor
Rutledge B. Leland, III

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



Town Administrator
Michelle A. McClellan

Zoning Administrator
Kathryn S. Basha

Phone: (843) 887-3712

405 Pinkney Street
McClellanville, SC 29458

Fax: (843) 887-3094

Monday, July 27, 2020

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 Planned 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
Town of McClellanville