NEW HANOVER COUNTY

DEPARTMENT OF PLANNING & LAND USE 230 Government Center Drive, Suite 110 Wilmington, North Carolina Telephone (910) 798-7165 FAX (910) 798-7053 planningdevelopment.nhcg ov.com



CONDITIONAL USE ZONING DISTRICT

Application

Applicant/Agent Inform	property Owner(s) If different than Applicant/Age	eni		
Name	Owner Name	Owner Name		
Bruce Bowman, AIA	Comella Nixon Davis, Inc.	Cornella Nixon Davis, Inc.		
Company	Owner Name 2	Owner Name 2		
Bowman Murray Hemingway Architects	Champion McDowell Davis Charitable Foundation	Champion McDowell Davis Charitable Foundation, Inc.		
Mailing Address	Mailing Address	Mailing Address		
514 Market St.	1011 Porters Neck Rd.			
City, State, Zip	City, State, Zip			
Wilmington, NC 28401	Wilmington, NC 28411			
Phone	Phone			
910-762-2621	910-686-7195			
Email	Email	Email		
bowman@bmharch.com	charlesl@thedavlscommunity.org			
Subject Property Information				
Address/Location				
1011 Porters Neck Rd., Wilmington, NC 2841	1			
Parcel Identification Number(s)				
R03700-001-005-000, R03700-002-001-00	0, & R03700-002-000			
Total Parcel(s) Acreage	02 88			
17.91 acres, 37.45 acres,	& 12 JZ acres			
Existing Zoning and Use(s)				
Skilled Nursing and Assisted Living Developme	nt, (CUD) O+i, Undeveloped Land R-20			
Future Land Use Classification				
General Residential				
Application Tracking Information	(Staff Only)			
Casa Number	Date/Time received: Received by:			
720-07	2/4/20 3:00 7m KV	į		

Proposed Zoning	, Use(s), & Narrative	
Proposed Conditional Use Zoning District: R-20 (CUD) CRCC Total Acreage of Proposed District: 67.3/8		
Only uses allowed by right or by Special Use Permit in the corresponding General Use District are eligible for consideration within a Conditional Use Zoning District. Please list the uses that will be allowed within the proposed Conditional Use Zoning District, the purpose of the district, and a project narrative (please provide additional pages if needed).		
See Response - Attachment 1		
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	At any time and residence.	

Traffic Impact

Please provide the estimated number of trips generated for the proposed use(s) based off the most recent version of the Institute of Transportation Engineers (ITE) Trip Generation Manual. A Traffic Impact Analysis (TIA) must be completed for all proposed developments that generate more than 100 peak hour trips, and the TIA must be included with this application.

ITE Land Use: See Attached Exhibit From Davenport Traffic Consultants- Attachment 2

Trip Generation Variable (gross floor area, dwelling units, etc.); Calculated based on new dwelling units

AM Peak Hour Trips: 16 88

PM Peak Hour Trips: 39 35 88

CONSIDERATION OF A CONDITIONAL USE ZONING DISTRICT

Conditional Use District Zoning is established to address situations where a particular land use would be consistent with the New Hanover County Land Use Plan and the Zoning Ordinance objective but for which none of the general zoning classifications which would allow that use are acceptable. The applicant must explain, with reference to attached plans (where applicable), how the proposed Conditional Use Zoning District meets the following criteria.

1,	How would the requested change be consistent with the County's policies for growth and development? (For example, the Comprehensive Plan and applicable small area plans)
	See responses - Attachment 2
2.	How would the requested Conditional Use Zoning District be consistent with the property's classification on the Future Land Use Map?
	See responses - Attachment 2
3.	What significant neighborhood changes have occurred to make the original zoning inappropriate, or how is the land involved unsuitable for the uses permitted under the existing zoning?
	See responses - Attachment 2
4.	How will this change of zoning serve the public interest?
	See responses - Attachment 2

CRITERIA REQUIRED FOR APPROVAL OF A SPECIAL USE PERMIT

Within a Conditional Use Zoning District, no use is allowed except by Special Use Permit. In order for a Special Use Permit to be issued, the Board of Commissioners must find that the application is meeting the following findings of fact. The applicant must explain, with reference to attached plans (where applicable), how the proposed use meets these required findings (please use additional pages if necessary). The applicant has the burden of proof and must provide sufficient evidence in order for the required findings to be met. Planning staff, the Planning Board, and the Board of County Commissioners reserve the right to require additional information, if needed, to assure that the proposed Special Use Permit meets the required findings.

- The use will not materially endanger the public health or safety if located where proposed and approved. Considerations:
 - Traffic conditions in the vicinity, including the effect of additional traffic on streets and street intersections, and sight lines at street intersections with curb cuts
 - Provision of services and utilities, including sewer, water, electrical, garbage collections, fire protection
 - Soil erosion and sedimentation
 - Protection of public, community, or private water supplies, including possible adverse effects on surface waters
 or groundwater
 - Anticipated air discharges, including possible adverse effects on air quality

ne use meets all required condit	ions and specifica	tions of the Zoning	Ordinance.	
ne use meets all required condit ee <u>responses</u> - Attachment 3	ions and specifica	tions of the Zoning	Ordinance.	
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CRITERIA REQUIRED FOR APPROVAL OF A SPECIAL USE PERMIT (continued)

3.	necess	e will not substantially injure the value of adjoining or abutting property, or that the use is a public ity. erations:
	÷	The relationship of the proposed use and the character of development to surrounding uses and development, including possible conflicts between them and how these conflicts will be resolved (i.e. buffers, hours of operation,
	•	etc) Whether the proposed development is so necessary to the public health, safety, and general welfare of the community or County as a whole as to justify it regardless of its impact on the value of adjoining property
	See re	ponses - Attachment 3
	Mary Mary Mary and State of St	and the second s
4.	harmor Compr	ation and character of the use if developed according to the plan as submitted and approved will be in any with the area in which it is to be located and in general conformity with the New Hanover County behavior and Use Plan.
4.	harmor Compr	by with the area in which it is to be located and in general conformity with the New Hanover County ehersive Land Use Plan. <u>erations:</u> The relationship of the proposed use and the character of development to surrounding uses and development, including possible conflicts between them and how these conflicts will be resolved (i.e. buffers, hours of operation,
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APPLICATION REQUIREMENTS

Staff will use the following checklist to determine the completeness of your application. Please verify all of the listed items are included and confirm by initialing under "Applicant InItial". Applications must be determined to be complete in order to process for further review.

Re	quired Information	Applicant Initial	Staff Initial	
1	Complete Conditional Use Zoning District application	58	7.7	
2	1 1 1 1 1 1 1 10 10 10 10 10 10 10 10 10			
3	Community meeting written summary	88	VV	
4	Traffic impact analysis (for uses that generate more than 100 peak hour trips)	88	VV	
5	Legal description (by metes and bounds) or recorded survey Map Book and Page reference of the property requested for rezoning.	移	VV	
6	Site Plan including the following elements:			
	 Tract boundaries and total area, location of adjoining parcels and roads 			
	Proposed use of land, structures and other improvements. For residential uses,			
	this shall include number, height and type of units and area to be occupied by each structure and/or subdivided boundaries. For non-residential uses, this shall include approximate square footage and height of each structure, an outline of the area it will occupy and the specific purpose for which it will be used.			
	Development schedule including proposed phasing.			
	 Traffic and Parking Plan to include a statement of impact concerning local traffic near the tract, proposed right-of-way dedication, plans for access to and from the tract, location, width and right-of-way for internal streets and location, arrangement and access provision for parking areas. 			
	 All existing and proposed easements, reservations, required setbacks, rights- of-way, buffering and signage 			
	The one hundred (100) year floodplain line, if applicable N/A.			
	Location and sizing of trees required to be protected under Section 62 of the Zonling Ordinance TREE SURVEY UPDATE IN PROCESS.			
	 Any additional conditions and requirements, which represent greater restrictions on development and use of the tract than the corresponding General Use District regulations or other limitations on land which may be regulated by State law or Local Ordinance. 			
	 Any other information that will facilitate review of the proposed change (Ref. Article VII, as applicable) 	BB	KV	
7	1 hard copy of ALL documents AND 8 hard copies of the site plan. Additional hard copies may be required by staff depending on the size of the document/site plan.	BB	W	
8	1 PDF digital copy of ALL documents AND plans on a Compact Disk (CD).	BB	KV	

ACKNOWLEDGEMENT AND SIGNATURES

By my signature below, I understand and accept all of the conditions, limitations and obligations of the Conditional Use District zoning for which I am applying. I understand that the existing official zoning map is presumed to be correct. I understand that I have the burden of proving why this requested change is in the public interest. I certify that this application is complete and that all information presented in this application is accurate to the best of my knowledge, information, and belief.

if applicable, I also appoint the applicant/agent as listed on this application to represent me and make decisions on my behalf regarding this application during the review process. The applicant/agent is hereby authorized on my

- Submit an application including all required supplemental information and materials;
- Appear at public hearings to give representation and commitments; and
- Act on my behalf without limitations with regard to any and all things directly or indirectly connected with or arising out of this application. -, Chairman Cornelia Nixon Davis, Tuc.

Print Name(s) Champion McDowell Davis Found at

Signature of Applicant/Agent

PRICE BOWMAN, ALA AGEN

NOTE: Form must be signed by the owner(s) of record. If there are multiple property owners a signature is required for each owner

*The land owner or their attorney must be present for the application at the public hearings.

If an applicant requests delay of consideration from the Planning Board or Board of County Commissioners before notice has been sent to the newspaper (approximately 2-3 weeks before the hearing), the item will be calendared for the next meeting and no fee will be required. If delay is requested after notice has been sent to the newspaper, the Board will act on the request at the scheduled meeting and are under no obligation to grant the continuance. If the continuance is granted, a fee in accordance with the adopted fee schedule as published on the New Hanover County Planning website will be required.

For Staff Only			
Application Received:	Completeness Determination Required By (date):	Determination Performed on (date):	Planning Board Meeting.
2/4/20	2/13/20	2/7/20	3/5/20



NEW HANOVER COUNTY PLANNING & LAND USE

AUTHORITY FOR APPOINTMENT OF AGENT

230 Government Center Drive Suite 110 Wilmington, NC 28403 910-798-7165 phone 910-798-7053 fax www.nhcgov.com

Please note that for quasi-judicial proceedings, either the land owner or an attorney must be present for the case at the public hearing.

The undersigned owner does hereby appoint an authorized the agent described herein as their exclusive agent for the purpose of petitioning New Hanover County for a variance, special use permit, rezoning request, and/or an appeal of Staff decisions applicable to the property described in the attached petition. The Agent is hereby authorized to, on behalf of the property owner:

- 1. Submit a proper petition and the required supplemental information and materials
- 2. Appeal at public meetings to give representation and commitments on behalf of the property owner
- Act on the property owner's behalf without limitations with regard to any and all things directly or
 indirectly connected with or arising out of any petition applicable to the New Hanover County Zoning
 Ordinance.

Agent Information	Property Owner(s)	Subject Property	
Name Bruce Bowman, AIA	Owner Name Charles Long, Cornelia Nixon Davis, Inc	Address 1011 Porters Neck Rd	
Company Bowman Murray Hemingway Architects	Owner Name 2 Champion McDowell Davis Charitable Fund	City, State, Zip Wilmington, NC 28411	
Address 514 Market St.	Address 1011 Porters Neck Rd	Parcel ID R03700-001-005-000	
City, State, Zip Wilmington, NC 28401	City, State, Zip Wilmington, NC 28411	R03700-002-001-000	
Phone 910-762-2621	Phone 910-686-7195 R03700-002-000		
Email bowman@bmharch.com	Email charles@thedaviscommunity.org		
Application Tracking Information	(Staff (Inly)		
Case Number Reference:	Date/Time received:	Received by:	
220-07	2/4/20 3:00 gm	k√	

This document was willfully executed on the _ 30Th day of JANVARY , 2020

Want Hauiston II, Chairman Saking Ma Cannack, Prosident Cornelia Nixon Davis, Inc. Champion McDowell Davis Foundation



NEW HANOVER COUNTY PLANNING & LAND USE

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- 1. Submit a proper petition and the required supplemental information and materials
- 2. Appeal at public meetings to give representation and commitments on behalf of the property owner
- 3. Act on the property owner's behalf without limitations with regard to any and all things directly or indirectly connected with or arising out of any petition applicable to the New Hanover County Zoning Ordinance.

Agent Information	Property Owner(s)	Subject Property	
Name Amy Schaefer	Owner Name Charles Long, Cornelia Nixon Davis, Inc	Address 1011 Porters Neck Rd	
Company Lee Kaess PLLC Owner Name 2 Champion McDowell Davis Charitable Fu		City, State, Zip	
Address 3414 Wrightsville Ave	Address 1011 Porters Neck Rd	Parcel ID R03700-001-005-000	
City, State, Zip Wilmington, NC 28406	City, State, Zip Wilmington, NC 28411	R03700-002-001-000	
Phone 910-399-3447	Phone 910-686-7195	R03700-002-002-000	
Email amy@leekaess.com	Email charles@thedaviscommunity.org		
Application Tracking Information	(Staff Only)		
Case Number Reference:	Date/Time received:	Received by:	
220-07	2/4/20 3:00 m	IN	

This document was willfully executed on the 30th day of January

· 20**2**0

Svank Haufor II, Chairman Arlein da Cannach Owner I Signature Covnelia Nixon Davis, Inc. Champion McDowell Davis For

Attachment 1 - Proposed use(s) and written description

The proposed new use that will be added to the 53-year-old senior care campus will be a 150-unit independent living four-story multi-family development with an additional 32 single-story cottage units consisting of duplexes and triplexes. There will also be a one-story wellness facility of approximately 25,000 square feet. The existing 179-bed skilled nursing facility and 123-unit assisted living facility will remain in use as well as the detached pharmacy and administrative buildings.

The existing zoning has been designated as O+I (CUD) for decades since the facility did not meet New Hanover County's (NHC) definition of a continuing care retirement community. As such, these uses could not be located in an R-20 zone. The original facility pre-dated the NHC Zoning Ordinance. With the addition of independent living as a new use the owner is now seeking a reversal of the O+I (CUD) zone to R-20 for the existing developed tract in addition to seeking a special use permit for both the developed tract and adjoining R-20 tract with proposed independent living for combined use as a Continuing Care Retirement Community (CCRC).

The central portion of the skilled nursing facility known as The Community Center is currently undergoing extensive renovations with partial rebuild. This is the oldest portion of the existing facility and will be replaced with a modern one-story building of similar footprint. Centralized services such as shipping, receiving, laundry, maintenance and storage is proposed to be moved from the current community center building to a new outbuilding located off of the existing service drive behind the fire station. This new facility will consolidate all large truck deliveries near the service drive behind the fire station. Deliveries to individual structures will utilize vans or small trucks. Other design elements include relocation of the storm water pond across the street, removal of the existing water tower and partial relocation of overhead power lines.

Attachment 2 - Responses to four points Consideration of a Conditional Use Zoning District

1. How would the requested change be consistent with the County's Policies for Growth and Development?

The existing developed site has been zoned a pocket of O+I (CUD) for decades as this site and facility pre-existed county zoning ordinance as a skilled nursing hospital. The facility was constructed in 1966 in the center of a 90-acre agricultural parcel located on the site of a former plantation. The undeveloped land around the developed site has been held in trust by the Champion McDowell Davis Charitable Foundation, Inc., which supports the health care center as one of its central missions. Of the 90-acre original track size, approximately 76 acres is held by Cornelia Nixon Davis, Inc. dba "The Davis Community". In recent decades properties surrounding the site have been mostly developed as single family R-20 development, including golf courses on three sides of the parcel. Plantation Village is a large senior retirement living complex that is a separate entity that contains multi-family senior services and patio homes located to the north of the site.

With the addition of the independent living and the NHC reclassification of the project to a CCRC, the zoning rolls back to R-20 and is therefore more consistent with the surrounding neighborhoods that have been developed around the long-standing campus. The site is located within a transitional zone on the Land Use Clarification Map and is located within an Urban Services Area.

2. How would the requested zone change be consistent with the property's classification on the Land Classification Map?

The land use map designates this area under low density multi-family up to 3 stories and up to 6 dwelling units per acre. The special use permit sought with the rezoning will allow consideration of taller multi-family buildings of up to 50 feet in height for the senior living CCRC project type. The project is also located on a neighborhood collector road. The proposed density is approximately 4.5 dwelling units per net acre considering the total 76-acre tract(s) held by The Davis Community. A four-story 50-ft tall multi-family solution is sought to maximize the open space and landscape areas and to improve storm water infiltration options.

3. What significant neighborhood changes have occurred to make the original zoning inappropriate, or how is the land involved unsuitable for the uses permitted under the existing zoning?

As pointed out in #1, the zoning requested will reverse the zone back to its original designation which is consistent with the surrounding zoning and uses.

4. How will this change of zoning serve the public interest?

The zoning change will add consistency to the zoning map and therefore allow only compatible uses such as the proposed CCRC, which is a use permitted for the proposed zone with Special Use Permit.

Attachment 3 - Criteria Required for Approval of Special Use Permit

1. The use will not materially endanger the public health or safety if located where proposed and approved.

- a. The existing health care facility has been a convenient source for licensed senior health care in the Porters Neck area for more than half a century. The comprehensive plan cites a fast pace growth in census between 2000 and 2010 including a 27.8% growth for ages 25-44 and 25.9% growth for ages 45-64 which will be the target demographics for this facility.
- b. The new independent living element is consistent with the surrounding general residential use map with a medium high concentration of elderly (65+). The addition of independent living with the new wellness facility providing both campus and neighboring residents' locally sourced services meeting residents' needs without adding traffic to local traffic arteries.
- c. Traffic impact will be less then 100 daily trips for AM and PM trips combined (see attached analysis from Davenport Engineering).
- d. Public water and sewer capabilities are available to the site. CFPUA has agreed to receive effluent in a preliminary statement for capacity as calculated on the proposed density.
- e. This site is located adjoining the local fire station affording quick emergency responses.
- f. The on-site wet storm water pond designed to a 25-year storm will be replaced by a larger infiltration storm water pond across the street, designed to a 100-year storm exceeding both county and state water requirements. BMP practices will also be incorporated into the developed site to aid in process and infiltration of storm water on site.
- g. The facility was a receiving site for seniors-at-risk during Hurricane Florence. The facility has emergency stand-by power including air conditioning.

2. The use meets all required conditions and specifications of the zone ordinance.

Senior Living: Continuing Care Retirement Community or Life Care Community is permitted via special use permit within the R-20 Zone District. The existing developed skilled nursing facility with 179 licensed beds and existing assisted living facility with 123 licensed beds will be combined with the new 182-unit independent living project proposed to create the continuing care retirement community under Section 72.43.1 Senior Living Options of the New Hanover County Zoning Ordinance as follows.

- 1. Total developed acreage is approximately 70 acres, exceeding the minimum required 20 acres.
- 2. On-site parking will exceed the minimum required of

1. Skilled nursing beds $179 \div 4 = 45$ spaces2. Assisted living units $123 \times 1.5 = 184.5$ spaces3. Independent living units $183 \times 1.5 = 274.5$ spaces

4. Wellness Center $25,000 \text{ SF} \div 400 \text{ SF/Space} = 62.5 \text{ spaces}$

5. Employees of the largest shift	105 x 1 = 105	spaces
Total Parking Spaces Required	671	spaces
Total Provided Spaces	734	spaces

- 3. Maximum impervious areas do not exceed 40% of the developed acreage. Storm water infiltration systems designed to a 100-year storm will be provided to satisfy the Coastal Storm Water Provisions.
- 4. Commercial uses do not exceed 2% of the new developed acreage. All of the independent structures that do not contain senior residential living are directly related to the CRCC rather than the outparcel shops. They are as follows:

•	Existing former residence (now Human Resources)	2,000 sf
•	Pharmacy support and training building	6,000 sf
•	Central Services building proposed	10,000 sf
•	Independent Living Wellness Center	25,000 sf

- 5-6. All building setback lines are represented at 50', permitting consideration of 50' tall structures. All buildings are one-story approximately 25' tall except as follows:
 - Existing assisted living 3 stories –35' tall
 - Proposed I.L. multi-family building 4 stories 50' tall
- 7. Public water and sewer serve the site.
- 8. Open space and improved recreational area exceed 35% of the net acreage.
- 9. Vegetative buffers exceed 20'.
- 10. Traffic impacts will be reviewed and approved by MPO and NCDOT. The CRCC fronts on a neighborhood collector street.
- 11. All other local, state and federal guidelines will be satisfied. NHC TRC requirements will be satisfied.
- 3. The use will not materially injure the value of adjoining or abutting property, or that the use is a public necessity.
 - a. The proposed development shall improve neighborhood access to locally sourced services and be an enhancement to neighboring properties.
 - b. The original development of this site as a skilled nursing facility began in 1967, prior to the development of a county ordinance and has maintained continued operation since. Nearly all of the developed surrounding properties were constructed after development of this site.
 - c. Convenient senior housing and licensed skilled assisted and nursing beds serves a public health necessity for this community's elderly population.
 - d. The proposed construction provides a more up to date and residential appearance that will have a positive impact on neighboring residential properties.
- 4. The location and character of the use if developed according to the plan as submitted and approved, will be in harmony with the area in which it is to be located and in general conformity with the plan of development for New Hanover County.
 - a. The site was constructed prior to the adjacent Plantation Village, an assisted living and independent living complex, which is contractually allowed continual care retirement community which creates a harmonious environment.

b.	The project is in conformity with New Hanover County plan for development by serving the surrounding areas with convenient access to the senior housing, assisted and skilled nursing facility.

	Table 1 - ITE Trip Generation													
	Davis Community													
	Average Weekday Driveway Volumes 24 Hour AM Peak PM Peak													
	Average vveekuas	5 5	Two-Way	Ho	ur	Но	ur							
<u>Land Use</u>	ITE Land Code		<u>Size</u>	Method/Type	<u>Volume</u>	<u>Enter</u>	<u>Exit</u>	<u>Enter</u>	<u>Exit</u>					
Congregate Care Facility	253	150	Dwelling Units	Adjacent/Equation	303	6	4	14	12					
Senior Adult Housing	252	32	Adjacent/Equation	103	2	4	5	4						
	Total Unad	justed		406	8	8	19	16						

Project #: 190263



TECHNICAL MEMORANDUM

Davis Community

New Hanover County, NC

Prepared for Bowman Murray Hemingway Architects, PC



Technical Memorandum

Davis Community New Hanover County, NC

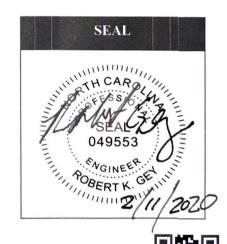
Prepared for Bowman Murray Hemingway Architects, PC February 11, 2020

Analysis by: Tou Lee, El

Drafting/Graphics by: Tou Lee, El

Reviewed by: Robert Gey, PE Timothy Lowe, PE

Sealed by: Robert Gey, PE





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Intersection Capacity Analysis for Davis Community Technical Memorandum DAVENPORT Project Number 190263 Prepared for Bowman Murray Hemingway Architects, PC February 11, 2020

Introduction

DAVENPORT was retained to determine the potential traffic impacts of the Davis Community Independent Living project and to identify transportation improvements that may be required to accommodate the impacts of both background traffic and new development traffic.

The proposed project is to be located north of the existing Davis Community in New Hanover County, NC. The project proposes 32 senior adult housing and a 182 congregate care facility dwelling units. One (1) new site access point is proposed along with interconnectivity to the existing Davis Community. The new site access is proposed to be located at Futch Creek Road and Champ Davis Road.

Methodology

Figure 1 in the Supporting Documents illustrates the site plan. The vicinity map and the existing lane geometry are illustrated in Figure 2 and Figure 3 respectively. Quality Counts staff collected existing traffic counts at the study intersection on November 5, 2019. Approved developments are developments that have been recently approved in the area, but not yet constructed. There are two (2) approved developments to be considered in this analysis.

The first is Oaks at Murray Farm (previously known as Porters Neck Development) located north of Porters Neck Road and west of Shiraz Way. This development consists of 58 single family homes and 348 multi-family housing units to be built by 2023. The second approved development is Waterstone Development located on Edgewater Club Road and south of Porters Neck Road. This development consists of 151 single family homes to be built by 2020.

Existing volumes were projected out to a future analysis year of 2022 by applying an 1% annual traffic growth rate and adding the approved development trips. Existing volumes and 2022 future no build volumes are shown for AM and PM peaks in Figures 4 and 5, respectively.

The trip generation potential for this site was projected based on the 10th edition of ITE Trip Generation Manual. Table 1 presents the results. Site trips for this project were distributed based on the existing traffic patterns and engineering judgment. The trip distribution model is shown in Figure 6. The 2022 build-out traffic volumes were obtained by summing the 2022 future no build volumes, and site trips generated by the proposed



project. Site trips are shown in Figure 7. The 2022 future build volumes are shown for AM and PM peaks in Figure 8.

Synchro traffic software and SIDRA 8.0 were used to determine the level of service of the study intersection. Queue lengths were reviewed based on the SimTraffic simulation. In general, the analysis for this project was conducted utilizing commonly accepted NCDOT standards.

The following intersections were included in the study:

- 1. Porters Neck Road at Shiraz Way / Edgewater Club Road (ROUNDABOUT)
- 2. Porters Neck Road at Davis Community Service Driveway
- 3. Porters Neck Road at Jessie Ball Dupont Road
- 4. Porters Neck Road at Champ Davis Road
- 5. Champ Davis Road at Davis Nursing Home Road / Jeanelle Moore Blvd.
- 6. Champ Davis Road at Futch Creek Road / Proposed Site Access 1

The intersections were analyzed during the AM (7-9 am) and PM (4-6 pm) peaks for the following conditions:

- 2019 Existing Conditions
- 2022 Future No-Build Conditions
- 2022 Build Conditions

Capacity Analysis

Overall, the study intersections currently operate at level of service (LOS) A or B during the AM and PM peak hours, as shown in Table 2 through Table 7 on the next page. The 2022 future no build conditions (without the project site trips) remain at the same levels of service. In 2022 future build conditions (which includes the proposed project site trips) the studied intersections remain at the same levels of service. Overall, a slight increase (less than a second) in delay is expected at all intersections.

A summary of the queue length analysis is shown in Table 8.1 and Table 8.2. No queuing issues are expected based upon the analysis results. Based on the NCDOT turn lane warrant charts, no turn lanes are warranted. Therefore, it is recommended to design the site access according to NCDOT standards. Figure 9 shows the recommended improvements.

	Table 1 - ITE Trip Generation Davis Community												
Average Weekday Driveway Volumes 24 Hour AM Peak PM Peak													
	T			T	Two-Way								
<u>Land Use</u>	ITE Land Code		<u>Size</u>	Method/Type	<u>Volume</u>	<u>Enter</u>	<u>Exit</u>	<u>Enter</u>	<u>Exit</u>				
Congregate Care Facility	253	182	Dwelling Units	Adjacent/Equation	368	7	4	16	14				
Senior Adult Housing	252	32	Dwelling Units	Adjacent/Equation	103	2	4	5	4				
	Total Unac	justed		471	9	8	21	18					

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	Tal	ble 2 - Po	orters Ne	ck Road	at Shira	z Way / I	Edgewat	er Club I	Road (RO	DUNDAB	OUT)				
	Overall							e by App sec/veh)							
Scenario	LOS	E	Eastboun	d	Westbound			N	lorthbour	ıd	Southbound				
					Α	M Peak H	lour								
		L	Т	R	L	Т	R	L	Т	R	L	Т	R		
2019	A (7.3)	A (7.1)	A (7.1)	A (7.1)	A (7.3)	A (7.3)	A (7.3)	A (7.4)	A (7.4)	A (7.4)	(7.1)	(7.1)	A (7.1)		
Existing		(7.1)	A (7.1)	(7.1)	(7.3)	A (7.3)	(7.3)	(7.4)	(7.4) A (7.4)	(7.4)	(7.1)	A (7.1)	(7.1)		
2222		L	T	R	L	Т	R	L	T	R	L	Т	R		
2022 Future No	A (O O)	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В	В		
Build	A (9.2)	(8.2)	(8.2)	(8.2)	(9.2)	(9.2)	(9.2)	(9.9)	(9.9)	(9.9)	(10.6)	(10.6)	(10.6)		
Bullu			A (8.2)			A (9.2)			A (9.9)						
2022		L	Т	R	L	Т	R	L	Т	R	L	Т	R		
Future	A (9.4)	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В	В		
Build	71 (0.1)	(8.3)	(8.3)	(8.3)	(9.3)	(9.3)	(9.3)	(10.0)	(10.0)	(10.0)	(10.7)	(10.7)	(10.7)		
			A (8.3)			A (9.3)			A (10.0)			B (10.7)			
			Т	0	P I	M Peak ⊦ ⊤			Т			Т			
2019		A	A	R A	A	A	R A	L A	A	R A	A	A	R A		
Existing	A (8.7)	(8.5)	(8.5)	(8.5)	(9.3)	(9.3)	(9.3)	(8.7)	(8.7)	(8.7)	(8.4)	(8.4)	(8.4)		
Little		(0.0)	A (8.5)	(0.0)	(0.0)	A (9.3)	(0.0)	(0.1)	A (8.7)	(0.1)	(0.4)	A (8.4)	(0.4)		
		L	T	R	L	T	R	L	T	R	L	T	R		
2022	В	В	В	В	В	В	В	В	В	В	В	В	В		
Future No Build	(12.6)	(12.8)	(12.8)	(12.8)	(13.0)	(13.0)	(13.0)	(12.5)	(12.5)	(12.5)	(11.5)	(11.5)	(11.5)		
Bullu			B (12.8)			B (13.0)			B (12.5)			B (11.5)			
2022		L	Т	R	L	Т	R	L	Т	R	L	Т	R		
Future	В	В	В	В	В	В	В	В	В	В	В	В	В		
Build	(13.1)	(13.3)	(13.3)	(13.3)	(13.6)	(13.6)	(13.6)	(13.0)	(13.0)	(13.0)	(11.8)	(11.8)	(11.8)		
			B (13.3)			B (13.6)			B (13.0)			B (11.8)			

	Table 3	- Porters N	leck Road	at Davis (Commun	ity Servic	e Drivew	<i>r</i> ay		
	LOS of Worst					Service by elay in sec		h		
Scenario	Approach		Eastbound		Westbound		Southbound			
				I Peak Ho	1	_				
	D (40.7)	L	Т	R	L	Т	R	L	Т	R
2019 Existing	B (10.7) SB Approach	A (7.7)	A (0.0)			A (0.0)	A (0.0)	B (10.7)		B (10.7)
			A (0.9)			A (0.0)			B (10.7)	
	>	L	Т	R	L	Т	R	L	T	R
2022 Future No Build	B (10.7) SB Approach	A (7.7)	A (0.0)			A (0.0)	A (0.0)	B (10.7)		B (10.7)
	11		A (0.9)		A (0.0)		B (10.7)			
		L	Т	R	L	Т	R	L	Т	R
2022 Future Build	B (10.5) SB Approach	A (7.7)	A (0.0)			A (0.0)	(0.0)	B (10.5)		B (10.5)
			A (1.0)			A (0.0)			B (10.5)	
				I Peak Ho	our	,	1			
		L	Т	R	L	Т	R	L	T	R
2019 Existing	A (9.8) SB Approach	A (7.7)	A (0.0)			A (0.0)	A (0.0)	A (9.8)		A (9.8)
			A (0.1)			A (0.0)			A (9.8)	,
		L	Т	R	L	Т	R	L	T	R
2022 Future No Build	B (10.0) SB Approach	A (7.8)	A (0.0)			A (0.0)	A (0.0)	B (10.0)		B (10.0)
			A (0.2)			A (0.0)			B (10.0)	
		L	Т	R	L	Т	R	L	Т	R
2022 Future Build	B (10.1) SB Approach	A (7.8)	A (0.0)			A (0.0)	A (0.0)	B (10.1)		B (10.1)
			A (0.4)			A (0.0)			B (10.1)	

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	T	able 4 - Po	rters Neck I	Road at	Jessie	Ball Dupo	nt Road						
Ci-	LOS of Worst	Level of Service by Approach (Delay in sec/veh)											
Scenario	Approach	E	Eastbound			Westbou	nd	Southbound					
			AN	/I Peak H	lour								
0010	D (10.1)	L	Т	R	L	Т	R	L	Т	R			
2019 Existing	B (10.4) SB Approach	A (7.6)	A (0.0)			A (0.0)	A (0.0)	B (10.4)		B (10.4)			
Extioning	OB 7 (pprodori		A (0.5)			A (0.0)		Е	3 (10.4)			
2022 Future	B (10.4)	L	T	R	L	T	R	L	Т	R			
No Build	SB Approach	A (7.7)	A (0.0)			A (0.0)	A (0.0)	B (10.4)		B (10.4)			
NO Bulla	ов Арргоасп		A (0.5)			A (0.0)		B (10.4)					
2022 Future	B (10.4)	L	Т	R	L	T	R	L	Т	R			
Build	SB Approach	A (7.7)	A (0.0)			A (0.0)	A (0.0)	B (10.4)		B (10.4)			
Dulla	ов Арргоасп			A (0.0)		B (10.4)							
			P۱	I Peak ⊦	lour								
2010	A (O O)	L	T	R	L	T	R	L	Т	R			
2019 Existing	A (9.9) SB Approach	A (7.7)	A (0.0)			A (0.0)	A (0.0)	A (9.9)		A (9.9)			
Laisting	ов Арргоасп		A (0.2)			A (0.0)	•		A (9.9)				
0000 5 4	D (40.4)	L	Т	R	L	T	R	L	Т	R			
2022 Future No Build	B (10.1) SB Approach	A (7.7)	A (0.0)			A (0.0)	A (0.0)	B (10.1)		B (10.1)			
140 Balla	No bullu Sb Approach		A (0.2)			A (0.0)		E	3 (10.1))			
2022 Future)22 Future R (10.2)		Т	R	L	Т	R	L	T	R			
2022 Future Build	B (10.2) SB Approach	A (7.8)	A (0.0)			A (0.0)	A (0.0)	B (10.2)		B (10.2)			
			A (0.2)			A (0.0)		E	3 (10.2))			

	Table 5 - Champ Davis Road at Porters Neck Road													
	LOS of			Table 3 -	Champ D		el of Servic							
Scenario	Worst Approach	ı	Eastbound	ı	,	Westboun			Northboun	d	;	Southbound		
						AM Peak I		1						
	B (11.7)	L	Т	R	L	Т	R	L	Т	R	L	Т	R	
2019 Existing	NB ´	A (7.6)	A (0.0)	A (0.0)	A (7.6)	(0.0)	A (0.0)	B (12.8)	B (12.8)	B (9.2)	B (11.2)	B (11.2)	B (11.2)	
	Approach	A (1.8)				A (0.1)			B (11.7)			B (11.2)		
	- //>	L	Т	R	L	Т	R	L	Т	R	L	Т	R	
2022 Future No	B (12.0) NB	A (7.6)	A (0.0)	A (0.0)	A (7.6)	A (0.0)	A (0.0)	B (13.1)	B (13.1)	A (9.2)	B (11.4)	B (11.4)	B (11.4)	
Build	Approach		A (1.9)		A (0.1)				B (12.0)			B (11.4)		
	- //- //	L	Т	R	L	Т	R	L	Т	R	L	Т	R	
2022 Future	B (12.1) NB	A (7.6)	A (0.0)	A (0.0)	A (7.6)	A (0.0)	A (0.0)	B (13.2)	B (13.2)	A (9.2)	B (11.4)	B (11.4)	B (11.4)	
Build	Approach		A (1.9)			A (0.1)			B (12.1)		B (11.4)			
						PM Peak I	lour							
	B (13.7)	L	Т	R	L	Т	R	L	Т	R	L	Т	R	
2019 Existing	NB Approach	A (7.7)	A (0.0)	A (0.0)	A (7.5)	A (0.0)	A (0.0)	B (14.1)	B (14.1)	A (9.0)	B (10.2)	B (10.2)	B (10.2)	
	Арргоасті		A (2.8)			A (0.0)			B (13.7)			B (10.2)		
2022	D (40.0)	L	Т	R	L	Т	R	L	Т	R	L	Т	R	
Future No	B (13.9) NB	A (7.8)	A (0.0)	A (0.0)	A (7.6)	A (0.0)	A (0.0)	B (14.6)	B (14.6)	A (9.0)	B (10.5)	B (10.5)	B (10.5)	
Bulla	Build Approach		A (2.8)			A (0.1)			B (13.9)			B (10.5)		
0000	D (44.4)	L	T	R	L	T	R	L	T	R	L	T	R	
2022 Future	B (14.1) NB	A (7.8)	A (0.0)	A (0.0)	A (7.6)	A (0.0)	A (0.0)	B (14.9)	B (14.9)	A (9.0)	B (10.6)	B (10.6)	B (10.6)	
Build	Approach		A (2.9)			A (0.1)			B (14.1)			B (10.6)		

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	Table 6	- Champ	Davis Ro	ad at Dav	is Nurs	ing Hor	ne Roa	d / Jean	ielle Mo	ore Bo	ulevard		
0	LOS of				Le		ervice b ay in se	oy Appro c/veh)	oach				
Scenario	Worst Approach	E	Eastbound	ı	Westbound			N	orthboui	nd	Southbound		
					AM Pe	ak Hou	ſ						
	A (0.7)	L	Т	R	L	Т	R	L	Т	R	L	Т	R
2019 Existing	A (9.7) EB	A (9.7)	A (9.7)	A (9.7)	A (9.4)	A (9.4)	A (9.4)	A (7.4)	A (0.0)	A (0.0)	A (7.3)	A (0.0)	A (0.0)
	Approach		A (9.7)			A (9.4)			A (1.6)			A (0.3)	
	. (0 =)	L	Т	R	L	Т	R	L	Т	R	L	Т	R
2022 Future	A (9.7) WB	A (9.7)	A (9.7)	A (9.7)	A (9.5)	A (9.5)	A (9.5)	A (7.5)	A (0.0)	A (0.0)	A (7.3)	A (0.0)	A (0.0)
No Build	Approach		A (9.7)		A (9.5)			A (1.7)			A (0.3)		
0000	A (0.0)	L	Т	R	L	Т	R	L	Т	R	L	Т	R
2022 Future Build	A (9.6) WB	A (9.5)	A (9.5)	A (9.5)	A (9.6)	A (9.6)	A (9.6)	A (7.5)	A (0.0)	A (0.0)	A (7.3)	A (0.0)	A (0.0)
Bulla	Approach		A (9.5)			A (9.6)			A (2.1)			A (0.3)	
					PM Pe	ak Hou			1	1	1	1	
	A (9.6)	L	Т	R	L	Т	R	L	Т	R	L	Т	R
2019 Existing	WB Approach	A (9.2)	A (9.2)	A (9.2)	A (9.6)	A (9.6)	A (9.6)	A (7.3)	A (0.0)	A (0.0)	A (7.4)	A (0.0)	(0.0)
	прргосоп		A (9.2)			A (9.6)			A (0.2)			A (0.5)	
0000	A (0.7)	L	Т	R	L	Т	R	L	Т	R	L	Т	R
2022 Future	A (9.7) WB	A (9.3)	A (9.3)	A (9.3)	A (9.7)	A (9.7)	A (9.7)	A (7.4)	A (0.0)	A (0.0)	A (7.5)	A (0.0)	(0.0)
NO Bulla	No Build Approach		A (9.3)			A (9.7)			A (0.3)			A (0.5)	
0000	A (O O)	L	Т	R	L	T	R	L	T	R	L	T	R
2022 Future	A (9.8) WB	A (9.2)	A (9.2)	A (9.2)	A (9.8)	A (9.8)	A (9.8)	A (7.4)	A (0.0)	A (0.0)	A (7.5)	A (0.0)	A (0.0)
Bulla	Build Approach		A (9.2)			A (9.8)		A (0.8)			A (0.5)		



		Tabl	e 7 - Fut	ch Cree	k Road				np Davi	s Road				
	LOS of					Level	of Servi	ice by A _l n sec/ve						
Scenario	Worst						(Delay I	li sec/ve	11)					
	Approach	E	Eastbour	nd	Westbound			Northbound			Southbound			
					ΔI	M Peak I	Ноши							
		L	Т	R	L	vi Peak T	R	L	Т	R	L	Т	R	
2019	A (9.2)	A	A	ĸ	L	A	A	L	I	ĸ	A	I	A	
Existing	SB	(7.3)	(0.0)			(0.0)	(0.0)				(9.2)		(9.2)	
	Approach	A (1.8)				A (0.0)	(/				\-\'	A (9.2)	(- /	
2222	A (0.0)	L	Т	R	L	Т	R	L	Т	R	L	Т	R	
2022 Future	A (9.2) SB	Α	Α			Α	Α				Α		Α	
No Build	Approach	(7.3)	(0.0)			(0.0)	(0.0)				(9.2)		(9.2)	
			A (1.8)			A (0.0)						A (9.2)		
2022	A (9.5) NB	L	Т	R	L	Т	R	L	Т	R	L	Т	R	
Future		Α (7.0)	Α (2.2)	Α (2.2)	Α	Α (2.2)	Α (2.2)	Α	Α	Α	Α	Α	A	
Build	Approach			(0.0)	(7.4) (0.0) (0.0)			(9.5)	(9.5)	(9.5)	(9.4)	(9.4)	(9.4)	
			A (1.7)		A (0.8)				A (9.5)		A (9.4)			
			ĺ	ĺ		M Peak I								
	A (9.6)	L	Т	R	L	Т	R	L	Т	R	L	Т	R	
2019	SB	(7.5)	A (0.0)			A (0.0)	A (0.0)				(O, 6)		(O, 6)	
Existing	Approach	(7.5)	(0.0) A (5.3)			(0.0) A (0.0)	(0.0)				(9.6)	A (9.6)	(9.6)	
		L	T (5.3)	R	L	T (0.0)	R		Т	R	L	T (9.0)	R	
2022	A (9.7)	A	A	K	L	A	A	L	I	K	A	I	A	
Future	SB	(7.5)	(0.0)			(0.0)	(0.0)				(9.7)		(9.7)	
No Build	Approach		A (5.3)			A (0.0)	1 (/				\ - \ /	A (9.7)	Λ- /	
0000	D (40.0)	L	Т	R	L	Т	R	L	Т	R	L	Т	R	
2022 Future	B (10.0) SB	Α	Α	Α	Α	Α	Α	Α	Α	Α	В	В	В	
Build	Approach	(7.5)	(0.0)	(0.0)	(7.3)	(0.0)	(0.0)	(9.9)	(9.9)	(9.9)	(10.0)	(10.0)	(10.0)	
	[- [- · · 2··		A (4.9)			A (0.3)			A (9.9)			B (10.0)		



			Table 8.1 - Que AM Peak Hou								
Scenario	Porters Neck Roa	ad at Shiraz Way / Ed	dgewater Club Road	(ROUNDABOUT)		Neck Road nmunity Se Driveway		Porters Neck Road at Jessie Ball Dupont Road			
2019 Existing	EBLTR	WBLTR	NBLTR	SBLTR	EBLT	WBTR	SBLR	EBLT	WBTR	SBLR	
Max Queue (ft)	60.5	31.6	38.7	16.2	31	0	55	0	0	31	
95th Percentile Queue (ft)	60.5	31.6	38.7	16.2	2	0	1	1	0	1	
Storage Bay (ft)	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	
2022 Future No Build	EBLTR	WBLTR	NBLTR	SBLTR	EBLT	WBTR	SBLR	EBLT	WBTR	SBLR	
Max Queue (ft)	77.9	37.8	63.3	38	52	0	35	33	0	30	
95th Percentile Queue (ft)	77.9	37.8	63.3	38	2	0	1	1	0	1	
Storage Bay (ft)	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	
2022 Future Build	EBLTR	WBLTR	NBLTR	SBLTR	EBLT	WBTR	SBLR	EBLT	WBTR	SBLR	
Max Queue (ft)	79.6	39.2	63.9	38.6	49	0	30	22	0	35	
95th Percentile Queue (ft)	79.6	39.2	63.9	38.6	2	0	2	1	0	1	
Storage Bay (ft)	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	
			PM Peak Hou	r Queues							
Scenario	Porters Neck Roa	ad at Shiraz Way / Ec	dgewater Club Road	(ROUNDABOUT)		Neck Road nmunity Se Driveway			Neck Road II Dupont R		
2019 Existing	EBLTR	WBLTR	NBLTR	SBLTR	EBLT	WBTR	SBLR	EBLT	WBTR	SBLR	
Max Queue (ft)	88	45.2	42.7	20.9	0	0	31	0	0	31	
95th Percentile Queue (ft)	88	45.2	42.7	20.9	0	0	2	0	0	2	
Storage Bay (ft)	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	
2022 Future No Build	EBLTR	WBLTR	NBLTR	SBLTR	EBLT	WBTR	SBLR	EBLT	WBTR	SBLR	
Max Queue (ft)	166.1	70.6	85.4	40.3	24	0	44	16	0	35	
95th Percentile Queue (ft)	166.1	70.6	85.4	40.3	0	0	2	0	0	2	
Storage Bay (ft)	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	
2022 Future Build	EBLTR	WBLTR	NBLTR	SBLTR	EBLT	WBTR	SBLR	EBLT	WBTR	SBLR	
Max Queue (ft)	175.5	78.2	89.7	41.5	51	0	35	33	0	35	
95th Percentile Queue (ft)	175.5	78.2	89.7	41.5	1	0	3	0	0	2	
Storage Bay (ft)	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	



						Table 8.2	- Queue Re	sults						
Scenario		Champ I	Davis Road	at Porters	Neck Road			ues Davis Roa Dad / Jeane			Futch Cr	eek Road at / Site A		vis Road
2019 Existing	EBLT	EBR	WBLTR	NBLT	NBR	SBLTR	EBLTR	WBLTR	NBLTR	SBLTR	EBLT	WBTR	NBLTR	SBLR
Max Queue (ft)	28	0	0	28	24	52	31	22	23	27	0	0		45
95th Percentile Queue (ft)	3	0	0	2	0	10	1	1	1	0	1	0		9
Storage Bay (ft)	FULL	150	FULL	50	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL		FULL
2022 Future No Build	EBLT	EBR	WBLTR	NBLT	NBR	SBLTR	EBLTR	WBLTR	NBLTR	SBLTR	EBLT	WBTR	NBLTR	SBLR
Max Queue (ft)	36	0	9	32	24	54	32	27	14	0	0	0		49
95th Percentile Queue (ft)	3	0	0	2	0	11	1	1	1	0	1	0		9
Storage Bay (ft)	FULL	150	FULL	50	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL		FULL
2022 Future Build	EBLT	EBR	WBLTR	NBLT	NBR	SBLTR	EBLTR	WBLTR	NBLTR	SBLTR	EBLTR	WBLTR	NBLTR	SBLTR
Max Queue (ft)	30	0	6	32	24	70	46	27	24	10	17	15	30	60
95th Percentile Queue (ft)	3	0	0	2	0	11	1	1	1	0	1	0	1	10
Storage Bay (ft)	FULL	150	FULL	50	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL
						PM Peal	k Hour Que	ues						
Scenario		Champ I	Davis Road	at Porters	Neck Road			Davis Roa oad / Jeane			Futch Cr	eek Road at / Site A		vis Road
2019 Existing	EBLT	EBR	WBLTR	NBLT	NBR	SBLTR	EBLTR	WBLTR	NBLTR	SBLTR	EBLT	WBTR	NBLTR	SBLR
Max Queue (ft)	27	0	0	27	23	52	32	21	0	0	28	0		57
95th Percentile Queue (ft)	5	0	0	3	0	9	1	1	0	0	2	0		7
Storage Bay (ft)	FULL	150	FULL	50	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL		FULL
2022 Future No Build	EBLT	EBR	WBLTR	NBLT	NBR	SBLTR	EBLTR	WBLTR	NBLTR	SBLTR	EBLT	WBTR	NBLTR	SBLR
Max Queue (ft)	43	0	0	36	19	49	50	50	0	0	28	0		51
95th Percentile Queue (ft)	5	0	0	3	0	10	2	1	0	0	3	0		8
Storage Bay (ft)	FULL	150	FULL	50	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL		FULL
2022 Future Build	EBLT	EBR	WBLTR	NBLT	NBR	SBLTR	EBLTR	WBLTR	NBLTR	SBLTR	EBLTR	WBLTR	NBLTR	SBLTR
Max Queue (ft)	42	0	0	28	24	51	36	22	9	5	29	9	39	44
95th Percentile Queue (ft)	6	0	0	3	0	11	2	1	1	0	3	0	1	9
Storage Bay (ft)	FULL	150	FULL	50	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL

Home Office:

119 Brookstown Ave. Suite PH1

Winston-Salem, NC 27101 Main: 336.744.1636; Fax: 336.458.9377

Wilmington Regional Office: 3722 Shipyard Boulevard, Suite E Wilmington, NC 28403

Main: 910.251.8912; Fax: 336.458.9377



Summary and Conclusion

DAVENPORT was retained to determine the potential traffic impacts of this project and to identify transportation improvements that may be required to accommodate the impacts of both background traffic and new development traffic.

Based on the trip generation rates and equations published in Trip Generation (Institute of Transportation Engineers, 10th Edition), this development has a trip generation potential of 17 trips in the AM peak and 39 trips in the PM peak.

Overall, this capacity analysis shows that the proposed project will have a relatively minimal impact on capacity (less than a second increase in delay). Therefore, no improvements are recommended to accommodate future build traffic.

In conclusion, this study has reviewed the impacts of both background traffic and proposed development traffic and has provided recommendations to accommodate future traffic. Please note that all site accesses should be designed according to NCDOT standards.

Attached Supporting Documents:

- 1. Figure 1: Site Plan
- 2. Figure 2: Vicinity Map
- 3. Figure 3: Existing Lane Geometry
- 4. Figure 4: 2019 Existing Volumes
- 5. Figure 5: 2022 Future No Build Volumes
- 6. Figure 6: Trip Distribution
- 7. Figure 7: Site Trips
- 8. Figure 8: 2022 Future Build Volumes
- 9. Figure 9: Recommended Improvements

Main: 910.251.8912; Fax: 336.458.9377



Supporting Documents





FIGURE 1 SITE PLAN

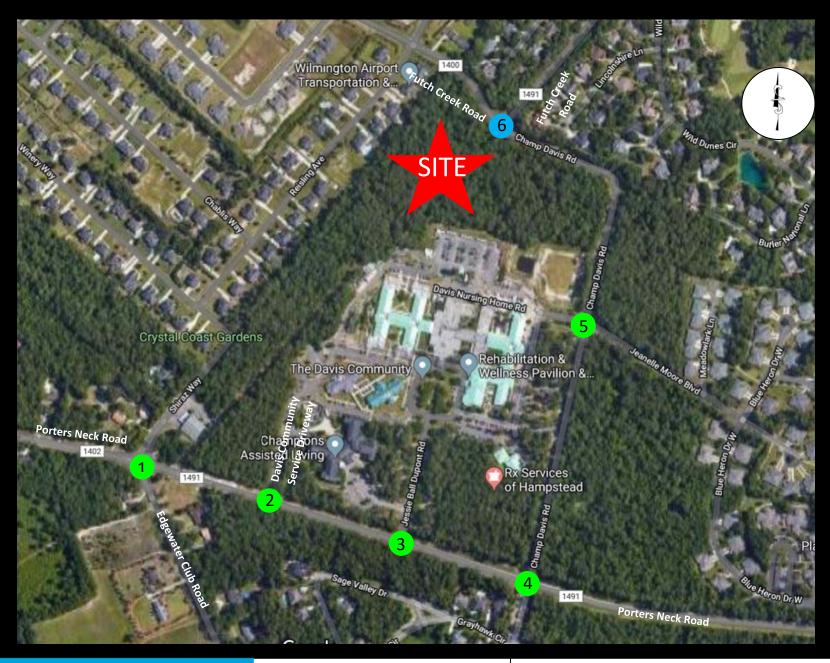
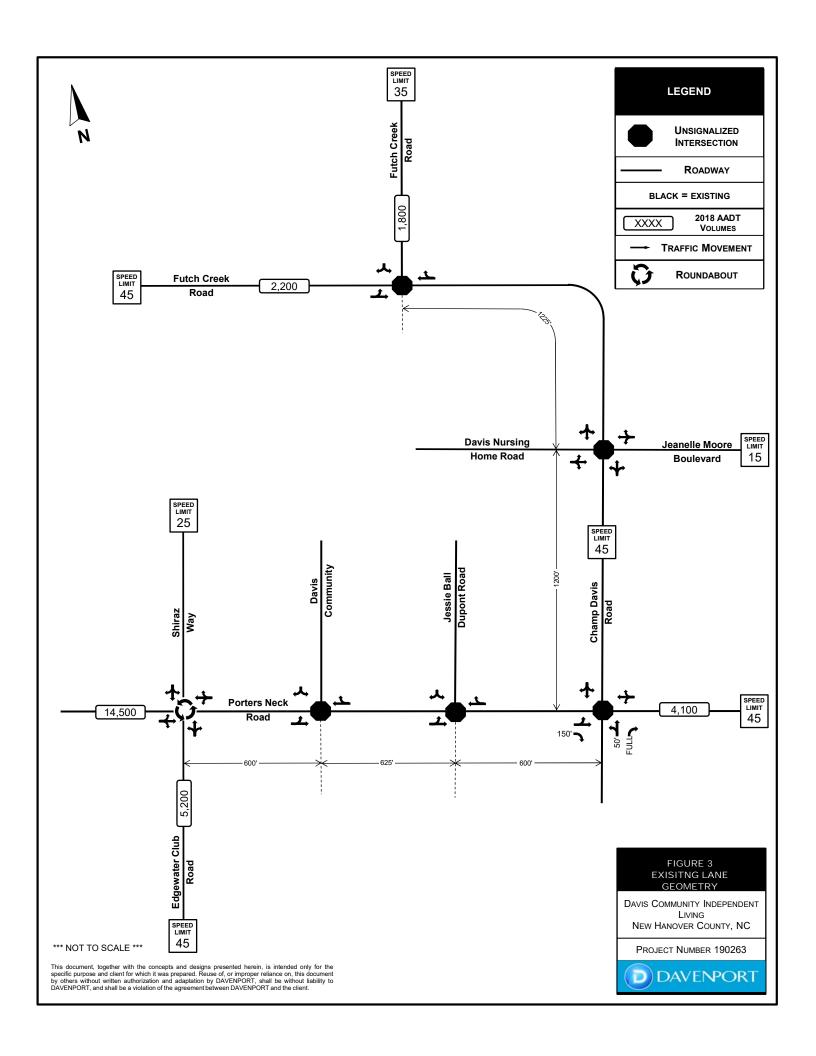
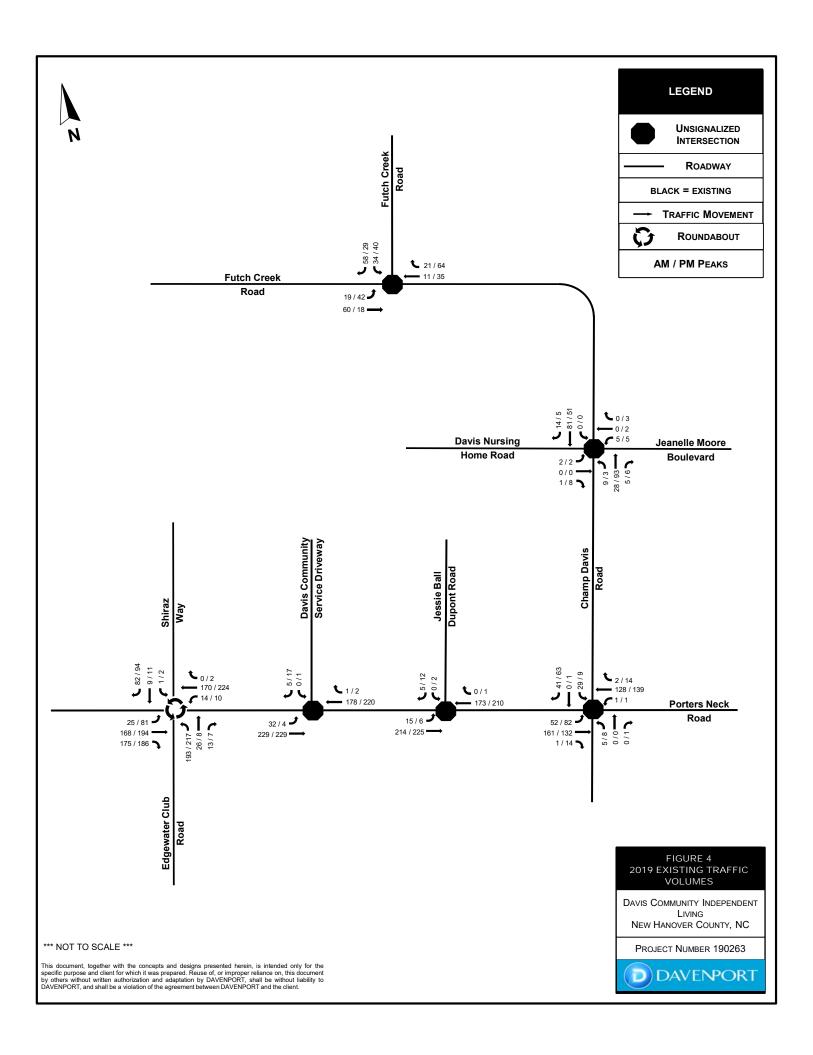
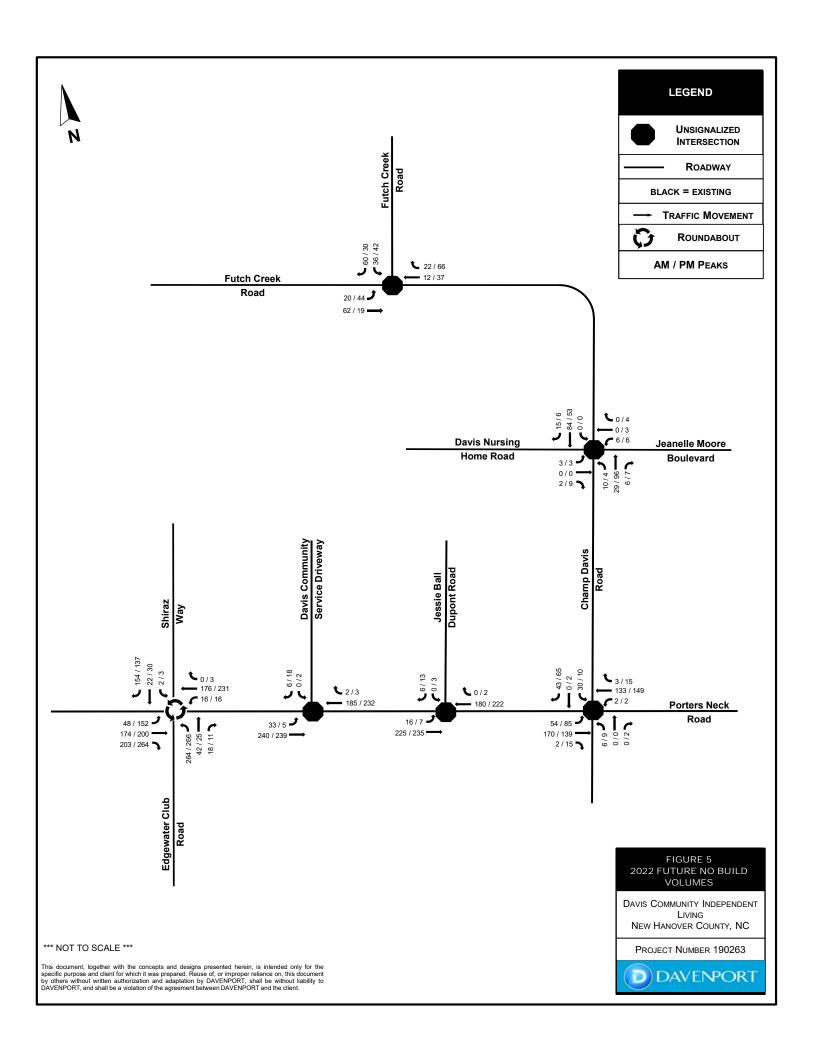


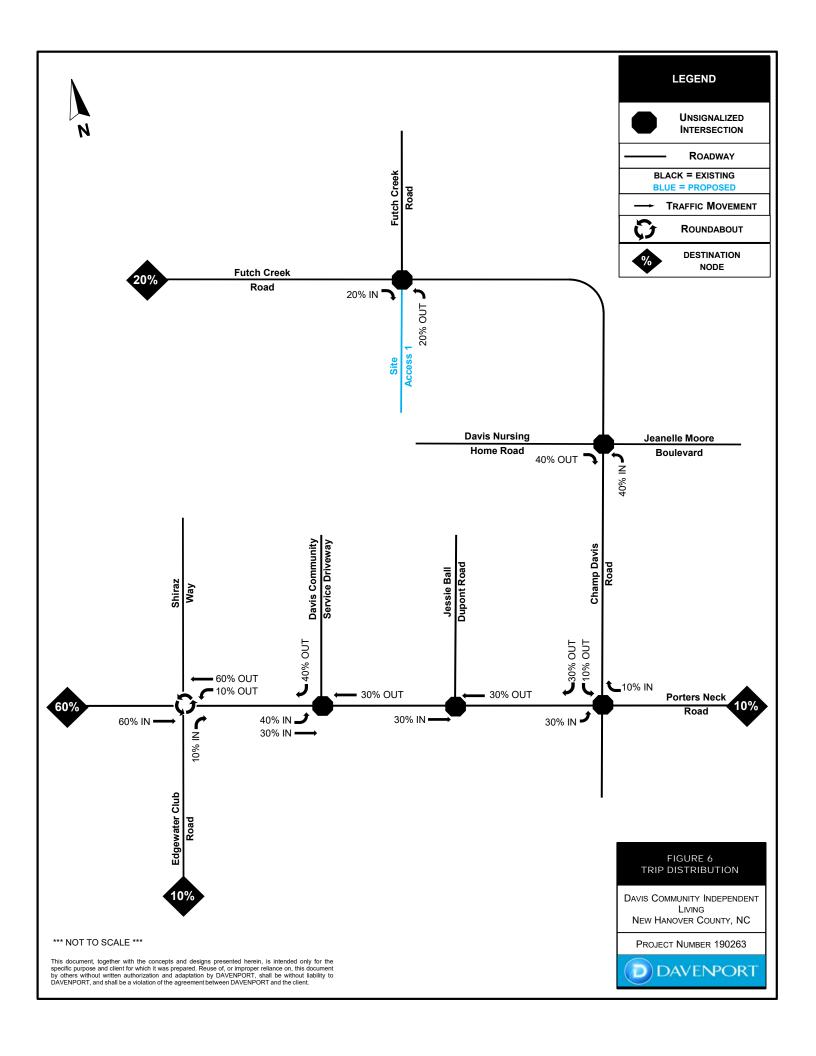


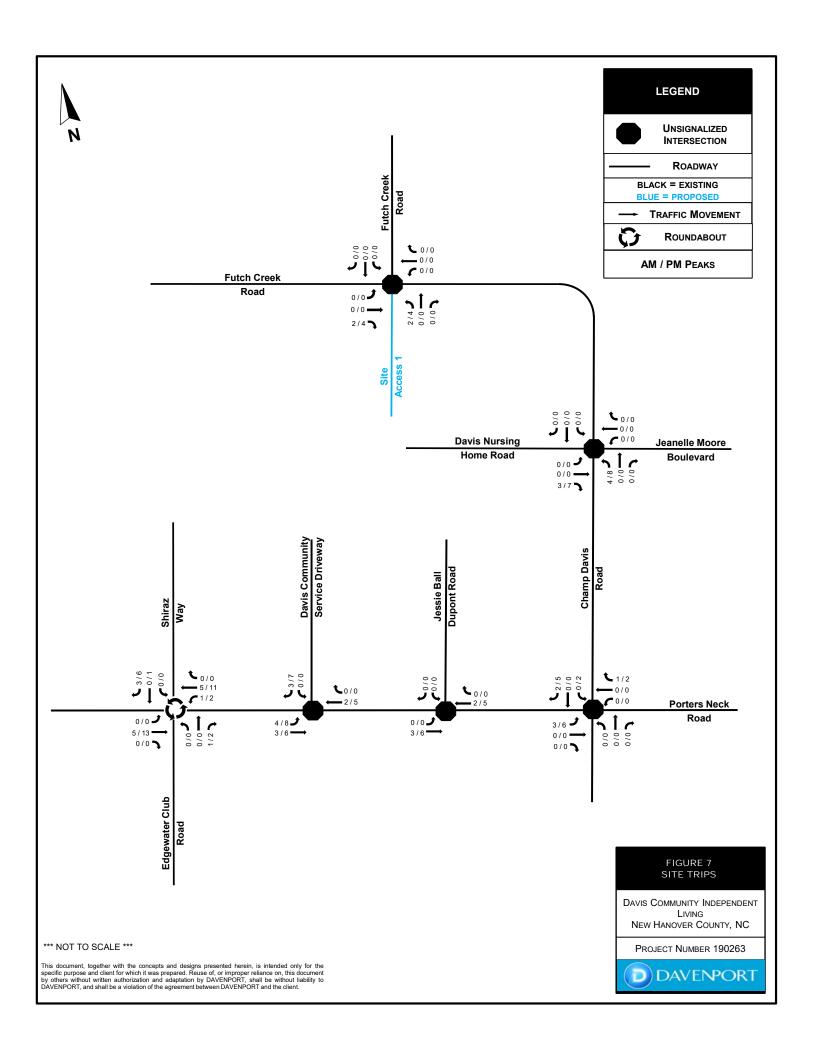
FIGURE 2 VICINITY MAP STUDY INTERSECTIONS BACKGROUND PROPOSED

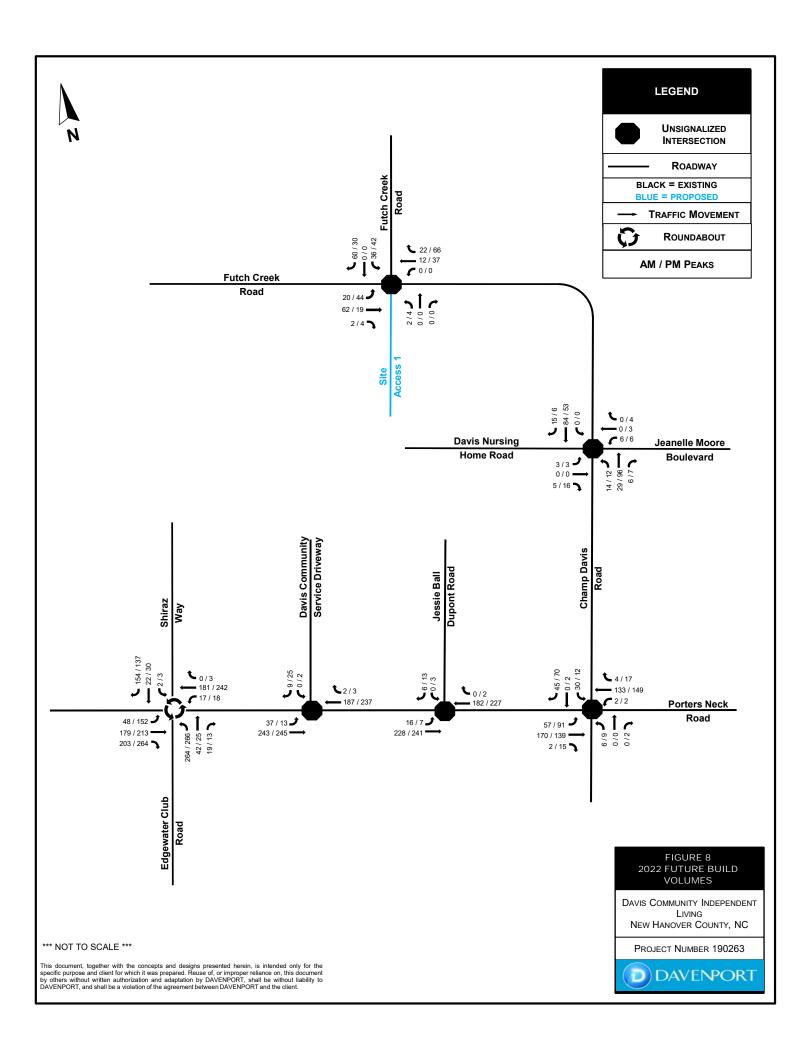


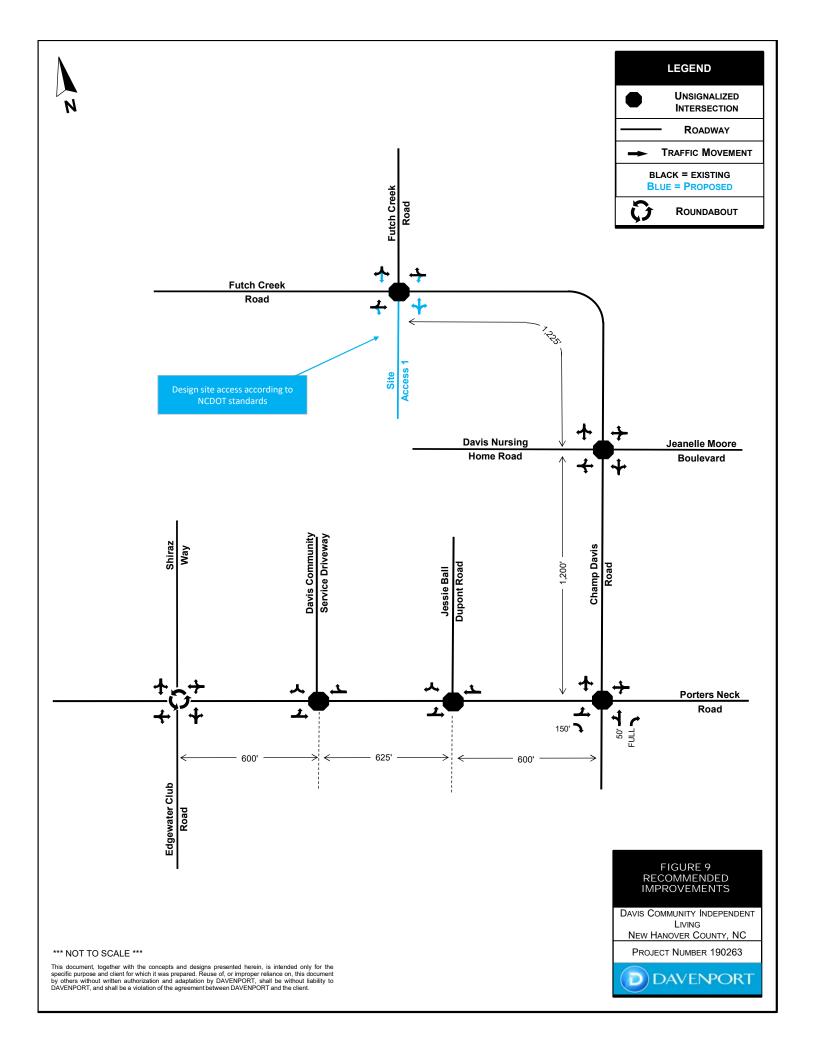














514 Market Street Wilmington, NC 28401 phone 910.762.2621 www.bmharch.com

The Davis Community Independent Living Community Meeting Minutes for Conditional Use District Wesleyan Chapel United Methodist Church January 23, 2020

Attending for owner's team:

Bruce Bowman, BMH Architects – Presenter
David Ball, BMH Architects – Architect
Charles Long, CEO – The Davis Community
Angie Barr, Davis Administrative Team
Jeff Winecoff, Davis Administrative Team
Amy Schaefer, Lee Kaess Law Firm – Land Use Attorney
Phil Tripp, Tripp Engineering – Civil Engineer
Tim Lowe, Davenport Engineering – Traffic Engineer
Cal Morgan, J C Morgan Company – Appraisal Specialist

Community Attendees:

See Attachment #1 for list of attendees for 3:30pm and 5:30pm community meetings

Presentation:

Each presentation opened with an 8-minute video on the history of The Davis Community since 1963. The video was followed by a 34 slide Power Point (see Attachment #2). Mr. Bowman discussed each slide and requested that guestions be held until after the presentation.

3:30 Community Meeting Summary of Questions and Answers

- Q 1 Denny Casterline (Plantation Village)
 Did the traffic study collect data on school traffic, work traffic and does it include traffic impact from neighboring Logan Home Development?
- A 1 Tim Lowe, Davenport Engineering
 School and work traffic loads were extrapolated using accepted methods and practices. Morning
 peak traffic captures school load. Afternoon traffic at the school will hit ahead of PM peak load.
 The Logan Home Development was included in the study.
- Q 2 Julia Worth (Bald Eagle Lane)
 This area has a large elderly population creating some confusion and, in turn, traffic delays. Have you considered adding turn lanes to lessen this?

A 2 Bruce Bowman

The calculated traffic load does not warrant turn or decelerating lanes with only 56 total daily peak load increase. We will, however, look at opportunities to improve signage at the various entrances as well as altering the main driveway gate to improve car stacking off of the Porters Neck roadway. The driveway proposed at Shiraz Way has been reduced to just a bike path and trail. This was modified since the community meeting announcement at the request of Trevor Matthews and neighbors to the west.

Q 3 Mary Michaelson (Vineyard Plantation)

Please consider a solid privacy fence along Shiraz Way behind the centralized services building. Will a turn lane be provided for trucks at this entrance?

A 3 Bruce Bowman

We will add an opaque fence here and will maintain the existing landscape buffer. A turn lane will not be provided but adequate truck egress queuing will be provided on the campus side of the gate. The gate is set back 100' from the right-of-way allowing for stacking of two trucks on the road side of the gate. We may study increasing the west bound turn radius from the existing 25' radius to 30' radius to improve truck egress into Porters Neck Road.

Q 4 Tom Owens (Vineyard Plantation)

We have flooding concerns after Hurricane Florence with all the new proposed developments in the neighborhood. When will storm water details be finalized?

A 4 Bruce Bowman

The storm water design is conceptually complete but will be finalized for the county technical review process. The design calls for replacement of the existing wet storm water pond designed to meet a 25-year storm with a larger infiltration storm pond across the street to meet a 100-year storm. Local infiltration beds and rain gardens will be included in the site development to minimize the water leaving the site to the new pond. We have conducted soil borings and the soils are very favorable to infiltration. Our wet pond remains mostly dry at the existing pond location for this reason.

Q 5 Sandy Clark (Plantation Village)

Please show us the location of the existing power lines. Have you included accessible design in the site and facility?

A 5 Bruce Bowman

The overhead energy power lines were identified. There will be a study as to the possibility of partial relocation of these. The campus site and all buildings are designed to meet barrier free requirements. In several cases these requirements have been exceeded.

O 6 Porters Neck Plantation

We have flooding concerns related to the storm water pond.

A 6 We have strategically located the new pond on the southeastern parcel to route storm water away from Porters Neck Plantation. The northeastern parcel will not be the receiving site but will continue to infiltrate storm water in a passive fashion. The new design will handle larger storms and should improve flooding at Porters Neck Plantation due to the relocation.

Q 7 Connor (Reisling Avenue)

Can you improve the distance of the cottage drive away from the west boundary including possibly flipping the cottage orientation with the drive for a back yard to back yard arrangement? Also, will trucks use this driveway?

A 7 Bruce Bowman

The cottage drive will not have service traffic. Service traffic will be on the internal road by the Health Care Center. We will relocate the cottage drive to improve setback and will study buffer yard improvements. We will study flipping the cottage orientation but cannot agree to that at this time. Some in the audience mentioned that the current arrangement provides a greater separation between the cottages and the neighboring houses.

Q 8 John Sawyer (Lincolnshire)

The Futch Creek and Champ Davis intersection is dangerous. The new driveway should be carefully designed.

A 8 Bruce Bowman

The design of this driveway will involve the relocation of a power pole and will include fill dirt to raise the driveway to improve visibility to oncoming vehicles.

Conclusion - Bruce Bowman

Thank you for attending our community meeting. Please feel free to contact myself or the County Planning staff if you have any further questions. The public hearings for this item should be scheduled in March for the Planning Board and April for County Commissioners and will be announced through a public notice process.

The 3:30pm community meeting ended at 4:50pm.

5:30pm Community Meeting Summary of Questions and Answers

Q 9 Is the project funded and ready to start after the rezoning process and is it your intention to keep the facility open during construction?

A 9 Bruce Bowman

The project financing is pending but expected to finish shortly. The community will remain open during construction. Phase I pond relocation and centralized services building will begin after the rezoning process is concluded. The cottages will be complete in early 2021 and the Wellness Facility and Multi-Family Buildings are scheduled for completion mid-year 2022. This timeline is still tentative.

Q 10 Have you considered the effect of other nearby development in your design?

A 10 Bruce Bowman

Yes, we have included the Logan Home traffic impact in our traffic planning. The peak trip are 56 addition peak load trips per day for the proposed development. This only exceeds the by-right traffic impact for half-acre lots by 27 additional vehicles per day at peak times for just the two adjoining parcels excluding the pond parcel.

Q 11 The site coverage is concerning with respect to stormwater and flooding problems.

A 11 Bruce Bowman

Our design of the multi-family building is proposed at four-stories rather than three stories to minimize site coverage and building footprints. We will incorporate storm water infiltration measures on site in addition to the new infiltration basin across the street. These will be designed to meet a 100-year storm. The storm water design will be well vetted once approved at the County Technical Review and State Division of Water Quality.

Q 12 Please show and describe the buffer yard.

A 12 Bruce Bowman

We have a 20' buffer yard within a 50' building setback. We propose to adjust the drive along the west boundary to exceed the buffer requirements. Existing tress will remain in this buffer yard.

Q 13 How will the four-story building appear from outside the development?

A 13 Bruce Bowman

The multi-family building will not exceed the 50' height limit permitted. Existing trees along the roadway will remain to provide a visual buffer as well as new landscaping plantings. The building will be visible from the street between the trees. The building placement is about twice the distance back from the right-of-way than it is tall. This site placement was chosen to buffer the taller building from the neighbors since the Champ Davis Roadway falls between the four-story building and adjoining residential neighbors to the north.

Q 14 What will happen with the existing deer population?

A 14 Bruce Bowman

They will likely disperse during construction with some possibly returning after the construction concludes.

Conclusion repeated from Session One.

The 5:30pm community meeting concluded at 6:32pm.

Prepared: Bruce Bowman

3: 12 gra

10255 US Highway 17

The Davis Community

Community Meeting - Special Use and Conditional Zoning January 23, 2020

	January 25, 2020		
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LINDA RITEROUR	220 Hocker Rd Wil. 28409	TIRelider ad. 10	m 617-14
STEVE SEARCY	7820 BLYE HERON WEST	WNHC1@ AOL Long	(414)313-2122
JOHN SAWJEr	870/ Lincoln shipe lane.	Tome Sauger Wat Gr	at 397119
Tan Owens'	8414 Repling Ave	ow ensitomor grail.	EM 910-269-738
Jane Celbers	8217 Blue Heron Dr. E # 3 28411	janalh Caol. Com	910.520.7738
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Carolyn Pappendick		, ,	
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10255 US Highway 17 The Davis Community

Community Meeting - Special Use and Conditional Zoning January 23, 2020

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Sandy Drive at	8137 Blue Heron Dr. EC-108	Wright 9573 @ amo	1 210-686-63
Sandy Quara BOB POLTER	8137 Blue Heron Dr. E C-307	mystic topas 21/12	school com
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MikeTedder	8231 Bluettera Dr. 497438411	stallerm kall falso	CDW 2794606
Julia Worth Mike + Pez Cahile Karan Smith	8040 Bald Eagle Ln. Wilm 28411 8702 Interlachen Cir. W. M28411 1013 Edgewater UVB Rd	Illaworth 1660 amail	com
Mike + Peg Cabile	8702 Intellachen Cir, W. LM 25411	Mickicahille thhom	9106120728
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10255 US Highway 17 The Davis Community Community Meeting - Special Use and Conditional Zoning January 23, 2020

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10255 US Highway 17 The Davis Community

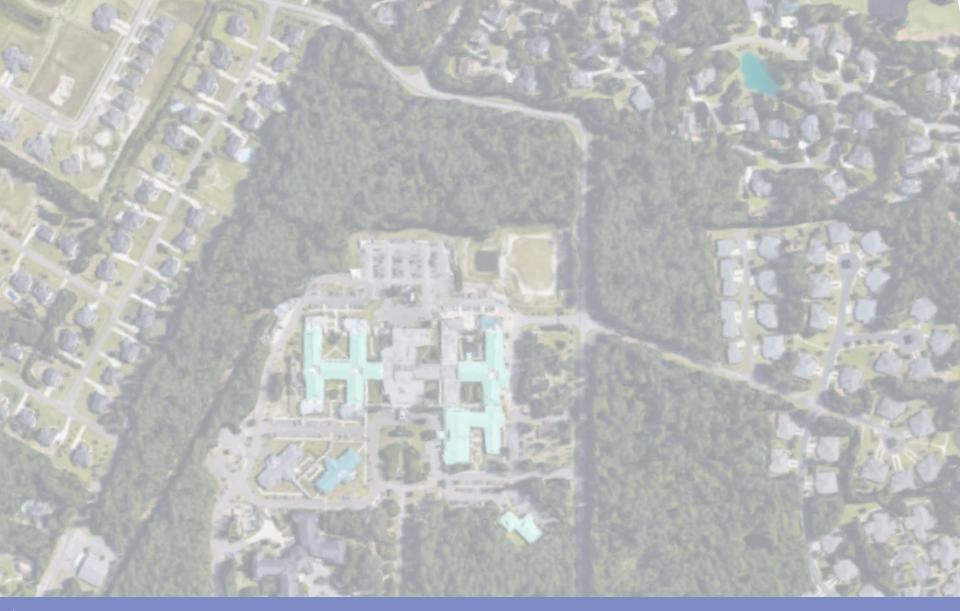
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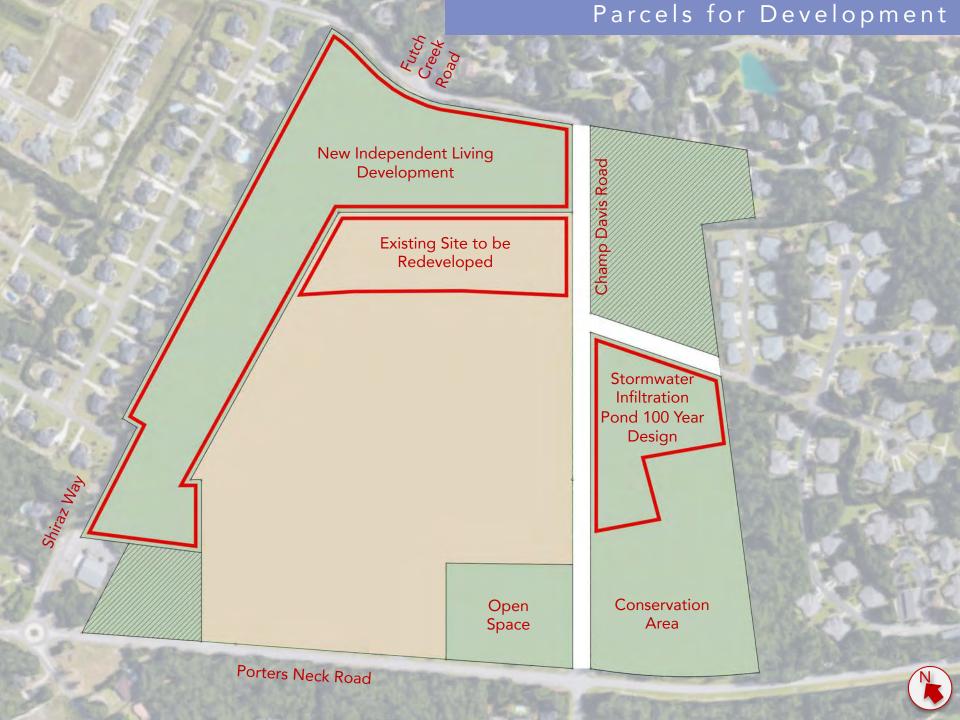


COMMUNITY MEETING









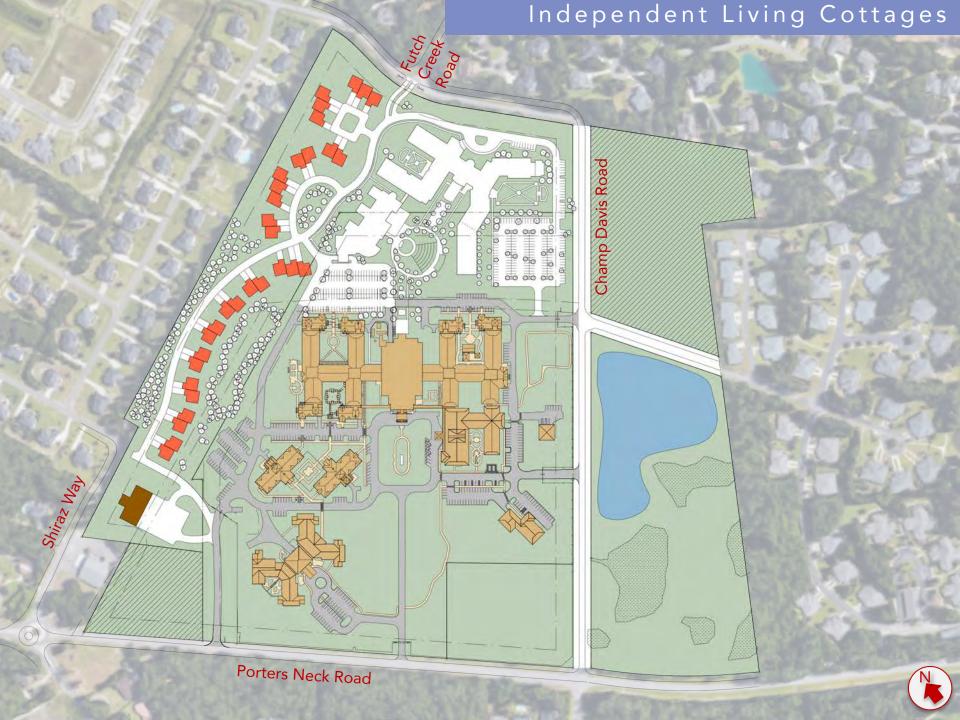


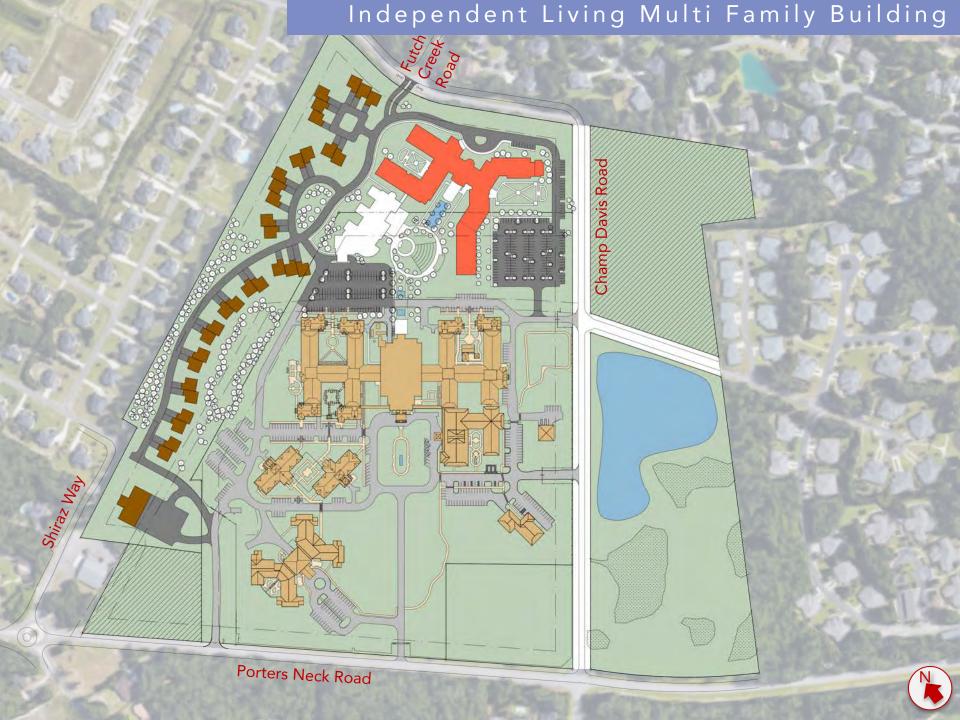




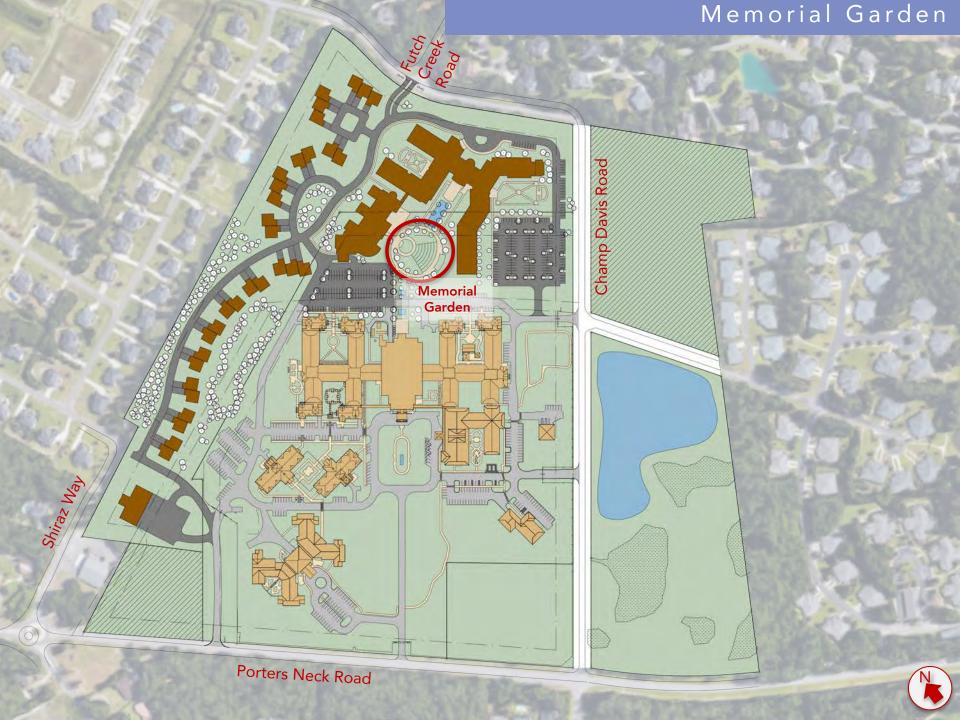


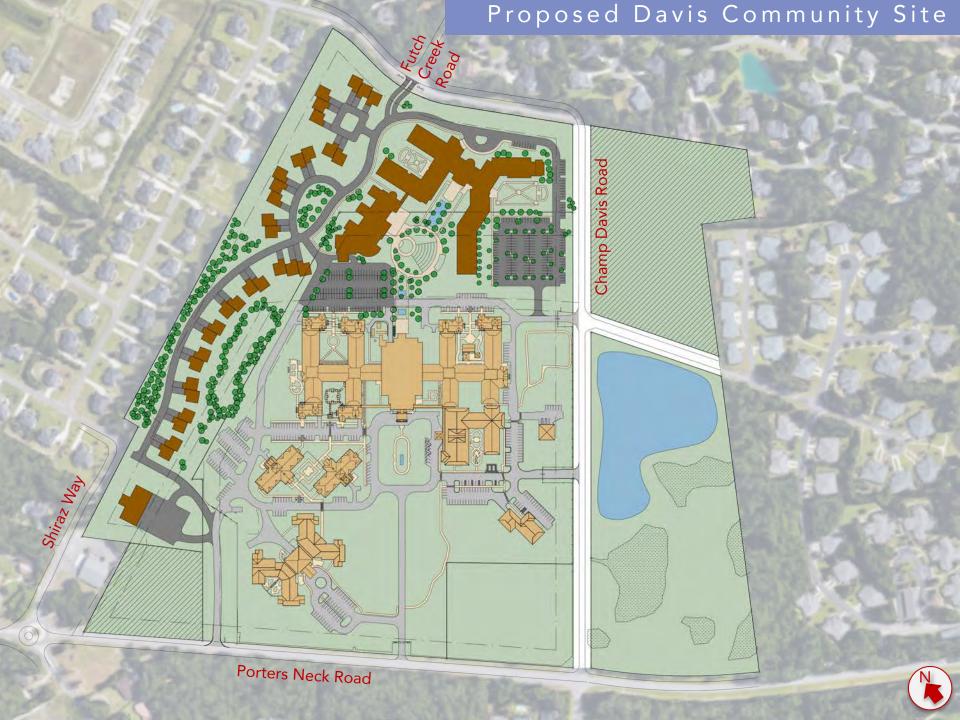




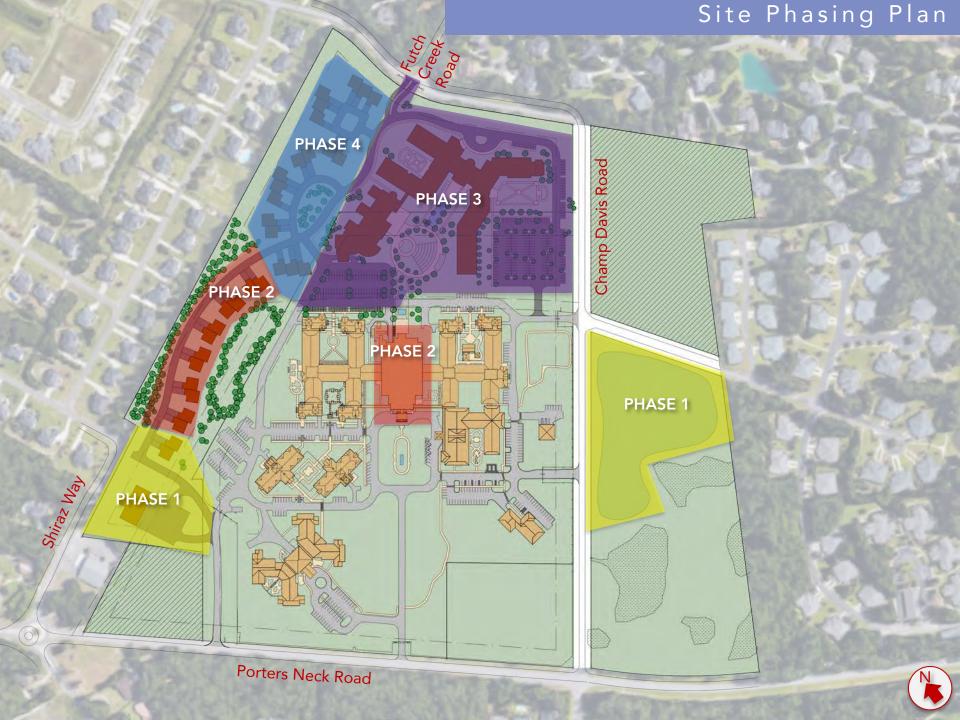


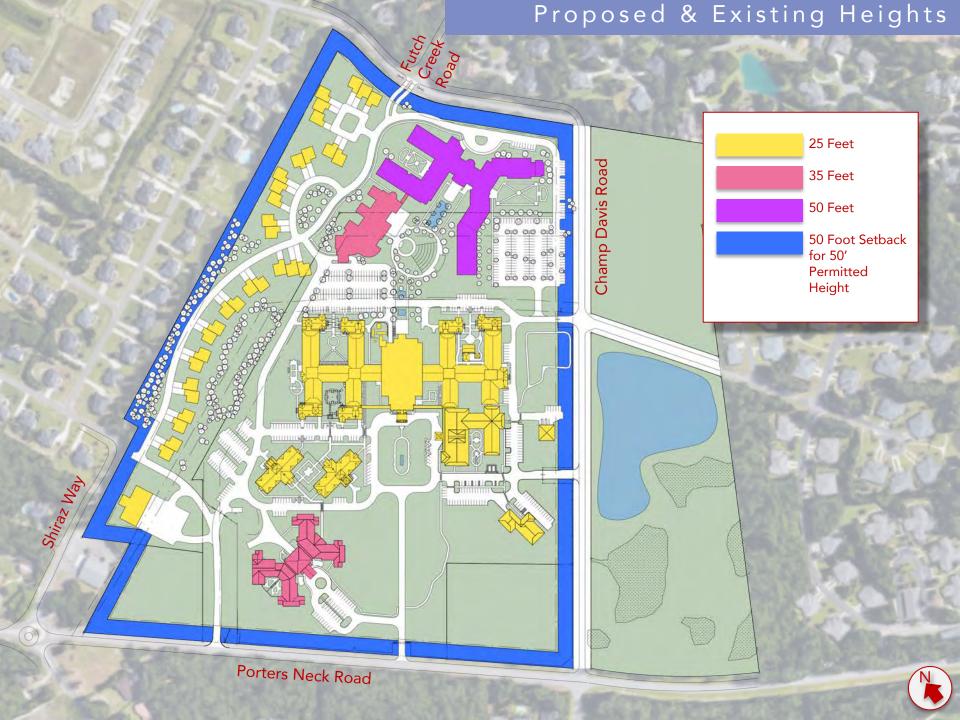


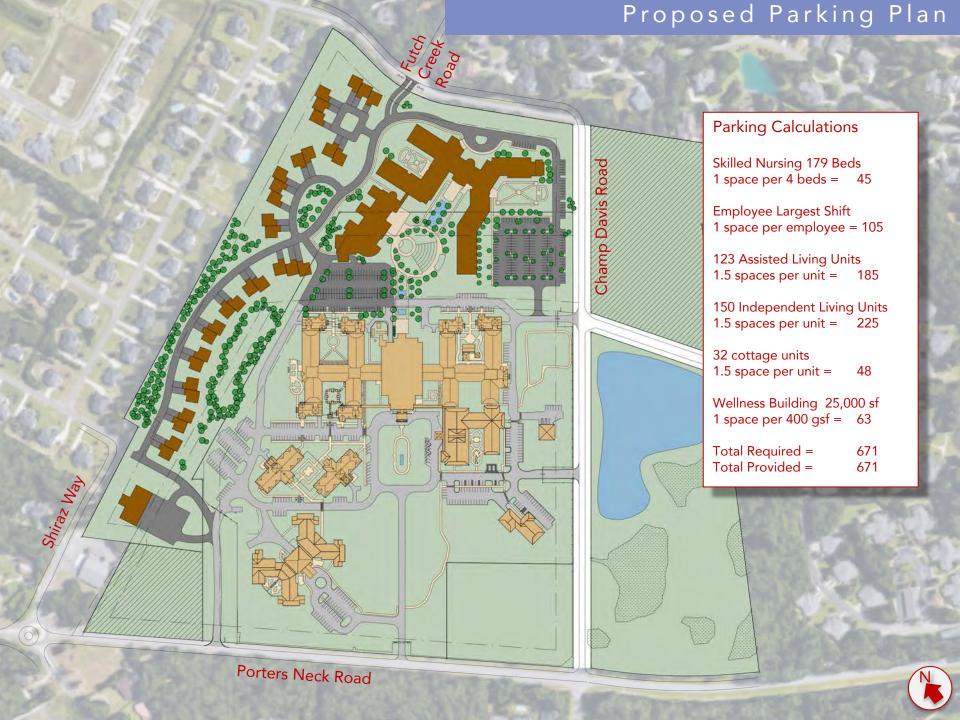


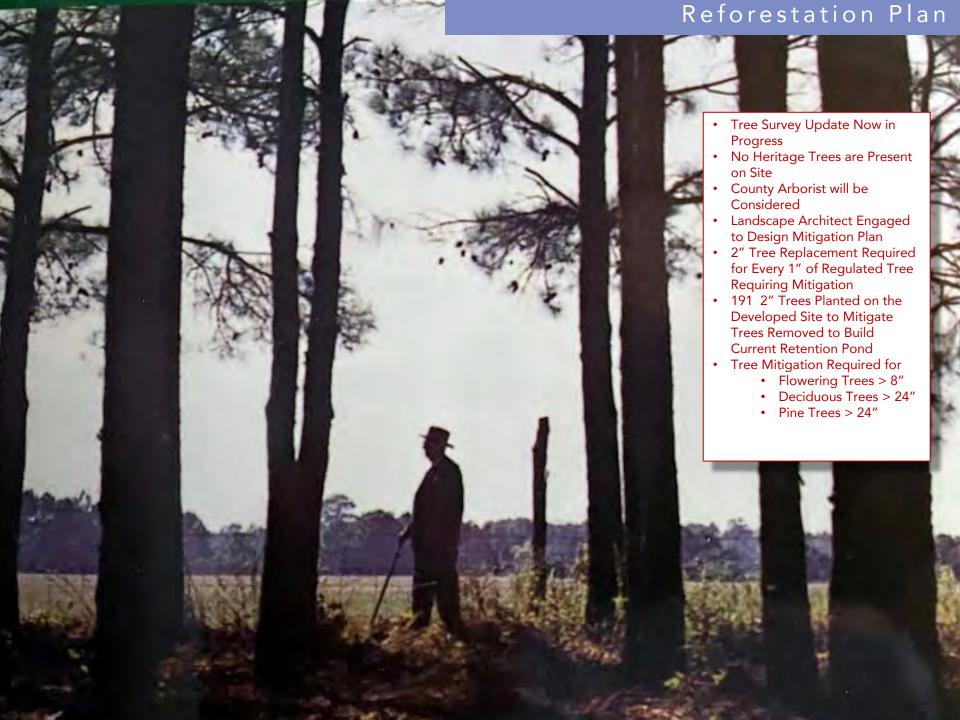












Independent Living (a) The Davis Community





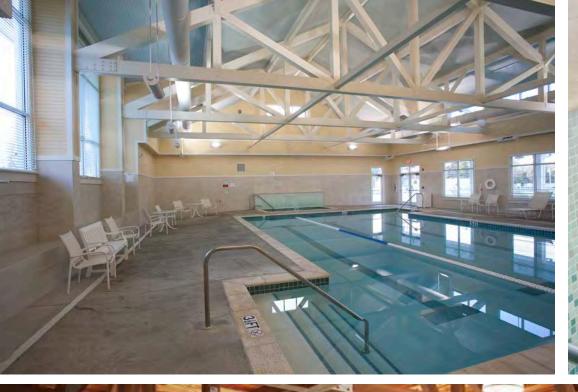






Community Services a The Davis Community







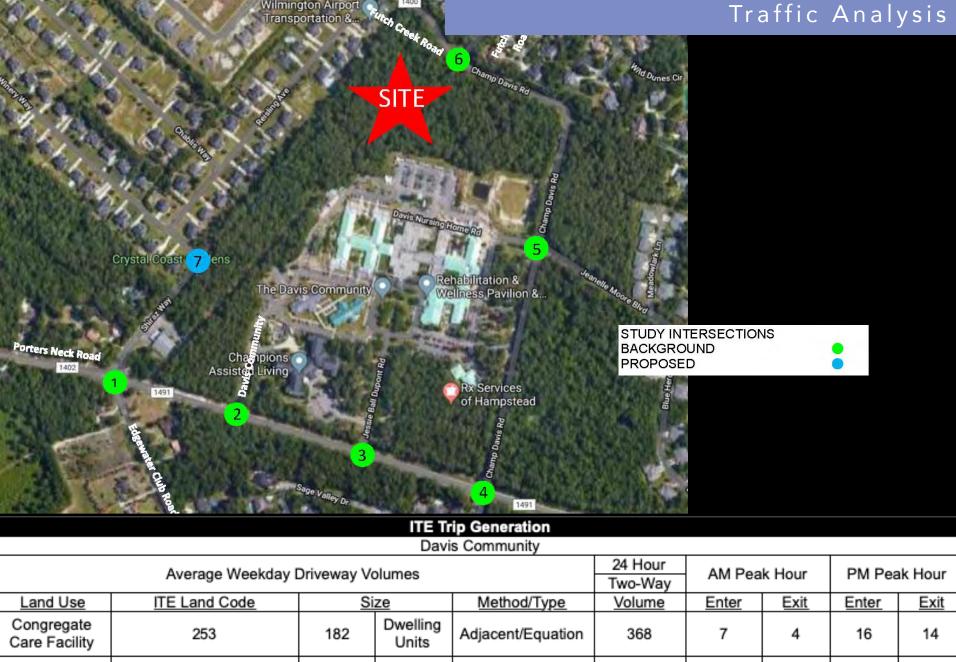




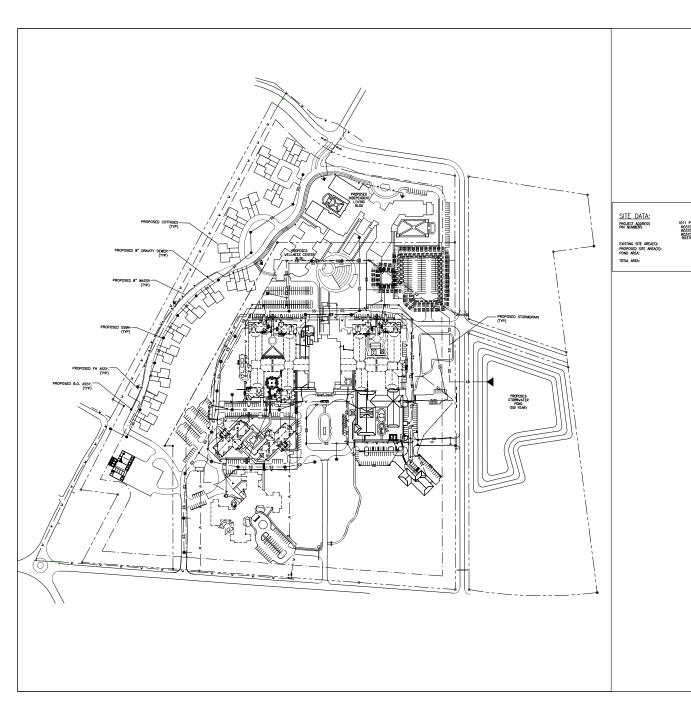








Senior Adult Dwelling Adjacent/Equation Housing Units Total Unadjusted Trips









HEALTH CARE CENTER Wilmington, North Carolina

CONCEPTUAL PLAN

1011 PORTERS NECK RD R03700-001-005-000 R03700-002-001-000 R03700-002-001-000 R03700-002-002-001 37.45 AC 5.0 AC 60.36 AC

SITE NOTES:

DAVIS P.C. ENGINEERING, P. of that Street on North Carolina 28401 –783-5100 –783-5631





DATE 01.23.2020

C2

Thank You



KEYED NOTES

- (1) New Independent Living Multifamily Building 120 Units / Four Story / 50' High **SEEKING HEIGHT EXTENSION TO 50'**
- (2) New Wellness Center for Healthy Living One Story / 35' High
- (3) New Independent Living Cottages 32 Units / One Story / 25' High
- (5) New NCDOT Drive Gate at North Entrance Independent Living Campus

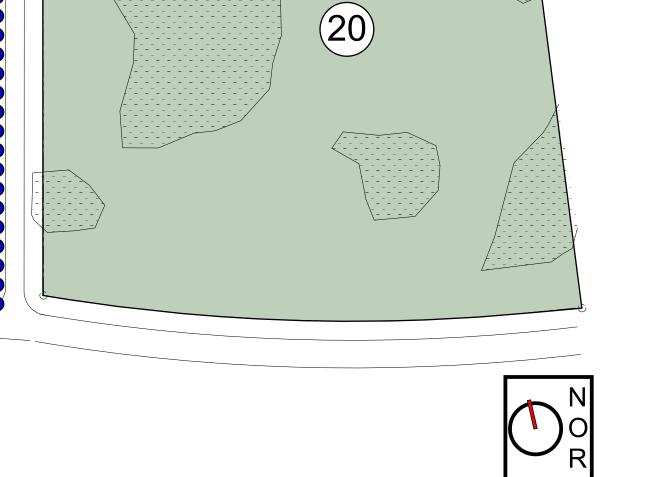
(4) New Central Services Building - One Story / 25' High

(6) Future Independent Living Expansion - 30 Units / Four Story / 50' High

- 7 New Memorial Garden
- (8) Existing Community Center One Story / 25' High (Under Renovation)
- 9 Existing Fire Station
- (10) Existing Skilled Nursing Pods 34 Beds / One Story / 25' High
- (11) Existing Assisted Living 123 Beds / Three Story / 35' High
- (12) Existing Skilled Nursing -145 Beds / One Story / 25' High
- (13) Existing Main Entrance Existing Gate to Be Relocated to Improve Vehicle Stacking

(30)

- (14) Existing South Service Drive Independent Living / Wellness Center
- (15) Undeveloped Parcel
- (16) Existing Admin / Pharmacy One Story / 25' High
- (17) Existing Rehab & Wellness One Story / 25' High
- (18) Existing HR Building One Story / 25' High
- (19) New 100 Year Storm Stormwater Infiltration Pond
- 20 Conservation Zone
- (21) Nature Trails
- 22) Greenspace
- (23) Remove Existing Wet 25 Year Storm Pond
- (24) Remove Existing Tower Cell Antenna Relocated
- New Gated Bike & Foot Trail (Non-Vehicular)
- (26) Champ Davis Memorial Garden
- (27) Overhead Power Easement
- 28 Memory Care Courtyard
- 29 Existing Service Area
- (30) Trails to Be Reworked or Embellished
- (31) Covered Parking Level One
- (32) East Driveway Entrance Rehab
- (33) East Driveway Entrance IL & SN
- (34) Future Parking for 30 Unit Expansion
- 35 Future Covered Surface Parking
- 36 Enclose Existing Carport



Proposed Site Plan

5)

(21)

PORTERS NECK ROAD

— PREFERRED POWERLINE RELOCATION TO

EXISTING POWER EASEMENT SEE SHEET

A102 FOR ALL EASEMENT LOCATIONS ————

(16)

(22)

(35)

(15)

(19)

PARKING DATA

179 SKILLED NURSING BEDS/ 1 SPACE PER 4 BEDS 123 ASSISTED LIVING UNITS AT 1.5 SPACES PER UNIT 32 COTTAGE UNITS AT 1.5 SPACE PER UNIT

TOTAL REQUIRED PARKING SPACES TOTAL PROVIDED SPACES

45 SPACES 105 SPACES 185 SPACES 225 SPACES 48 SPACES 63 SPACES 671 SPACES

EXISTING DEVELOPED SITE AREA DEVELOPED POND AREA TOTAL DEVELOPED SITE AREA UNDEVELOPED SITE AREA

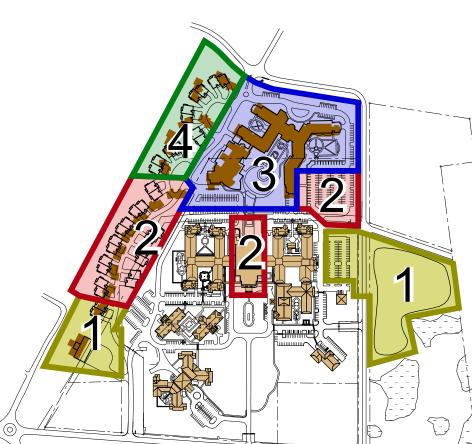
CONSERVATION SITE AREA 7.12 ACRES TOTAL SITE AREA 75.60 ACRES GROSS MINIMUM SITE AREA REQUIRED

MINIMUM OPEN SPACE REQUIRED 22.73 ACRES NET OPEN SPACE PROVIDED

PHASING SCHEDULE

JANUARY 2021 - JUNE 2022 BUILD MULTIFAMILY BUILDING & WELLNESS BUILDING

JANUARY 2021 - JUNE 2022 BUILD FINAL PORTION OF COTTAGES TO SYNC COMPLETION WITH MULTI FAMILY BUILDING



OPEN SPACE

50' SETBACK - 50' MAX HEIGHT EXISTING DECORATIVE FENCE & GATE

NEW DECORATIVE FENCE & GATE **DISTURBANCE** EXTEND STORM WATER PIPES TO MEET NCDOT REQUIREMENTS -

NEW DECORATIVE WOOD FENCE

20' MINIMUM PLANTED BUFFER YARD - INTERIOR OF PROPERTY LINE

734 SPACES

LANTZ-BOGGIO
Architects & Interior Designers

hmh

BOWMAN

/URRAY

HEMINGWA

SITE DATA

37.45 ACRES NET 5.00 ACRES NET 15.48 ACRES

20.00 ACRES GROSS 21.13 ACRES

TOTAL BUILDING FOOTPRINT 5.00 ACRES APPROX TOTAL IMPERVIOUS COVERAGE 35.00 ACRES APPROX

JUNE 2020 - NOVEMBER 2020 INSTALL NEW POND AND CENTRALIZED SERVICES BUILDING DECEMBER 2020 - MAY 2021 RENOVATE COMMUNITY CENTER, FILL IN OLD POND & BUILD FIRST COTTAGES

LEGEND

NEW BUILDING FOOTPRINT **EXISTING BUILDING FOOTPRINT** MAIN BUILDING ENTRANCE

NEW PAVED SURFACE

RELOCATED CELL ANTENNA FROM WATER TOWER

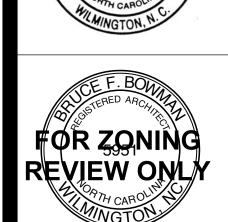
CHECKED BY

Bowman February 6, 2020 SHEET NUMBER

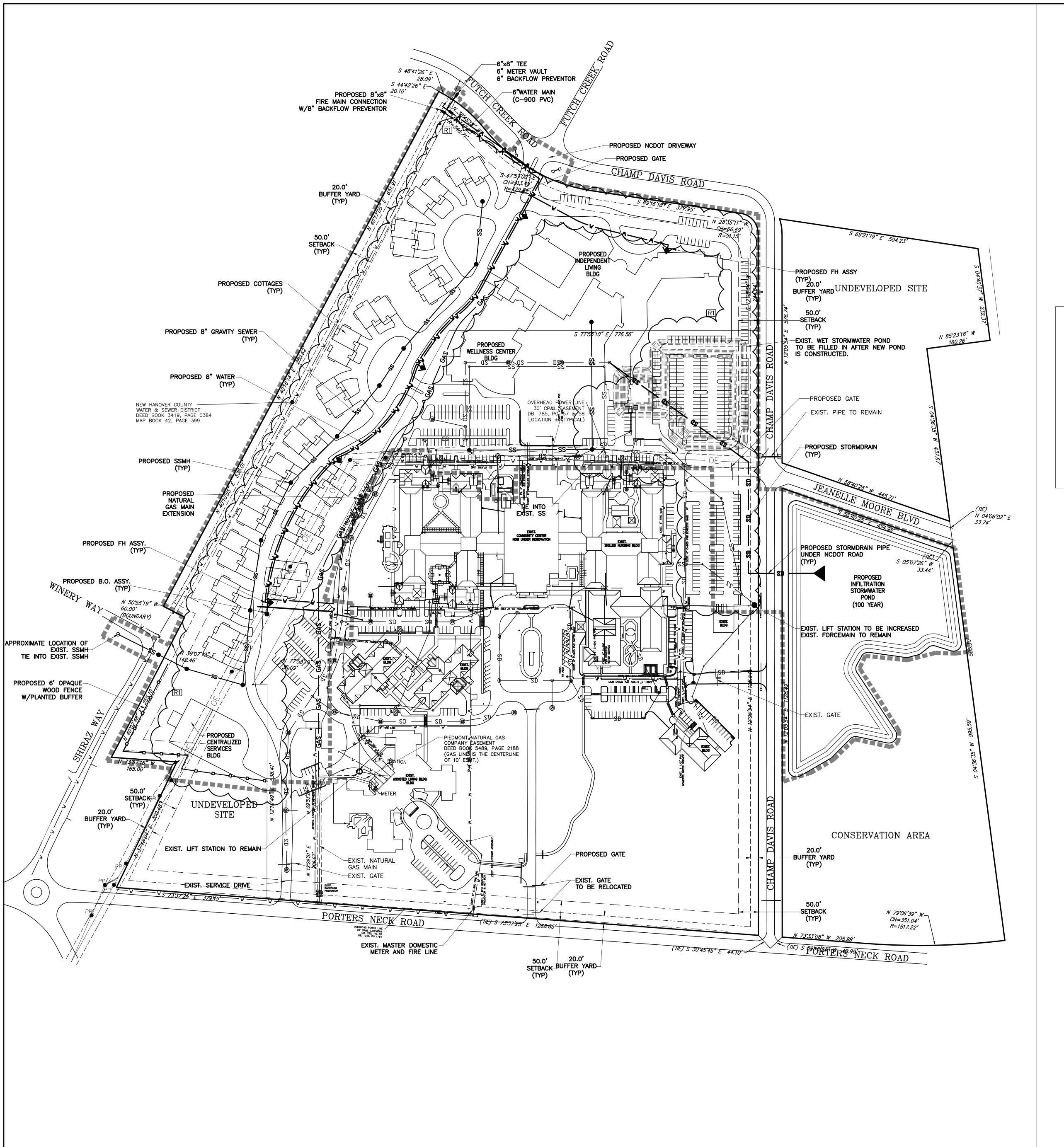
A101

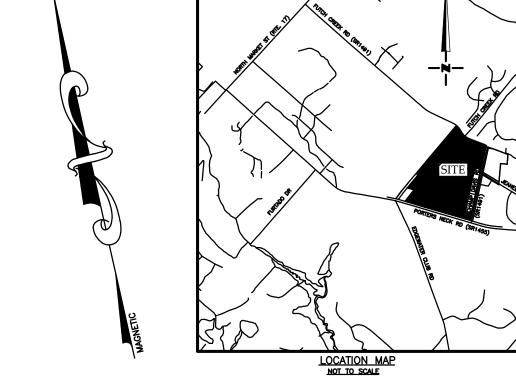
R1 FEBRUARY 21, 2020



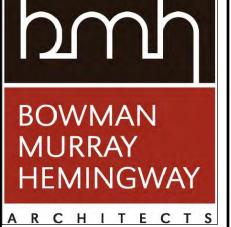












514 Market Street Wilmington, NC 28401 Tel — (910) 762—2621 Fax — (910) 762—8506

SITE DATA:

1011 PORTERS NECK RD PROJECT ADDRESS PIN NUMBERS R03700-001-005-000 R03700-002-001-000 R03700-002-002-000 R03700-002-002-001

EXISTING SITE AREA(S): 37.45 AC PROPOSED SITE AREA(S): 17.91 AC 5.0 AC POND AREA: 60.36 AC TOTAL AREA:

37 AC

220,678 SF

1,510,225 SF

LIMITS OF DISTURBANCE: TOTAL BUILDING FOOTPRINT: TOTAL IMPERVIOUS COVERAGE:

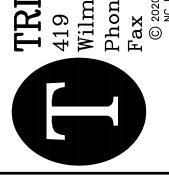
SITE NOTES:

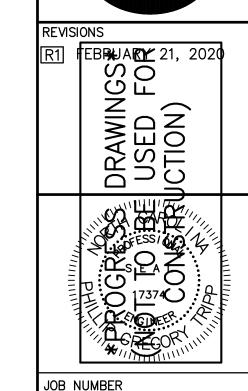
SITE LIGHTING:

1) ALL STREET AND PARKING LIGHTING WILL BE DESIGNED AND INSTALLED BY DUKE ENERGY. 2) ALL LIGHTING ON BUILDINGS BE DESIGNED AND INSTALLED BY BUILDER 3) LIGHT FIXTURES TBD.

SURVEY, UTILITIES & FLOODPLAIN NOTES: 2) LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. "ZONE X MINIMAL FLOOD RISK" AREA AS SHOWN ON FLOOD INSURANCE RATE MAP NO. 3720327000K, PANEL NO. 3270 WITH AN EFFECTIVE DATE OF FEBRUARY 16, 2007.

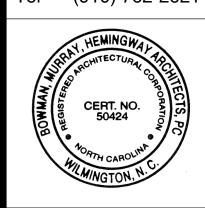
1) UTILITIES SHOWN HEREON ARE FROM INFORMATION VISIBLE IN THE FIELD AND MAPS PROVIDED BY OTHERS. UTILITIES OTHER THAN WHAT ARE SHOWN MAY EXIST. 3) DEVELOPER WILL COORDINATE WITH DUKE ENERGY. 5) WATER AND SEWER WILL BE PROVIDED BY CFPUA. 6) SUBJECT PROPERTIES ARE ENTIRELY LOCATED WITHIN A

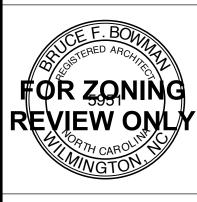




DRAWN BY EJW 02.06.2020 SHEET NUMBER

BAR SCALE 1"=100'





Ball CHECKED BY Bowman

> February 6, 2020 SHEET NUMBER

> > A100

Existing Site Plan

PORTERS NECK ROAD



2. NEW 2020 TREE SURVEY UNDERWAY

LEGEND

- CM CRAPE MYRTLE

