

Memo

To: Mayor Currin and Town Board of Commissioners

From: Meredith Gruber, Planning Director

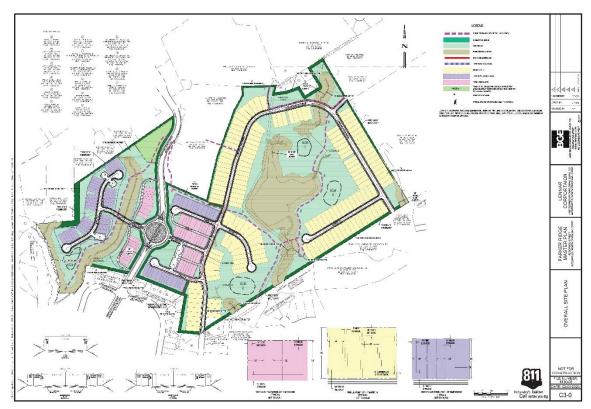
Date: March 7, 2023

Re: Parker Ridge Map Amendment MA 22-03 and Annexation Petition ANX 22-06

Background

Legislative Hearing Continued from February 7, 2023

The legislative hearing for the Parker Ridge Map Amendment (Rezoning) and Annexation Petition was opened on November 15, 2022 and continued to February 7, 2023. The hearing was closed on February 7, 2023, and the decision for the rezoning and annexation applications was continued to March 7, 2023. The purpose for the continuance to March 7 was to allow the applicant time to draft a condition for construction of a roadway connection from the Parker Ridge project to Young Street as well as hold a second neighborhood meeting.



Parker Ridge Rezoning Concept Plan

Map Amendment/Rezoning Application (MA 22-03)

The Town of Rolesville Planning Department received a Map Amendment (Rezoning) application in February 2022 for 88.50 acres located at 82 School Street, 120 School Street, and 201 Redford Place Drive with Wake County PINs 1758988411, 1758884270, 1768091558, and 1758983710. The applicant, Lennar Carolinas LLC, is requesting to change the zoning from Residential Low (RL) and Residential and Planned Unit Development (R&PUD) to Residential Medium Conditional Zoning District (RM-CZ) and Residential High Conditional Zoning District (RH-CZ). A concept plan showing 162 single family lots at a density of 2.80 units per acre, and 114 townhome lots at a density of 3.93 units per acre, is included as a condition of the rezoning request. The overall density of the entire neighborhood is 3.18 units per acre.

The applicant is proposing thirteen rezoning conditions, included as an attachment. Since the Town Board of Commissioners' meeting on February 7, the applicant has added two conditions—one about a greenway connection to School Street and the other about design and construction of a collector street connection to Young Street.

Annexation Petition (ANX 22-06)

The Town of Rolesville received a contiguous voluntary annexation petition for two parcels totalling 61.37 acres located at 82 and 120 School Street with Wake County PINs 1758988411 and 1758983710 into the Town of Rolesville Town Limits. These two parcels are two of four parcels that make up the Parker Ridge rezoning case, MA 22-03.

As provided by G.S. 160A-31, the petition was investigated by the Town Clerk as to its sufficiency of meeting G.S. 160A-31. The Town Board of Commissioners scheduled a legislative hearing for the Parker Ridge annexation petition, ANX 22-06, on November 15, 2022.

Neighborhood Meetings

The applicant held a neighborhood meeting on August 10, 2022 at the Rolesville Community Center. The fifteen neighbors in attendance asked about the development timeframe, open space, townhome height, buffers, traffic including School Street logistics, and construction logistics. Meeting minutes are included as an attachment.

The applicant held a second neighborhood meeting on February 28, 2023 at the Rolesville Community Center. An update will be provided at the March 7, 2023 Town Board of Commissioners' meeting.

Comprehensive Plan

Land Use

The Future Land Use Map shows the subject parcels as High Density Residential, which is described as a mixed use neighborhood of single family, duplex, condominium, townhouse, or multifamily residential. These are lots or tracts at a density range of six to twelve dwelling units per acre including preserved open space areas.

Single family and townhome dwellings are residential types listed in the High Density Residential land use category definition; however, the average density for the proposed development is 3.18 units per acre which falls in the Medium Density Residential range.

Community Transportation Plan

The Town of Rolesville's Community Transportation Plan includes recommendations for thoroughfares, collectors, and intersections.

Thoroughfare Recommendations

- The subject property has no frontage on any thoroughfare roadways.
- The closest throughfares the proposed development are Main Street and Young Street.

Collector Recommendations

- Redford Place Drive is an existing collector roadway that passes through the proposed Parker Ridge development.
- School Street is proposed to continue through the subject property and is shown on the Parker Ridge Concept Plan. (It was determined at the February 7 Town Board of Commissioners' meeting that it is preferred to remove this connection from the Parker Ridge rezoning concept plan. This case will be followed by a Community Transportation Plan amendment to remove School Street as a collector from Rolesville's roadway network.)
- Another collector is proposed to connect to Young Street, and a street stub is shown on the Parker Ridge Concept Plan.

Intersection Recommendations

- There are no intersection recommendations associated with the subject property.
- The closest intersection recommendations are located at Main Street and Redford Place Drive as well as at Main Street and Young Street.

Greenway Plan

As per the 2022 Greenway Plan, proposed greenways are shown in the following locations:

- Along the northwestern side of Redford Place Drive.
- Running north-south through the single family portion of the proposed development.
- In addition, a greenway connection is shown through the park between the proposed townhome portion and single family portion of the development.

Consistency

The applicant's request for 162 single family lots and 114 townhome lots at an average density of 3.18 units is consistent with the Town of Rolesville's Comprehensive Plan for the following reasons:

- The proposed housing types, single family detached and townhomes, are consistent with the High Density Residential land use category.
- Community Transportation Plan collector recommendations are illustrated in the rezoning concept plan.
- Greenways are shown as recommended in the 2022 Greenway Plan.

The applicant's request may not be consistent with the Town's Comprehensive Plan for the following reason:

 The proposed density for the single family portion of Parker Ridge is 2.80 units per acre and for the townhome portion is 3.93 units per acre. The average density of 3.18 units per acre is lower than the High Density Residential land use category's typical density of 6 – 12 units per acre.

Traffic

Traffic Impact Analysis

The consulting firm Stantec performed the Traffic Impact Analysis for this project on behalf of the Applicant and the Town; see the attached Traffic Impact Analysis Final Report dated August 15, 2022 and the updated Traffic Impact Analysis Report dated January 31, 2023. Traffic counts were obtained on Thursday, June 9, 2022 at four locations. The project inputs were 162 single-family (detached) homes and 114 townhomes, with build-out anticipated in 2028. Primary access is described as coming from the Redford Place roundabout, with an additional access (Concept Plan Street D) via extension of School Street from South Main Street.

TIA Summary - Trip Generation	Entering	Exiting	Total
AM Peak (7-9 am)	47	123	170
PM Peak (4-6 pm)	134	86	220
Weekday Daily Trips	1,195	1,196	2,391

Five intersections were studied for capacity analysis and level of service impact for this development.

TIA Summary – Intersection Improve	ements
Jonesville Road at Prides Crossing (updated January 2023)	No improvements.
South Main Street at Realigned Burlington Mills Road (updated January 2023)	No improvements.
Redford Place Drive/Rogers Road at South Main Street	No Improvements. Intersection functions at Level of Service E under No Build and Build scenarios at PM Peak.
Old Rogers Road/School Street at South Main Street	No Improvements. *Southbound Old Rogers should consider right-in/right-out.
School Street at School Driveway/ Scarboro Driveway/Access C (updated January 2023)	If Access C is constructed, the driveway should be constructed with one ingress lane and one egress lane with 100 feet of internal protective stem. If Access C is not pursued, remove the connection from the Community Transportation Plan.
Redford Place Drive at School Driveway	No improvements.
US 401 at Young Street (updated January 2023)	No improvements.
US 401 Westbound U-Turn (updated January 2023)	No improvements.
US 401 Eastbound U-Turn (updated January 2023)	No improvements.

South Main Street at Virginia Water Drive Extension (updated January 2023)	No improvements.
Redford Place Drive at (Development) Access A / Access B	Construct new streets at opposite sides of roundabout, with 100' minimal internal protective stems.
Young Street at Access D (updated January 2023)	Construct Access D as a full-movement access point. Construct Access D with one ingress lane and one egress lane with 100 feet of internal protective stem. Provide northbound left turn lane with 75 feet of full-width storage and appropriate taper.

Development Review

The Technical Review Committee (TRC) reviewed this rezoning request and concept plan. There are no outstanding comments to be addressed.

Planning Board Recommendation

At the September 26, 2022 meeting, Planning Board members heard presentations from Planning staff and the Applicant team on Map Amendment/Rezoning MA 22-03 Parker Ridge. Board members had questions about the park land dedication (if anything would be built) and if there had been any collaboration with the Wake County Public School System on the functionality of School Street. The applicant noted the park land dedication would not include the construction of any amenities, and collaboration would likely take place with the school system during the production of Construction Infrastructure Drawings.

The Planning Board unanimously recommended approval of rezoning request, MA 22-03 Parker Ridge. With that recommendation came an expectation of addressing concerns about traffic on School Street.

Staff Recommendation

Staff finds that the proposed rezoning request and associated residential project is generally consistent with the Comprehensive Plan on many fronts but could more greatly fulfill the High Density Residential vision with a varied, denser housing and an overall mixed use development. Staff agrees with the Planning Board's recommendation for approval and associated expectation of addressing traffic concerns on and around School Street.

Consistency and Reasonableness

As noted above under the Comprehensive Plan section of this report, the rezoning request for the subject parcels is somewhat consistent with the future land use designation, High Density Residential. The application is consistent with the Community Transportation Plan as well as the Greenway Plan. On balance, MA 22-03 is generally consistent with the Comprehensive Plan and other applicable Plans and is therefore reasonable.

Proposed Motions

- 1. Motion to (approve or deny) rezoning request MA 22-03 Parker Ridge.
- 2. (Following Approval) Motion to adopt a Plan Consistency Statement and Statement of Reasonableness for MA 22-03.
- 3. Motion to (approve or deny) the annexation petition received under G.S. 160A-31 for ANX 22-06 Parker Ridge.

Or

4. Motion to continue the legislative hearing for MA 22-03 and ANX 22-06 to a future Town Board meeting to continue discussion and exchange of information.

Attachments

1	Application
2	Annexation Petition and Attachments
3	Vicinity Map
4	Future Land Use Map
5	Zoning Map
6	Neighborhood Meeting Minutes
7	Concept Plan
8	Proposed Conditions
9	Traffic Impact Analysis Reports
10	Applicant Presentation



Contact Information Property Owner See attached addendum for all owner contact information Address See attached addendum City/State/Zip See attached addendum Phone See attached addendum Email See attached addendum Developer Lennar Carolinas LLC c/o Collier Marsh Contact Name Collier Marsh Address 301 Fayetteville Street City/State/Zip Raleigh, NC 27601 Phone 919-835-4663 Email colliermarsh@parkerpoe.com **Property Information** Address 82 School Street, 201 Redford Place Drive, and 120 School Street (See attached addendum for additional information by parcel) Wake County PIN(s) 1758988411, 1758884270, 1768091558, and 1758983710 Current Zoning District RL, R and PUD Requested Zoning District RM and RH Total Acreage 88.36 Owner Signature I hereby certify that the information contained herein is true and completed. I understand that if any item is found to be otherwise after evidentiary hearing before the Town Board of Commissioners, that the action of the Board may be invalidated. Signature av. 7 Lul Pl L. ____ Date 12-29-20 21 STATE OF NORTH CAROLINA COUNTY OF I, a Notary Public, do hereby certify that _____ personally appeared before me this day and acknowledged the due execution of the foregoing instrument. This My commission expires Town of Rolesville

PO Box 250 / Rolesville, North Carolina 27571 / RolesvilleNC.gov / 919.554.6517



Case	No
Date	

Contact Information	
Property Owner See attached addendum for all owner contact info	ormation
Address See attached addendum	City/State/Zip See attached addendum
Phone See attached addendum	Email See attached addendum
Developer Lennar Carolinas LLC c/o Collier Marsh	
Contact Name Collier Marsh	
Address 301 Fayetteville Street	_ City/State/Zip Raleigh, NC 27601
Phone 919-835-4663	Email colliermarsh@parkerpoe.com
Property Information	
	ool Street (See attached addendum for additional information by parcel)
Wake County PIN(s) 1758988411, 1758884270, 1768091558, and 1758	3983710
Current Zoning District RL, R and PUD	Requested Zoning District RM and RH
Total Acreage 88.36	ann-
Owner Signature	
I hereby certify that the information contained herein is	true and completed. I understand that if any item is
found to be otherwise after evidentiary hearing before	the Town Board of Commissioners, that the action of the
Board may be invalidated.	
Signature	Date 12-29-202
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STATE OF NORTH CAROLINA	
COUNTY OF SGUIND	
I, a Notary Public, do hereby certify that()	
personally appeared before me this day and acknowle	edged the due execution of the foregoing instrument. This
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My commission expires / (-) 2011	NOTA SE
Signature ///	5 96 al
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PO Box 250 / Rolesville, North Carolina 27571 / RolesvilleNC.gov / 919.554.6517



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COUNTY OF Gailton	4
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My commission expires 1-1. 202	Z
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personally appeared before me this day and active	cknowledged the due execution of the foregoing instrument. This day of 20 20
My commission expires 12 2025 Signature	Seal NOTARL
Town	n of Rolesville Planning UBLIC
PO Box 250 / Rolesville, North	Carolina 27571+RolesvilleNC.goy (919.554.6517



Metes and Bounds Description of Property See attached Exhibit B



Rezoning Justification
See attached addendum

EXHIBIT A

to

School Street Rezoning Application Property and Owner Contact Information

Wake County PIN: 1758988411

Address: 82 School Street, Rolesville, NC 27571

Current Zoning District: RL

Requested Zoning District: RM and RH Total Acreage: 60.97 acres

Property Owner: W. Harold Parker Jr and Catherine Faye Parker

Owner Mailing Address: 149 Stonebridge Drive City/State/Zip: New London, NC 28127

Phone: N/A Email: N/A

Wake County PIN: 1768091558

Address: 0 School Street, Rolesville, NC 27571

Current Zoning District: RL Requested Zoning District: RM

Total Acreage: 0.14 acres

Property Owner: W. Harold Parker Jr and Catherine Faye Parker

Owner Mailing Address: 149 Stonebridge Drive City/State/Zip: New London, NC 28127

Phone: N/A Email: N/A

Wake County PIN: 1758884270

Address: 201 Redford Place Drive, Rolesville, NC 27571

Current Zoning District: R and PUD

Requested Zoning District: RH

Total Acreage: 26.99 acres

Property Owner: Rolesville Development LLC

Owner Mailing Address: PO Box 30803

City/State/Zip: Greenville, NC 27833

Phone: N/A Email: N/A

Wake County PIN: 1758983710

Address: 120 School Street, Rolesville, NC 27571

Current Zoning District: RL Requested Zoning District: RM Total Acreage: 0.4 acres

Property Owner: W. Harold Parker, Jr.
Owner Mailing Address: 149 Stonebridge Drive
City/State/Zip: New London, NC 28127

Phone: N/A Email: N/A

PPAB 6805825v1

Rezoning Justification

Parker Ridge is a proposed residential development with a combination of single family detached and single family attached (townhouse) uses. Parker Ridge will benefit the public by creating more housing choices and needed housing supply in a key location near downtown Rolesville. The request will allow for development that is consistent with nearby neighborhoods and will complement the established character of the surrounding area. Parker Ridge includes a significant amount of open space, offsetting any impacts of the development and preserving the natural features of the site. Parker Ridge is consistent with the Town of Rolesville's long range plans and will further the Town's goals outlines in the Rolesville Comprehensive Plan.

Parker Ridge is consistent with the Future Land Use Map. The subject property is designated as High Density Residential on the Future Land Use Map. (Comprehensive Plan p. 39) This category contemplates mixed use neighborhoods consisting of single family, duplex, condominium, townhouse or multifamily residential uses. (Comprehensive Plan p. 37) Parker Ridge will include the desired mixture of uses, with a combination of single family detached and single family attached uses, accompanied by substantial open space.

Parker Ridge also fulfills the following additional goals of the Comprehensive Plan:

Major Recommendation: Create a Diversity of New Houses, but Ensure High Quality and Limited Locations for Multi-Family Units. The Comprehensive Plan calls for more dense residential uses in limited, appropriate locations including locations closer to Main Street and areas closer to downtown. Parker Ridge is in close proximity to Main Street and Downtown. The site is a short walking distance from the many services and business currently located along Main Street and is an appropriate location for the proposed mix of residential uses.

Major Recommendation: *Celebrate Downtown*. The Comprehensive Plan seeks mixed use development, including diverse housing options, near downtown to activate the downtown core. Parker Ridge will offer a mix of residential uses in the vicinity of the downtown core, in a location walkable to existing commercial development and will help to activate the downtown core.

PPAB 6805825v1 2



TOWN OF ROLESVILLE PETITION FOR ANNEXATION

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professional lan	d surveyor showing the	beamdaries of the a	rea or property fo	or annexation into the To mnexation boundary plat	wn of Rolesville.
ION 1 - LOCATION					
Note: If the land is con		rporate limits, the pro	posed annexation bo	ate limits is not primary, undary will include all inte	■ Yes or □ No rvening right-of-ways for streets,
ION 2 - VESTED RIC	GHTS				
	RESIDENCE SERVICES	oth contiguous and	nen-contiguous ar	mexations to file a signer	l statement declaring whethe
					oject to the petition. Do you
declare vested rights	for the property subject	ct to this petition?	∃Yes or 🗓	l No	
ION 3 - PROPERTY	DETAILE				
ION 3 - PROPERIT	DETAILS				
PIN Number	Real Estate ID	Deed Book	Page	Acreage To Be	Wake County
1	Number	Number	Number	Annexed	Assessed Value
1758988411	0053006	DB 005409	PG 00926	60.97	\$ 1,585,220
1758983710	0009270	DB 018732	PG 01014	0.40	s 172,956
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TOWN OF ROLESVILLE PETITION FOR ANNEXATION

The items below are required in order to complete your application and shall be submitted when the application if filed.

- A complete copy of the last deed of record for proof of ownership
- An annexation boundary plat/map for recordation at the Wake County Register of Deeds Office (mylar plat) prepared by a professional land surveyor showing the boundaries of the area or property for annexation into the Town of Rolesville.
- 3. A complete copy of the written metes and bounds description based on the annexation boundary plat/map.

SECTION 1 - LOCATION

Is the area contiguous with the existing primary corporate limits? Satellite corporate limits is not primary. \(\mathbb{Z}\) Yes or \(\mathbb{D}\) Note: If the land is contiguous to any existing corporate limits, the proposed annexation boundary will include all intervening right-of-ways for streets, easements, and other areas as stated in North Carolina General Statute \(\xi\)160-131(1).

SECTION 2 - VESTED RIGHTS

NC General Statues require petitioners of both contiguous and non-contiguous annexations to file a signed statement declaring whether vested rights have been established in accordance with G.S. 160A-385.1 or 153A-344.1 for properties subject to the petition. Do you declare vested rights for the property subject to this petition? \square Yes or \square No

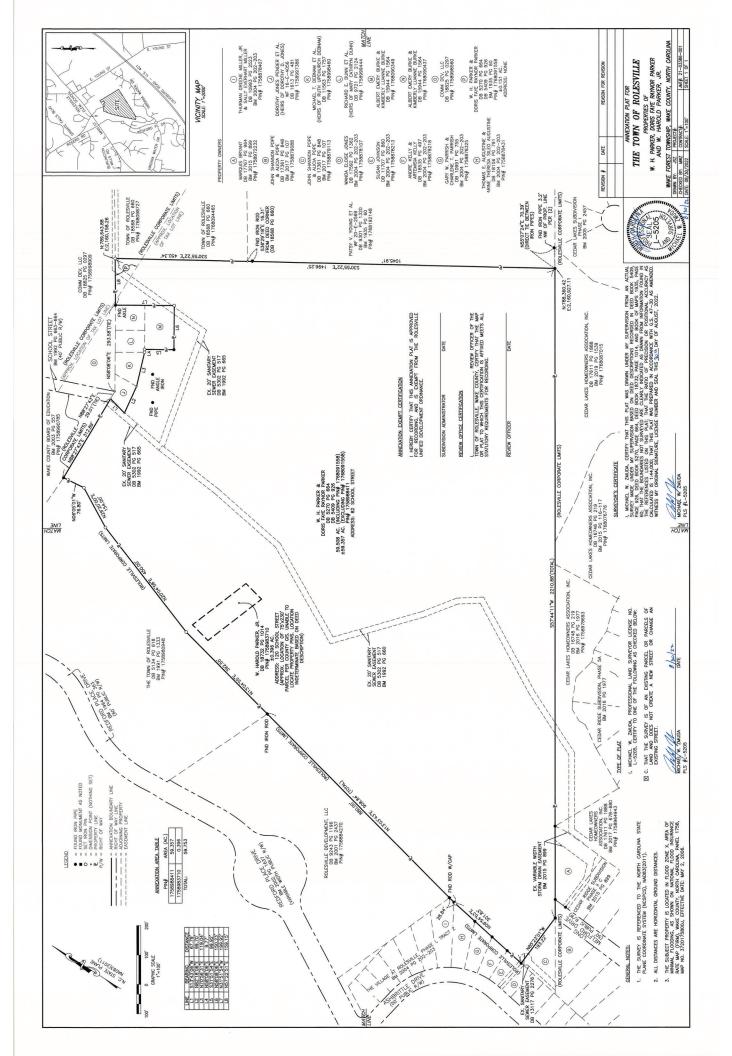
SECTION 3 - PROPERTY DETAILS

PIN Number	Real Estate ID Number	Deed Book Number	Page Number	Acreage To Be Annexed	Wake County Assessed Value
1758988411	0053006	DB 005409	PG 00926	60.97	\$ 1,585,220
1758983710	0009270	DB 018732	PG 01014	0.40	\$ 172,956
		DB	PG		\$

SECTION 4 - SIGNATURES AND VERIFICATION

We, the undersigned owners of the real properties contained in the metes and bounds description and plat/map attached hereto, respectfully request that the area described above be annexed and made part of the Town of Rolesville, North Carolina. By signing below, we acknowledge that all information is correct.

Signature of Owner #1 W. Harold Parker, Jr.		8-30-2022
ignature of Owner #1 W. Harold Parker, Jr.		Date Signed
Signature of Owner #2 Catherine Faye Parker		Date Signed
If property owned by a COMPANY OR CORPO State of North Carolina – Office of the Secretary of Sta	PRATION (NOTE: The company or corporte)	ation must be legally registered with
Name of Corporation		
Printed Name of Registered Agent	Signature of Registered Agent	
Address, State, Zip of Registered Office:		
1. \\		
arolina, Watauga County		
arolina, County	d State, do hereby certify that the above signed individual(s) a	opeared before me this day and signed the foregoing
arolina, County	d State, do hereby certify that the above signed individual(s) a	opeared before me this day and signed the foregoing
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arolina, County	Notary Public	stay V. Mills
arolina,	Notary Public	stay V. Mills



000363

PRESENTED

23 HOY 20 PH 2: 16

KENNETH C. WILKINS REGISTER OF DEEDS WAKE COUNTY

	Recording Time, Book and Page
Excise Tax	Parcel Identifier No. 72 - 79 County on the day of
	County on the
Mail after recording to Grantee	Pehort O. Belo. Atty., Durham, NC
This instrument was prepared by	Robert O. Belo, Atty., Durham, NC
Brief description for the Index	
NORTH C	AROLINA NON-WARRANTY DEED
THIS DEED made this GRANTOR	of October, 19 92, by and between GRANTEE

W. H. PARKER

DORIS FAYE RAYNOR PARKER

P. O. Box 92 Rolesville, NC 27571

Enter in appropriate block for each party: name, address, and, if appropriate, character of entity, e.q. corporation or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is altered a cknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that acknowledged in the City of grantee in the convey unto the Grantee in fee simple, all that acknowledged in the City of grantee in the convey unto the Grantee in fee simple in the convey unto the Grantee in the conv

certain lot or parcel of land situated in the City of

Wake County, North Carolina and more particularly described as follows:

See Exhibit A attached hereto and incorporated herein by reference.

				Page 664
is recorded in Pla	t Book 19	935 pag	e 60	
h undivided r parcel of land an	interest d all privile	ges and appu	rtenances thereto	belonging to the
plied, as to title to	the propert	y hereinabov	e described.	As he signed in its
nto set his hand and s seal to be hereunto	i scal, or if con affixed by an	orporate, has continued in the second	oused this instrument loard of Directors, th	e day and year first
ba	a les	Halber		(SEAL)
ONE	W. H.	PARKER		
×				(SEAL)
Z				
C. K.				(CDAT)
Y				(SEAL)
SE		•		(SEAL)
Þ				
WAKE		_County.		
of the County and S	tate aforesaid.	certify that	. H. PARKER	
of the County and o		,		Grantor,
d before me this day	and acknowled	dged the executi	on of the foregoing is	istrument withess mo
tamp or seal, this la.	day of	October	, 19	
		1.7	C / 1	Notary Public
pires: 10:1:919		· OTTAGY	7	
		County.		
A,	centa aforesaid	certify that		
e of the County and	State atoresam	3 -b-+ ho	ic	Secretary of
efore me this day and	d SCRHOMICORC	u piat ne	line corneration and	that he authority duly
act of the corporation	, the foregoin	ig instrument w	as signed in its name	Dy 165
with its corporate seal	and attested b	у	as its	Secretary.
and official stamp or	seal, this	day of		_, 19
Δ <i>Ω</i> !				
5 (arter				
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			ime and in the Rook	and Page shown on the
this certificate are dul	y registered at	t the date and t	, 1	
	periodes of	e neede eod	Wak	COUNTY
eaut	. REGISTER OF .Deputy/ Asset	mat-Register, of	Deeds.	
- - •				
		PO	ILE PRINTING CO., INC., P.O.	BOX 17376 RALEIGH, N.C. 27619
	of the County and Spires: 10-1-94 A, cof the County and sectore me this day and sectore me this day and act of the corporation with its corporate seal and official stamp or pires:	r parcel of land and all priviles uplied, as to title to the propert noto set his hand and scal, or if c s seal to be hereunto affixed by an with the County and State aforesaid defore me this day and acknowled tamp or seal, this lall day of series: 10-1-94. A, of the County and State aforesaid defore me this day and acknowledge act of the corporation, the foregoin with its corporate seal and attested the and official stamp or seal, this spires:	plied, as to title to the property hereinabove into set his hand and scal, or if corporate has a seal to be hereunto affixed by authority of its hand. W. H. PARKER O M. H.	W. H. PARKER W. H. PARKER County. Of the County and State aforesaid, certify that W. H. PARKER d before me this day and acknowledged the execution of the foregoing in tamp or seal, this lod day of October 19 92 Dires: 10-19th Carolina Corporation, and act of the corporation, the foregoing instrument was signed in its name with its corporate seal and attested by as its and official stamp or seal, this day of Carolina Corporation, and corporation and official stamp or seal, this day of Carolina Corporation. Carolina Carolina Corporation, the foregoing instrument was signed in its name with its corporate seal and attested by as its and official stamp or seal, this day of Carolina Carolina Carolina Corporation, and carolina Carolina Corporation, and act of the corporate seal and attested by as its and official stamp or seal, this day of Carolina Carolin

BK5409PG0928

BYHIBIT A

On the South side of the Raleigh-Rolesville paved Highway, and adjoining the lands of now or formerly, the Wake County School property and the Redford Estate on the West; H. J. Wall on the South; G. V. and C. D. Young, Mrs. J. W. Cash, Spencer Pulley and A. V. Gulley on the East, containing 67 acres, more or less, being Farm No. 13 of the Fleming Land as shown in Book of Maps 1935 at Page 60, Wake County Registry, except Church Property, now or formerly owned by the School, Registry, except Church Property, now or formerly owned by the School, see Deed Book 23 at Page 103, and deed from J. W. Bunn, et al to County Board of Education, dated the 21st day of April, 1941, and duly recorded in the Wake County Registry, and being the identical tract conveyed by the said J. W. Bunn, et al to W. C. Roberts, now deceased, by deed dated the 9th day of October, 1941, and recorded in Book 874 at Page 255, Wake County Registry.

There is excepted from the above description and from the operation of the instant conveyance the following lots conveyed since the 9th day of October, 1941: lots conveyed to John Perkinson, June A. Jones, Ollie Harris, Richard Freeman, Bertha Horton and Johnnie Brown.

The tract conveyed by the instance conveyance was devised to Lessie H. Roberts by the said W. C. Roberts by will duly probated and of record in the office of the Clerk of the Superior Court of Wake County, North Carolina.

BK018732PG01014

WAKE COUNTY, NC TAMMY L. BRUNNER REGISTER OF DEEDS PRESENTED & RECORDED ON 10-05-2021 AT 11:01:40 STATE OF NC REAL ESTATE EXCISE TAX: \$662.00 BOOK: 018732 PAGE: 01014 - 01015

NORTH CAROLINA GENERAL WARRANTY DEED

Parcel Identifi By:	er No. 0009270 Verified by	County on the	day of	, 20
Mail/Box to: 0	Grantee			
This instrumer	nt was prepared by: Kennon Craver, PLLC	1		
Brief descripti	on for the Index: 120 School Street, Roles	ville, NC 27571		
THIS DEED n	nade this <u>30th d</u> ay of September, 2021 b	y and between		
	GRANTOR		GRANT	EE
Kashina Jones Ivory Moore	(a/k/a Kashina Moore) and husband,	W. Haro	ld Parker, Jr.	
ADDRESS:	120 School Street Rolesville, NC 27571	ADDRE		nebridge Drive Indon, NC 28127

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in Wake County, North Carolina and more particularly described as follows:

BEGINNING at a stake at the southwest corner of the intersection of the Public Road and a plantation road leading to the pond of W.C. Roberts; thence along the western edge of said plantation road in a southerly direction, 230 feet to an iron stake; thence in a westerly direction 75 feet to an iron stake; thence in a northerly direction 230 feet to an iron stake in the southern margin of the Public Road; thence in an easterly direction, along the southern margin of said Public Road, 75 feet to the point of BEGINNING, being the same lot conveyed by W.C. Roberts and wife Lessie C. Roberts, to J.W. Brown and wife, Helen Brown by deed dated 24th day of June, 1957.

The property hereinabove described was acquired by Grantor by instrument recorded in Book 16799, Page 660; and Book 16965, Page 935, Wake County Registry.

KC: 447697v1

1

BK018732PG01015

A map showing the above described property is recorded in Plat Book	, Page, Wake County Registry.
TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privilege fee simple.	es and appurtenances thereto belonging to the Grantee in
And the Grantor covenants with the Grantee, that Grantor is seized of the pren simple, that title is marketable and free and clear of all encumbrances, and the lawful claims of all persons whomsoever, other than the following exception	hat Grantor will warrant and defend the title against the
 2021 ad valorem taxes; Zoning ordinances affecting the property; and Utility easements and unviolated covenants, conditions or restriction 	ns that do not materially affect the value of the property
IN WITNESS WHEREOF, the Grantor has duly executed the foregoing as o	of the day and year first above written.
Kashina Jones (SEAL)	
Ivory Moore (SEAL)	
State of North Carolina - County of Wake I, the undersigned Notary Public of the County of Wake personally appeared before me this day, acknowledging to me that (s)he sign Moore	and State aforesaid, certify that the following persons n the foregoing document: Kashina Jones and Ivory
Witness my hand and Notarial stamp or seal this <u>30</u> day of Septe	ember, 2021.
My Commission Expires: 8/27/23	Jacket E. Morris
(Affix Seal)	Notary's Printed or Typed Name
RACHEL E. MORRIS Notary Public, North Carolina Wake County My Commission Expires August 27, 2023	

Annexation Area

All that certain real property situated in the Town of Rolesville, Wake Forest Township, Wake County, North Carolina, described as follows:

Beginning at a found iron pipe on the western right of way line of Long Melford Drive at the northern terminus of said drive as depicted on that certain plat entitled "Subdivision Plat, Cedar Ridge Subdivision, Phase II A, Property of Cedar Lakes II LLC" and recorded in Book of Maps 2015, Page 350, Wake County Registry, said point also being the northeastern corner of New Lot 112 as said lot is shown and so designated on that certain plat entitled "Recombination Survey for Lot 112, Cedar Ridge Subdivision" and recorded in Book of Maps 2017, Page 107, Wake County Registry; thence from the point of beginning, along the northern boundary of said New Lot 112, North 85°23'01" West 193.22 feet to a found iron pipe at the northwestern corner thereof and the eastern boundary of that certain plat entitled "Plat of Revision, The Village at Rolesville, Phase I, Tract 2" recorded in Book of Maps 2004, Pages 202 to 203, Wake County Registry; thence along the eastern boundary of said Plat of Revision the following two courses: (1) North 09°54'53" East 301.83 feet to a set iron rod; and (2) North 13°03'43" East 28.84 feet to a found iron rod with cap at the southeastern corner of that certain parcel conveyed to Rolesville Development, LLC in Deed Book 9243, Page 1196, Wake County Registry; thence along the eastern boundary of said Rolesville Development parcel North 13°03'43" East 880.00 feet to a found iron rod at the southeastern corner of that certain parcel conveyed to The Town of Rolesville in Deed Book 5134, Page 618, Wake County Registry; thence along the eastern boundary of said Town of Rolesville parcel the following four courses: (1) North 13°04'55" East 392.55 feet to a set iron rod; (2) North 20°04'58" East 450.00 feet to a set iron rod; (3) North 29°20'00" East 154.00 feet to a set iron rod; and (4) North 06°05'01" West 76.80 feet to a found iron pipe in the southern boundary of Lot 1 as said lot is shown and so designated on that certain plat entitled "Boundary Survey Prepared for Wake County Board of Education, Rolesville Elementary School" and recorded in Book of Maps 2003, Page 557, Wake County Registry; thence along the southern boundary of said Lot 1, North 88°27'43" East 312.89 feet to the northwestern corner of that certain parcel conveyed to June Albert Jones and wife in Deed Book 1613 Page 481, Wake County Registry; thence along the western and southern boundary of said Jones parcel the following two courses: (1) South 13°43'06" West 67.79 feet to a point; and (2) North 82°18'06" East 99.70 feet to the southwestern corner of that certain parcel conveyed to Michael T. Debnam in Deed Book 11563, Page 1757, Wake County Registry; thence along the southern boundary of said Debnam parcel North 70°56'31" East 119.04 feet (record South 84°35' East 99 feet) to a set iron rod at the most southern corner of that certain parcel conveyed to Richard E. Dunn et al. in Deed Book 9721, Page 2124, Wake County Registry; thence along the southeastern boundary of said Dunn parcel North 58°08'06" East 9.77 feet to a set iron rod at the most western corner of the second parcel described in the conveyance to Albert Emery Burke and wife in Deed Book 15944, Page 1564, Wake County Registry; thence along the southwestern and southeastern boundaries of said Burke parcel the following two courses: (1) South 31°51'54" East 99.92 feet to a found iron pipe; and (2) North 58°08'06" East 150.23 feet to a set iron rod; thence along the northeastern boundary of the two parcels described in said Burke conveyance North 31°51'54" West 199.92 feet to a found axle in the southeastern boundary of that certain parcel conveyed to Spencer Pulley and wife in Deed Book 1112, Page 65, Wake County Registry; thence along the southeastern boundary of said Pulley parcel North 57°22'51" East 159.15 feet to a set iron rod at the most western corner of Tract 3 as said tract is described in that certain

conveyance to The Town of Rolesville in Deed Book 18568, Page 660, Wake County Registry; thence along the southwestern boundary of said Tract 3, South 30°55'22" East 450.34 feet to the most western corner of that certain parcel conveyed to C. Douglas Young et al. in Deed Book 9301, Page 1320, Wake County Registry; thence along the southwestern boundary of said Young parcel South 30°55'22" East 1045.91 feet to a set iron rod on the northwestern boundary of that certain 4.874 acre parcel depicted on a plat entitled "Cedar Lakes Boundary Survey, 526 Irina Dr" and recorded in Book of Maps 2019, Page 1539, Wake County Registry (said parcel being part of the phased Cedar Ridge development); thence along the northwestern boundary of the complete Cedar Ridge development recorded in Book of Maps 2019, Page 1539, Book of Maps 2015, Pages 116 and 117, Book of Maps 2016, Page 1977, Book of Maps 2017, Pages 678 to 680, and Book of Maps 2015, Page 899, Wake County Registry, South 57°44'11" West 2210.88 feet to the point of beginning, containing 59.904 acres, more or less.

LESS AND EXCEPT the triangular area encompassed within tax PIN # 1768091558, containing approximately 0.151 acres and lying within the existing Rolesville corporate limits.



Case: MA 22-03 Parker Ridge

Address: 82 School St., 0 School St., 201 Redford Place Dr., 120 School St.

PIN 1758988411; 1768091558; 1758884270; 1758983710

Date: 04.18.2022



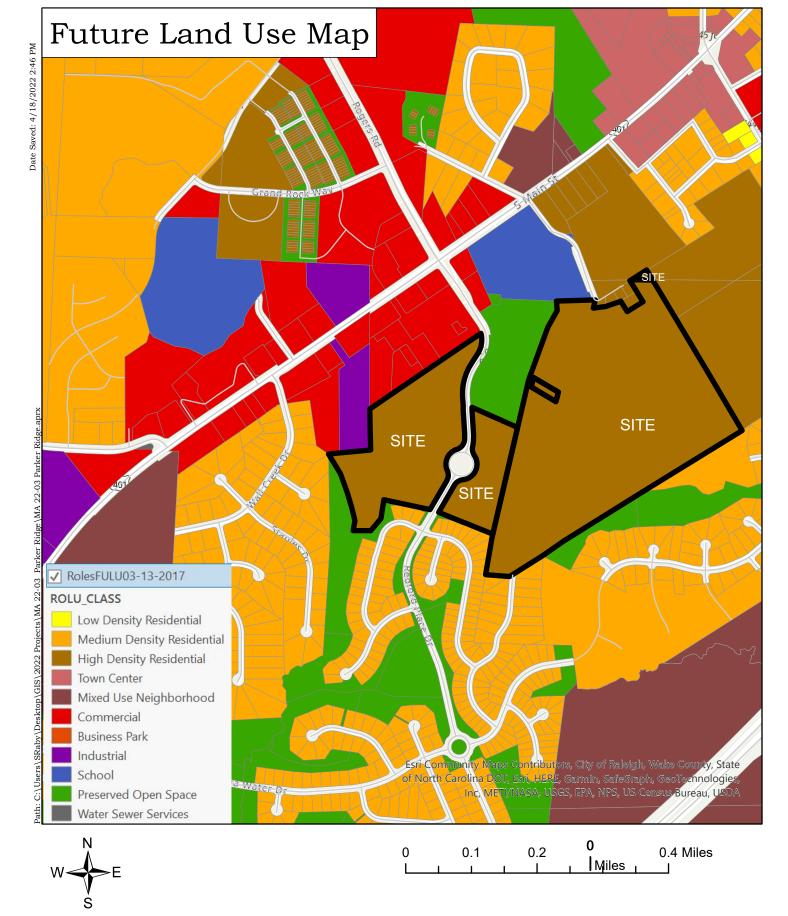


Case: MA 22-03 Parker Ridge

Address: 82 School St., 0 School St., 201 Redford Place Dr., 120 School St.

PIN 1758988411; 1768091558; 1758884270; 1758983710

Date: 04.18.2022



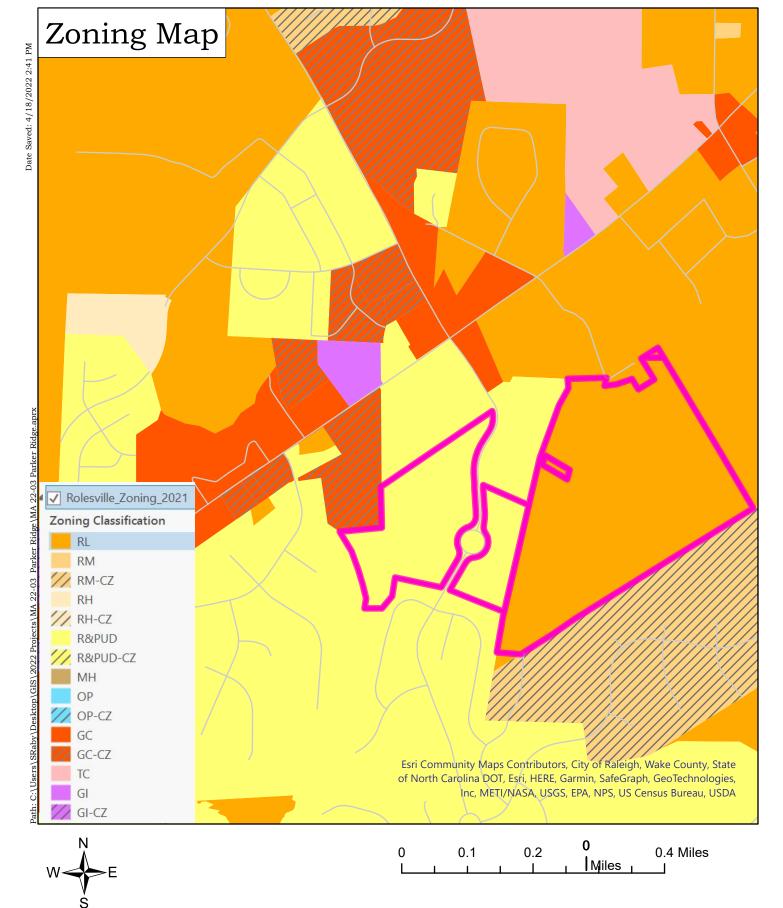


Case: MA 22-03 Parker Ridge

Address: 82 School St., 0 School St., 201 Redford Place Dr., 120 School St.

PIN 1758988411; 1768091558; 1758884270; 1758983710

Date: 04.18.2022



PARKER RIDGE NEIGHBORHOOD MEETING MINUTES

Parker Ridge

August 10, 2022 Neighborhood Meeting Minutes

The Applicant held a neighborhood meeting for the Parker Ridge rezoning at the Town of Rolesville Community Center on August 10th, 2022. The following members of the project team were in attendance to present and answer questions: Charlie Yokley from Lennar, Michael Taylor from Lennar, Kelly Race from BGE, and Collier Marsh from Parker Poe. Approximately 15 neighbors were in attendance. Collier Marsh began by introducing the project team, gave an overview of the rezoning process, and then described the proposed rezoning. The floor was then opened to questions from the attending neighbors. The following is a summary of the questions asked by neighbors and the applicant's responses.

Question: What is the timeframe for development.

Applicant Response: There are several steps to go in the process. We are currently in the rezoning process, which is followed by the site plan process. We are targeting early 2024 for the start of construction.

Question: How tall will the Townhomes be?

Applicant Response: Two stories.

Question: What is the project's open space?

Applicant Response: Open space includes all of the open land outside of individual lots and street rights of way. In this project, the open space includes environmentally sensitive areas, greenways, buffers, and other open areas.

Question: Will there be buffers provided at the perimeter of the development adjacent to Villages of Rolesville?

Applicant Response: Yes, we are proposing buffers along our perimeter. Along the Villages of Rolesville Boundary, we are proposing a 25' Type 3 perimeter buffer.

Question: How does the project address traffic in the area?

Applicant Response: The Town has completed its Traffic Impact Analysis and did not recommend any offsite traffic improvements. We have engaged our own traffic engineer to review the Town's Traffic Impact Analysis.

PARKER RIDGE NEIGHBORHOOD MEETING MINUTES

Question: Have you evaluated the School Street access and backups related to student drop offs?

Applicant Response: Yes, we are working with Wake County Schools to see what can be done.

Question: Where will construction traffic go?

Applicant Response: Construction traffic will be directed to use main roads where possible and avoid neighborhood streets. Lennar has onsite construction managers to ensure rules are followed.

Question: Will the project require blasting? What procedures are followed?

Applicant Response: We do expect some blasting due to existing rock. There are extensive requirements for blasting, including permitting and notice requirements that must be followed.

Question: What will happen to environmentally sensitive areas?

Applicant Response: Environmentally sensitive areas are being preserved and, where possible, activated with greenway trails for the public to enjoy.

Question: Will greenways run through neighboring properties?

Applicant Response: No. The greenways we are proposing are entirely on our property and have been coordinated with the Town.

Question: Can fences be added in buffers?

Applicant Response: We can look into adding fences where they are not already being provided.

After the question and answer session, the applicant team had informal discussions with several neighbors and the meeting concluded at 7:30 pm

PRELIMINARY PLAN FOR

PARKER RIDGE

82 SCHOOL STREET ROLESVILLE, NORTH CAROLINA 27571

SITE DATA TA	ABLE	
OWNER	W. HARLOD PA	RKER JR. /
	ROELSVILLE DEVEL	OPMENT, LLC
DEVELOPED	LENINAR OF CAROLIN	140 110
DEVELOPER	LENNAR OF CAROLIN	NAS, LLC
PIN#	AREA (AC)	AREA (SF)
1758988411	59.51	2,592,300
1758983710	0.39	17,121
1758884270 E	7.12	310,215
1758884270 W	19.86	865,243
GROSS AREA	86.89	3,784,879
PARCEL A - PARK EXPANSION AREA	1.50	65,340
NET AREA	85.39	3,719,539
EXISTING ZONING	RL	
EXISTING USE	VACANT/AG	
FUTURE LAND USE	HDR	
PROPOSED ZONING	RH/RM CLUSTER	
PROPOSED USE	RESIDENTIAL	
SETBACKS MINIMUM		
RM (CLUSTER) SINGLE-FAMILY DETACHED)		
FRONT	20'	
SIDE	5'	
CORNER SIDE	10'	
REAR	20'	
MIN FRONT LOT WIDTH	40'	
MIN AREA	5000 SF	
	AREA (SF)	AREA (AC)
RM-CZ CLUSTER (SINGLE-FAMILY DETACHED)		,
FINAL TRACT AREA	936,667	21.50
TOTAL UNITS	160	
PROPOSED DENSITY (DU/AC)	7.4	
MAXIMUM DENSITY (DU/AC)	5	
PUBLIC GREENWAY (EST. 30' ESTM WIDTH)	150,754	3.46
CLUSTER OPEN SPACE REQUIRED 40%	374,667	8.60
PROVIDED OPEN SPACE	374,667	23.16
RH-CZ (TOWNHOMES)		
FRONT	15'	
PARKING SETBACK FOR TOWNHOMES	18'	
BUILDING SEPARATION	30'	
SIDE	10'	
CORNER SIDE	15'	
REAR	15'	
MIN FRONT LOT WIDTH	20'	
RH-CZ (TOWNHOMES) - FRONT LOADED	AREA (SF)	AREA (AC)
FINAL TRACT AREA	184,665	4.24
TOTAL UNITS	65	
	4.14	
PROPOSED DENSITY (DU/AC)	1	
PROPOSED DENSITY (DU/AC) MAXIMUM DENSITY (DU/AC)	9	
MAXIMUM DENSITY (DU/AC)		ΔREA (ΛC)
MAXIMUM DENSITY (DU/AC) RH-CZ (TOWNHOMES) - REAR LOADED	AREA (SF)	AREA (AC)
MAXIMUM DENSITY (DU/AC) RH-CZ (TOWNHOMES) - REAR LOADED FINAL TRACT AREA	AREA (SF) 145,059	AREA (AC) 3.33
MAXIMUM DENSITY (DU/AC) RH-CZ (TOWNHOMES) - REAR LOADED	AREA (SF)	

MAXIMUM DENSITY (DU/AC)

CONTACT: CHARLIE YOKLEY, AICP

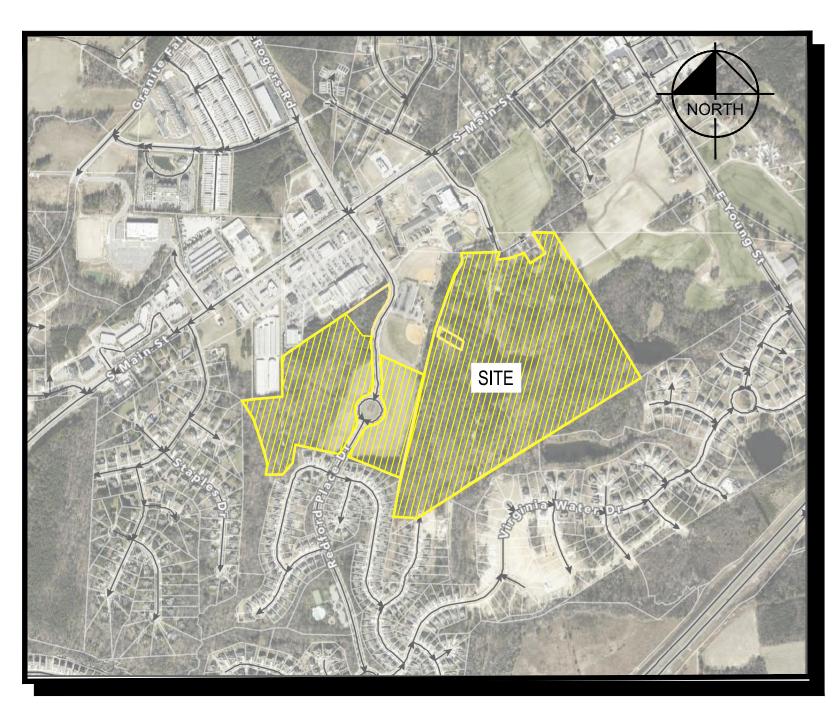
OPEN SPACE

RM ZONING DISTRICT (SINGLE-FAMILY DETACHED) REQUIRED ACTIVE OPEN SPACE (50%) - 126,084 (2.89 AC) REQUIRED PASSIVE OPEN SPACE - 126,084 SF (2.89 AC)

MINIMUM REQUIRED OPEN SPACE (15%) - 179,677 SF (4.12 AC) REQUIRED ACTIVE OPEN SPACE (50%) - 89,838 SF (2.06 AC) REQUIRED PASSIVE OPEN SPACE - 89,838 SF (2.06 AC)

ACTIVE OPEN SPACE - 215,922 SF (4.95 AC) PASSIVE OPEN SPACE - 215,922 SF (4.95 AC)

*NOTE: PASSIVE OPEN SPACE INCLUDES ALL LAND OUTSIDE OF LOTS AND ROADS OTHER THAN ACTIVE OPEN SPACE



SITE LOCATION MAP NOT TO SCALE

SHEET LIST TABLE		
SHEET NUMBER	SHEET TITLE	
C0-0	COVER SHEET	
C3-0	OVERALL SITE PLAN	
C3-1	ENLARGED SITE PLAN (1 OF 2)	
C3-2	ENLARGED SITE PLAN (2 OF 2)	

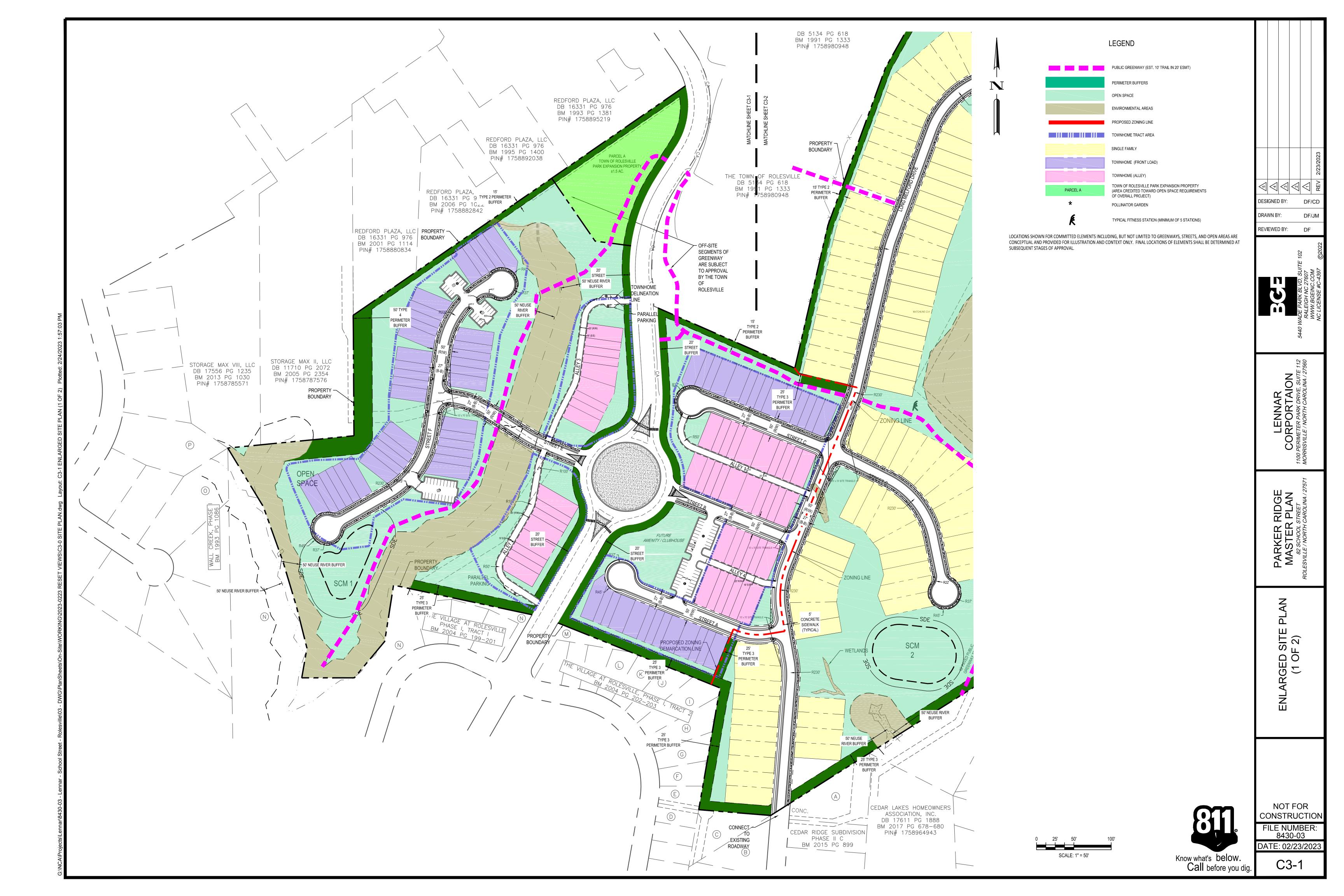
PROJECT OWNER AND CONSULTANT INFORMATION ENGINEER: SURVEYOR: DEVELOPER: BGE, INC BATEMAN CIVIL SURVEY COMPANY THROUGH THE SPAULDING GROUP LENNAR CORPORATION 5400 WADE PARK BOULEVARD 1100 PERIMETER PARK DRIVE, SUITE 112 2524 RELIANCE AVENUE RALEIGH, NORTH CAROLINA 27607 MORRISVILLE, NC 27560 APEX, NORTH CAROLINA 27539 (919) 236-3052 (919) 276-0111 (919) 577-1080 EXT. 115 CONTACT: DEBRA FERM, P.E.

CONTACT: STEVEN CARSON



C0-0





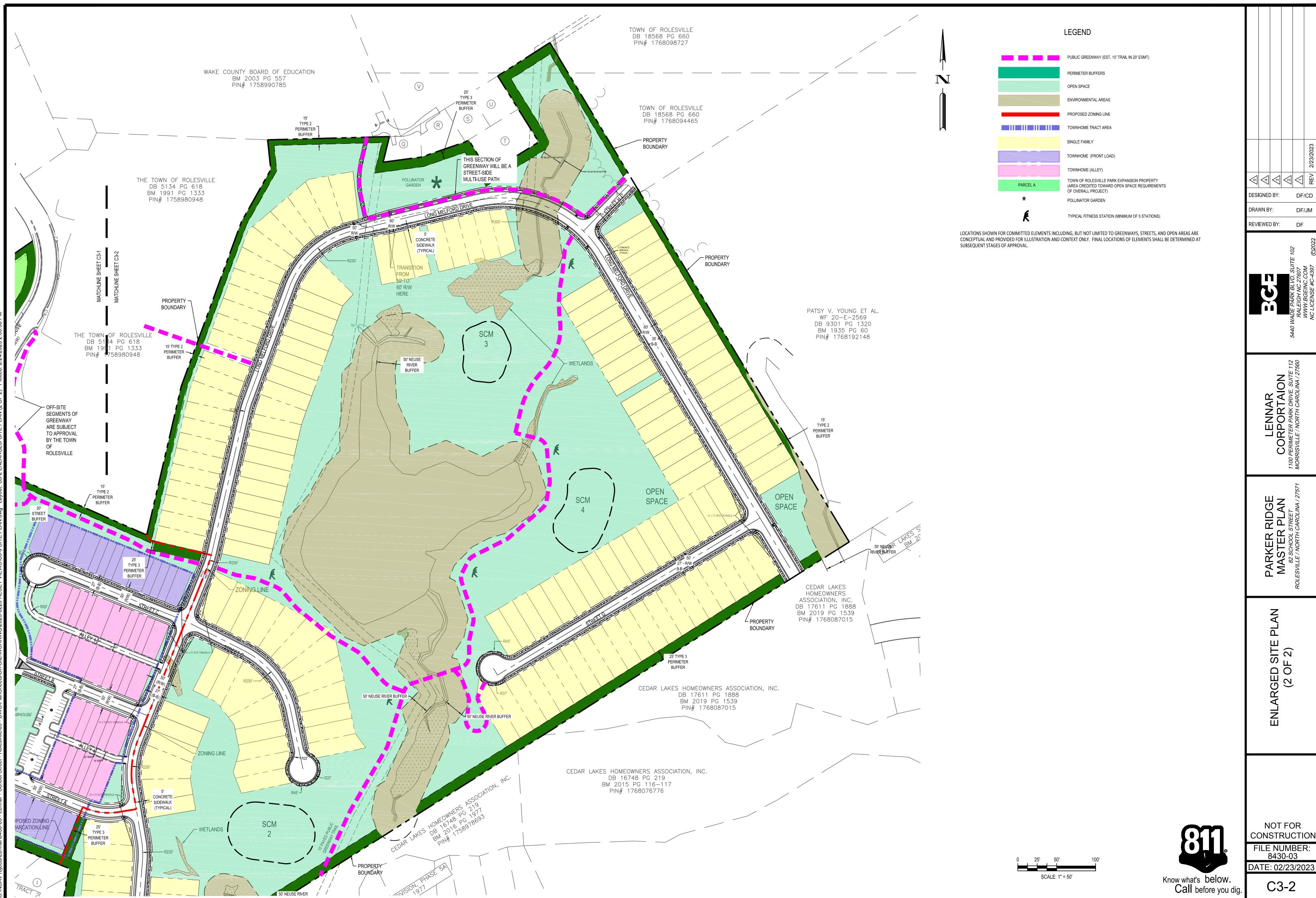


EXHIBIT D

to Parker Ridge Rezoning Application Proposed Conditions Rev. 5 – February 24, 2023

- 1. Development of the property shall be in substantial conformance with the accompanying **Exhibit C** Concept Plan. Locations shown for committed elements including, but not limited to greenways, streets, and open areas shown on **Exhibit C**, are conceptual and provided for illustration and context only. Final locations of elements shall be determined at subsequent stages of approval. Developer shall be entitled to a credit against the Project's Parks and Recreation Fees for the costs to construct public greenways.
- 2. The following uses shall be prohibited on the portion of the property zoned Residential High Density (the "RH Parcel"):
 - a. Live-Work Unit
 - b. Residential Care (ALF, ILF, CCF)
 - c. Telecommunications Tower
- 3. The RH Parcel shall have a maximum of 120 townhouse dwellings.
- 4. The following uses shall be prohibited on the portion of the property zoned Residential Medium Density (the "RM Parcel"):
 - a. Telecommunications Tower
- 5. The RM Parcel shall have a maximum of 170 single-family detached dwellings.
- 6. A single family detached home shall be developed and donated as part of Wounded Warrior Homes, Operation Coming Home, Operation Finally Home, or similar organization providing homes to veterans. Developer shall be entitled to a waiver of all Town of Rolesville permit fees for this home.
- 7. The development shall include at least one pollinator garden. The pollinator garden shall be a landscaped garden in which at least seventy five percent (75%) of all plants, excluding grasses, are native milkweeds and other nectar-rich flowers.
- 8. Perimeter buffers shall be provided as shown on the Concept plan. Type 3 and Type 4 perimeter buffers may include 6' fences instead of walls.
- 9. All single family detached dwellings shall have the following features:
 - a. A 2 car garage;
 - b. All garage doors shall have windows;
 - c. Ground floor elevation at the front door shall be a minimum of 12" above average grade across the front façade of the house.

- d. A minimum 24" stone or masonry water table along the front elevation;
- e. If masonry is not the predominant first floor finish, then the front elevation shall have 2 types of siding. For example, horizontal siding may be combined with shake/board and batten;
- f. Roof pitches on the main roof will have a pitch between 5 on 12 and 12 on 12;
- g. Roof materials shall be asphalt shingles, metal, copper or wood;
- h. Minimum 12" front overhangs;
- i. A covered stoop or porch at least 20 sf and 5 ft deep;
- j. All windows on front facades shall have shutters or window trim;
- k. A minimum 64 sf rear patio;
- 1. At least one window on each side elevation;
- m. No single family detached home shall be constructed with a front elevation or color palette that is identical to the home on either side of it or directly across from it; and
- n. A varied color palette shall be used throughout the subdivision.
- 10. All townhouse dwellings shall have the following features:
 - a. A 1 or 2 car garage;
 - b. A minimum 24" stone or masonry water table along the front elevation;
 - c. If masonry is not the predominant first floor finish, then the front elevation shall have 2 types of siding. For example, horizontal siding may be combined with shake/board and batten;
 - d. Roof materials shall be asphalt shingles, metal, copper or wood;
 - e. Minimum 12" front overhangs;
 - f. A covered stoop or porch at least 20 sf and 5 ft deep;
 - g. Shutters or window trim shall be on front façade windows;
 - h. A minimum 64 sf rear patio shall be provided on front loaded townhouses;
 - i. At least one window on each side elevation (excluding interior units);
 - j. No townhouse shall be painted a color that is identical to the home adjacent on either side of it; and

PPAB 8646265v1 2

- k. A varied color palette shall be used throughout the subdivision.
- 11. The developer shall offer to dedicate the section of land labeled as "Parcel A Town of Rolesville Park Expansion" on the Concept Plan for use as a public park. This land shall count toward open space requirements for the overall development.
- 12. The Project shall have a public greenway stubbed to the 307 S. Main Street property line near "Access C" as shown on the "Parker Ridge Traffic Impact Analysis" prepared by Stantec Consulting Services, Inc., dated February 2, 2023 (the "TIA"). Notwithstanding the foregoing, the Project shall not have a public street access to School Street.
- 13. Developer shall design and construct: (1) the public collector street identified as Access D in the TIA that extends the street network within the development through Wake County PIN 1768-09-8727 (the "Campus Site") to E Young Street ("Access D Route"); and (2) a northbound left turn lane with 75 feet of full-width storage and appropriate taper from Young Street to Access D as recommended by the TIA ("Turn Lane") (Access D Route and Turn Lane are collectively referred to as the "Young Street Connection"). The Young Street Connection shall be designed and constructed to Town of Rolesville and NCDOT standards and Access D shall be located in substantial conformance with the corridor shown in the attached **Exhibit E**. The street section for Access D shall be constructed as shown in the attached Exhibit F. Developer shall be responsible for all costs to design and construct the Young Street Connection (the "Costs") and Developer shall be entitled to a credit against the Project's Transportation Impact Fees for the Costs. Construction of the Young Street Connection shall commence prior to issuance of the 105th Certificate of Occupancy for the Project and shall be complete not later than issuance of the 138th Certificate of Occupancy for the Project.

While it is anticipated that this condition will be clarified by a formal development agreement, reimbursement agreement, or other written agreement between the Developer and the Town, the absence of such a subsequent written agreement shall not be deemed to invalidate this condition.

This condition is subject to the following caveats:

- In the event the Campus Site, an approved alignment within the **Exhibit E** corridor, or necessary rights-of-way, easements, or other property rights are made unavailable to the Project, this condition shall be deemed extinguished.
- In the event the Town commences design and/or development of any part of the Young Street Connection, the Developer's obligations for design and/or development, as appropriate, for those portions of the Young Street Connection shall be deemed extinguished. For purposes of clarity, Developer shall remain entitled to a credit against the Project's Transportation Impact Fees for remaining Costs.

"Project" shall mean "Parker Ridge" as described by MA 22-03 and ANX 22-06.

"Developer" shall mean Lennar Carolinas LLC, and its successors and assigns.

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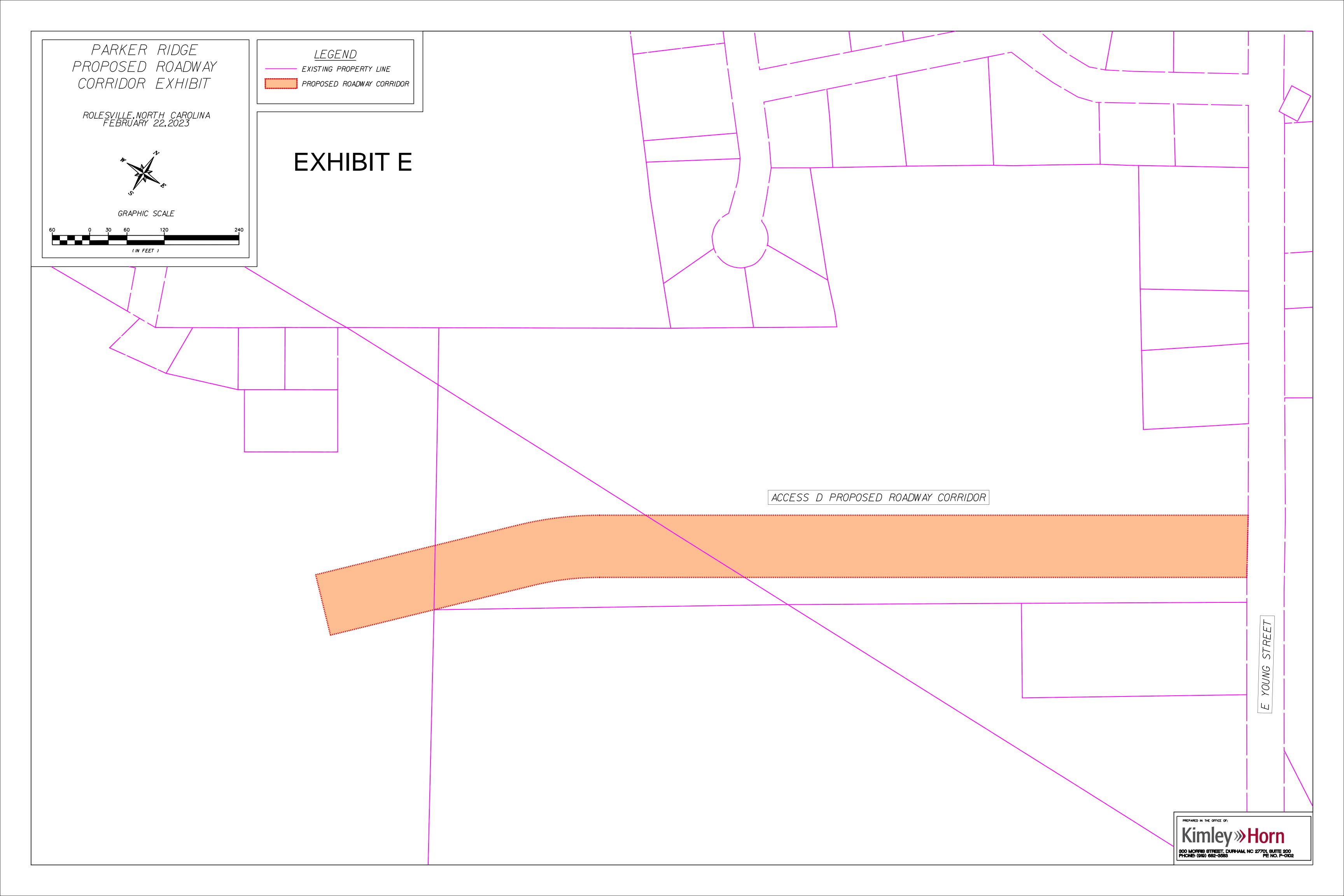
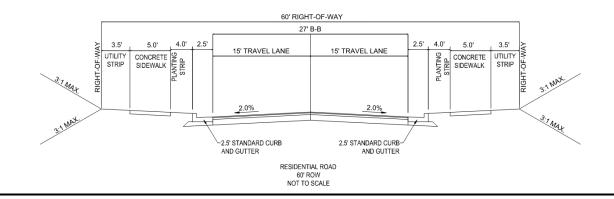


Exhibit F





Parker Ridge Traffic Impact Analysis

Rolesville, North Carolina

February 2, 2023

Prepared for:

Town of Rolesville 502 Southtown Circle Rolesville, NC 27571

Applicant:

Lennar Carolinas LLC 301 Fayetteville Street Raleigh, NC 27601

Prepared by:

Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606

Sign-off Sheet

This document entitled Parker Ridge Traffic Impact Analysis was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of Town of Rolesville (the "Client"). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

Prepared by ___

(signature)

Pierre Tong

Pierre Tong, PE

Reviewed by

(signature)

Jeff Weller, PE

Approved by _

(signature)

Matt Peach, PE, PTOE

THERRE TO THE TOTAL TOTA

2/2/2023

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Executive Summary

The proposed Parker Ridge development is located on both sides of Redford Place Drive south of US 401 Business (South Main Street) in Rolesville, NC. Currently, the 86.76-acre site is expected to be a residential development consisting of single-family homes as well as townhomes. The current zoning is a mix of residential low density and residential/planned unit development (R&PUD). The applicant is pursuing a rezoning to Residential Medium Density (RM) and Residential High Density (RH).

The proposed development is planned to consist of 162 single-family homes and 114 townhomes with an anticipated completion date in 2028. Using the Institute of Transportation Engineers (ITE) Trip Generation Manual, it is estimated that at full build-out the development is expected to generate 2,391 new trips per average weekday. In the AM and PM peak hours, the development is expected to generate 170 AM peak hour trips (47 entering and 123 exiting) and 220 PM peak hour trips (134 entering and 86 exiting). Access to the site is envisioned to be provided via four driveways as follows:

- Access A will add a western leg to the existing roundabout on Redford Place Drive
- Access B will add an eastern leg to the existing roundabout on Redford Place Drive
- Access C will be provided via an extension of School Street
- Access D will consist of a connection out to Young Street to the east

There is a possibility for Access C to be removed from the development plan, therefore, this study is performed with and without the extension of School Street.

The purpose of this report is to evaluate the proposed development in terms of traffic conditions, evaluate the ability of the adjacent roadways to accommodate the additional traffic volumes, and recommend transportation improvements needed to mitigate congestion that may result from the additional site traffic. This report presents trip generation, trip distribution, traffic analysis, and recommendations for transportation improvements needed to meet anticipated traffic demands.

This report examines the following scenarios for the AM and PM peak hours:

- 2022 Existing
- 2028 No-Build
- 2028 Build with Access C
- 2028 Build Improved with Access C
- 2028 Build without Access C
- 2028 Build Improved without Access C

Capacity analysis for the AM and PM peak hours in each scenario was performed for the following existing intersections:

- SR 2226 (Jonesville Road) at Prides Crossing
- US 401 Business (South Main Street) at SR 2051 (Burlington Mills Road)
- Old Rogers Road/School Street at US 401 Business (South Main Street)
- Redford Place Drive/SR 2052 (Rogers Road) at US 401 Business (South Main Street)
- School Street at School Driveway/Scarboro Driveway



- Redford Place Drive at School Driveway
- US 401 at SR 1003 (Young Street)

The study will also include the following planned (i.e., future) intersections:

- US 401 Business (South Main Street) at SR 2051 (Realigned Burlington Mills Road)
- US 401 Business (South Main Street) at Virginia Water Drive Extension

The results of the capacity analysis at these existing and planned intersections, in addition to the aforementioned driveways, are summarized in Tables ES-1 and ES-2:

Table ES-1: Level of Service Summary Table with Access C

Level of Service (Delay, sec/veh)		2022 Existing		2028 No-Build		2028 Build		2028 Build Improved	
	AM	PM	AM	PM	AM	PM	AM	PM	
Jonesville Road at Prides Crossing	B (10.3)	B (11.1)	B (11.9)	B (13.4)	B (12.0)	B (13.7)	B (12.0)	B (13.7)	
South Main Street at Virginia Water Drive Extension			C (29.8)	D (46.3)	C (30.2)	D (46.9)	C (30.2)	D (46.9)	
South Main Street at Realigned Burlington Mills Road	1	-	D (50.0)	D (43.4)	D (48.9)	D (43.7)	D (48.9)	D (43.7)	
South Main Street at Burlington Mills Road	C (22.2)	B (18.0)	C (21.9)	C (20.1)	C (22.1)	C (20.2)	C (22.1)	C (20.2)	
Redford Place Drive/Rogers Road at South Main Street	C (26.7)	C (27.0)	E (62.5)	E (73.3)	E (64.0)	E (73.8)	E (64.0)	E (73.8)	
Old Rogers Road/School Street at South Main Street	C (22.5)	D (28.7)	F (158.5)	F (##)	F (145.6)	F (##)	F (145.6)	F (##)	
School Street at School Driveway/Scarboro Driveway/Access C			A (8.9)	A (8.6)	A (8.9)	A (8.6)	A (8.9)	A (8.6)	
Redford Place Drive at School Driveway	B (10.5)	A (9.7)	B (11.6)	B (10.6)	B (11.9)	B (10.8)	B (11.9)	B (10.8)	
Redford Place Drive at Access A/Access B	-		1		A (3.8)	A (4.2)	A (3.8)	A (4.2)	
Young Street at Access D	1	1	1		B (14.7)	C (21.3)	B (14.7)	C (20.7)	
US 401 at Young Street (North)	A (8.0)	A (9.9)	A (9.0)	B (10.5)	B (10.2)	B (10.9)	B (10.2)	B (10.9)	
US 401 at Young Street (South)	A (9.1)	A (8.1)	B (17.6)	D (44.2)	B (18.0)	D (46.4)	B (18.0)	D (46.4)	
US 401 Eastern U-Turn	A (2.8)	B (11.8)	A (2.7)	A (3.3)	A (2.7)	A (3.6)	A (2.7)	A (3.6)	
US 401 Western U-Turn	A (2.0)	A (4.2)	A (2.3)	A (2.9)	A (2.3)	A (3.0)	A (2.3)	A (3.0)	

	Signalized Intersection
	Stop Controlled Intersection
	Roundabout
-	Intersection Not Analyzed In Scenario
##	Delay Exceeds 300 Seconds

Table ES-2: Level of Service Summary Table without Access C

Level of Service (Delay, sec/veh)		2022 Existing		2028 No-Build		2028 Build		2028 Build Improved	
		PM	AM	PM	AM	PM	AM	PM	
Jonesville Road at Prides Crossing	B (10.3)	B (11.1)	B (11.9)	B (13.4)	B (12.0)	B (13.7)	B (12.0)	B (13.7)	
South Main Street at Virginia Water Drive Extension			C (29.8)	D (46.3)	C (30.2)	D (46.9)	C (30.2)	D (46.9)	
South Main Street at Realigned Burlington Mills Road	-	-	D (50.0)	D (43.4)	D (48.9)	D (43.7)	D (48.9)	D (43.7)	
South Main Street at Burlington Mills Road	C (22.2)	B (18.0)	C (21.9)	C (20.1)	C (22.1)	C (20.2)	C (22.1)	C (20.2)	
Redford Place Drive/Rogers Road at South Main Street	C (26.7)	C (27.0)	E (62.5)	E (73.3)	E (64.0)	E (73.8)	E (64.0)	E (73.8)	
Old Rogers Road/School Street at South Main Street	C (22.5)	D (28.7)	F (158.5)	F (##)	F (177.9)	F (##)	F (177.9)	F (##)	
School Street at School Driveway/Scarboro Driveway/Access C	-		A (8.9)	A (8.6)	A (8.9)	A (8.6)	A (8.9)	A (8.6)	
Redford Place Drive at School Driveway	B (10.5)	A (9.7)	B (11.6)	B (10.6)	B (11.9)	B (10.8)	B (11.9)	B (10.8)	
Redford Place Drive at Access A/Access B			-		A (3.8)	A (4.2)	A (3.8)	A (4.2)	
Young Street at Access D	-	-	-		C (15.7)	C (24.0)	C (15.6)	C (23.4)	
US 401 at Young Street (North)	A (8.0)	A (9.9)	A (9.0)	B (10.5)	B (10.2)	B (10.9)	B (10.2)	B (10.9)	
US 401 at Young Street (South)	A (9.1)	A (8.1)	B (17.6)	D (44.2)	B (18.0)	D (46.4)	B (18.0)	D (46.4)	
US 401 Eastern U-Turn	A (2.8)	B (11.8)	A (2.7)	A (3.3)	A (2.7)	A (3.6)	A (2.7)	A (3.6)	
US 401 Western U-Turn	A (2.0)	A (4.2)	A (2.3)	A (2.9)	A (2.3)	A (3.0)	A (2.3)	A (3.0)	

	Signalized Intersection Stop Controlled Intersection						
	Roundabout						
-	Intersection Not Analyzed In Scenario						
##	Delay Exceeds 300 Seconds						

The Town of Rolesville's Land Development Ordinance (LDO)⁷, Section 8.E, establishes the following Level of Service Standards:

- 1. The traffic impact analysis must demonstrate that the proposed development would not cause build-out-year, peak-hour levels of service on any arterial or collector road or intersection within the study area to fall below Level of Service (LOS) "D," as defined by the latest edition of the Highway Capacity Manual, or, where the existing level of service is already LOS "E" that the proposed development would not cause the LOS to fall to the next lower letter grade.
- If the road segment or intersection is already LOS "F," the traffic impact analysis must demonstrate
 that the proposed development, with any proposed improvements, would not cause build-out year
 peak-hour operation to degrade more than five (5) percent of the total delay on any intersection
 approach.

With the addition of traffic generated by the proposed development, the northbound School Street and southbound Old Rogers Road approach of the South Main Street at Old Rogers Road/School Street intersection increases in delay by greater than 5%. It is common for unsignalized side-street approaches to operate with high delays during peak periods. If high delays are experienced on the stop-controlled approaches, drivers may opt for alternative routes. Even so, the intersection was evaluated for potential improvements to meet the requirements of the Rolesville LDO:

- The installation of a traffic signal would improve the LOS of the side streets significantly. This, however, is
 not anticipated to be permitted by NCDOT due to the proximity of the intersection to the adjacent signalized
 intersection of South Main Street at Redford Place Drive/Rogers Road. In addition, the low traffic volumes
 on the side-street approaches of Old Rogers Road and School Street are not anticipated to meet the
 warrants for the installation of a traffic signal included in the Manual on Uniform Traffic Control Devices
 (MUTCD).
- The construction of dedicated left-turn turn lanes on Old Rogers Road and School Street reduces delay but
 does not mitigate the impact of the proposed development. This is attributed to low volumes of traffic on the
 side-street approaches and high through volumes on South Main Street. The installation of turn lanes may
 also impact adjacent property owners. As a result, the installation of turn lanes on Old Rogers Road and
 School Street is not recommended.
- Converting the southbound approach of Old Rogers Road to right-in/right-out access by installing channelization was shown to reduce delays on the side streets such that School Street is anticipated to operate at LOS C and Old Rogers Road is anticipated to operate at LOS D during the PM peak hour. This would require left turns from Old Rogers Road to be redirected to Rogers Road and use the traffic signal at the intersection of South Main Street at Redford Place Drive/Rogers Road; increasing travel time for existing vehicles on the Old Rogers Road approach. Furthermore, the restriction of access without the installation of a median has only limited effectiveness. As a result, the restriction of access is not recommended.

Therefore, no improvements are recommended at the South Main Street at Old Rogers Road/School Street intersection in conjunction with this development. Consideration should be made for limiting the southbound Old Rogers Road approach to right-in/right-out access in the future.



Based on the findings of this study, specific improvements have been identified and some should be completed as part of the proposed development. These improvements are valid for both scenarios with and without Access C.

Jonesville Road at Prides Crossing

• No improvements are recommended at this intersection

South Main Street at Realigned Burlington Mills Road

• No improvements are recommended at this intersection

Redford Place Drive/Rogers Road at South Main Street

• No improvements are recommended at this intersection

Old Rogers Road/School Street at South Main Street

No improvements are recommended at this intersection

School Street at School Driveway/Scarboro Driveway/Access C

- If Access C is constructed, the driveway should be constructed with one ingress lane and one egress lane with 100 feet of internal protective stem
- If Access C is not pursued, it is recommended that the connection be removed from the Town's Community Transportation Plan (CTP)

Redford Place at School Driveway

No improvements are recommended at this intersection

US 401 at Young Street

No improvements are recommended at this intersection

US 401 WB U-Turn

• No improvements are recommended at this intersection

US 401 EB U-Turn

No improvements are recommended at this intersection

South Main Street at Virginia Water Drive Extension

No improvements are recommended at this intersection



Redford Place Drive at Access A/Access B

 Construct Access A and Access B with one ingress lane and one egress lane at the existing roundabout along Redford Place Drive south of the School Driveway intersection. Both intersections should have a minimum internal protective stem of 100 feet

Young Street at Access D

It is recommended that Access D be constructed by others as a full-movement access point, with one ingress lane and one egress lane with 100 feet of internal protective stem. A northbound left turn lane should be provided in conjunction with construction of the access point with 75 feet of full-width storage and appropriate taper.

These recommendations are illustrated in Figure ES-1.



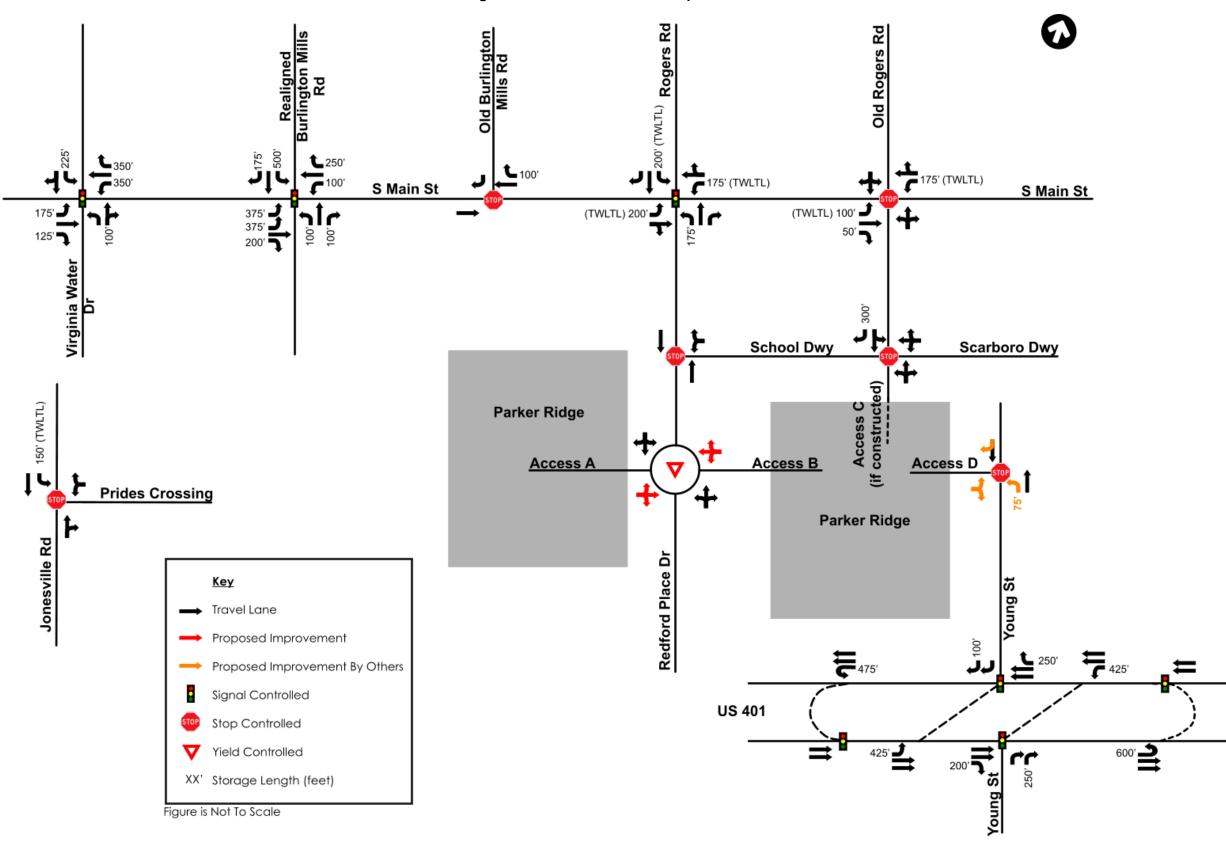


Figure ES-1: Recommended Improvements

Introduction February 2, 2023

1.0 INTRODUCTION

The proposed Parker Ridge development is located on both sides of Redford Place Drive south of US 401 Business (South Main Street) in Rolesville, NC. The current zoning is a mix of residential low density and residential/planned unit development (R&PUD). The applicant is pursuing a rezoning to Residential Medium Density (RM) and Residential High Density (RH). The 86.76-acre site is anticipated to be completed in 2028 and consists of 162 single-family homes and 114 townhomes. The project location is shown in Figure 1. The site plan, prepared by BGE, Inc., can be found in Figure 2.

The traffic analysis will consider future build conditions during the build-out year (2028). Access to the site is anticipated to be provided by up to four (4) driveways as follows:

- Access A will add a western leg to the existing roundabout on Redford Place Drive
- · Access B will add an eastern leg to the existing roundabout on Redford Place Drive
- Access C will connect to School Street
- Access D will create a new driveway onto Young Street

The traffic analysis was requested to be performed with and without Access C due to concerns that development traffic would interfere with Rolesville Elementary School pick-up and drop-off operations. Therefore, the analysis scenarios are as follows:

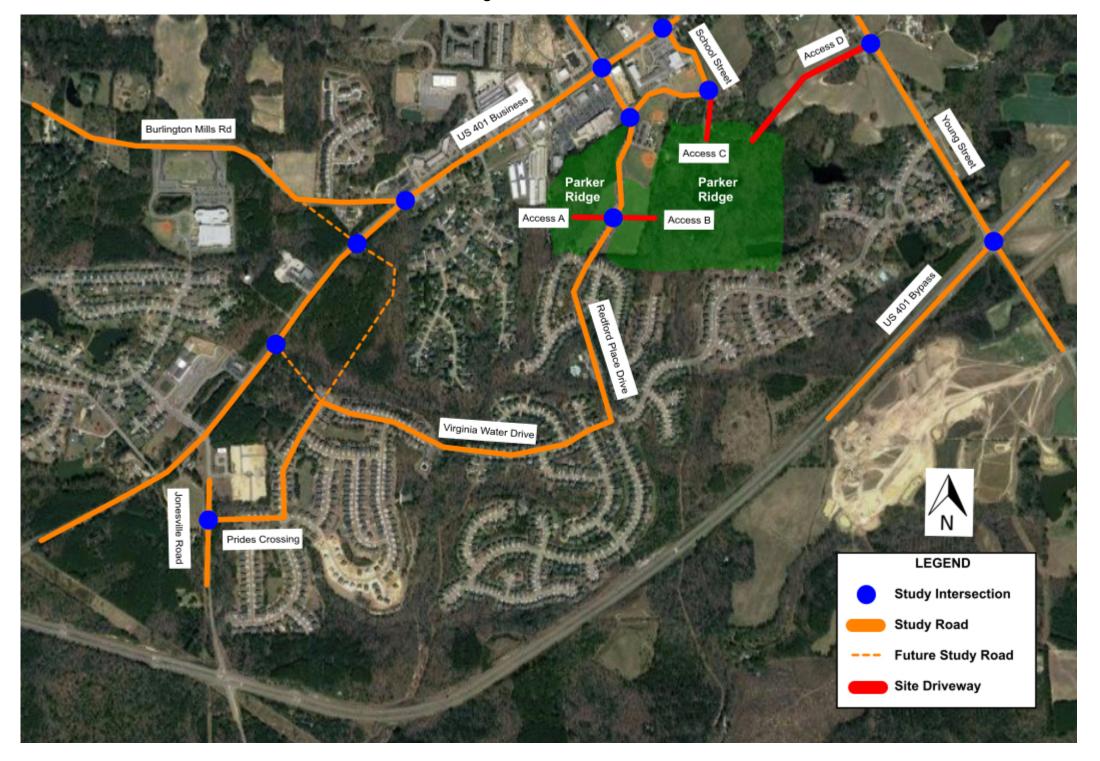
- 2022 Existing
- 2028 No-Build
- 2028 Build with Access C
- 2028 Build Improved with Access C
- 2028 Build without Access C
- 2028 Build Improved without Access C

The purpose of this report is to evaluate the development in terms of projected vehicular traffic conditions, evaluate the ability of the adjacent roadways to accommodate the additional traffic, and recommend transportation improvements needed to mitigate congestion that may result from additional site traffic. This report presents trip generation, trip distribution, traffic analyses, and recommendations for improvements needed to meet anticipated traffic demands. The analysis examines the AM and PM peak hours for the aforementioned analysis scenarios.



Introduction February 2, 2023

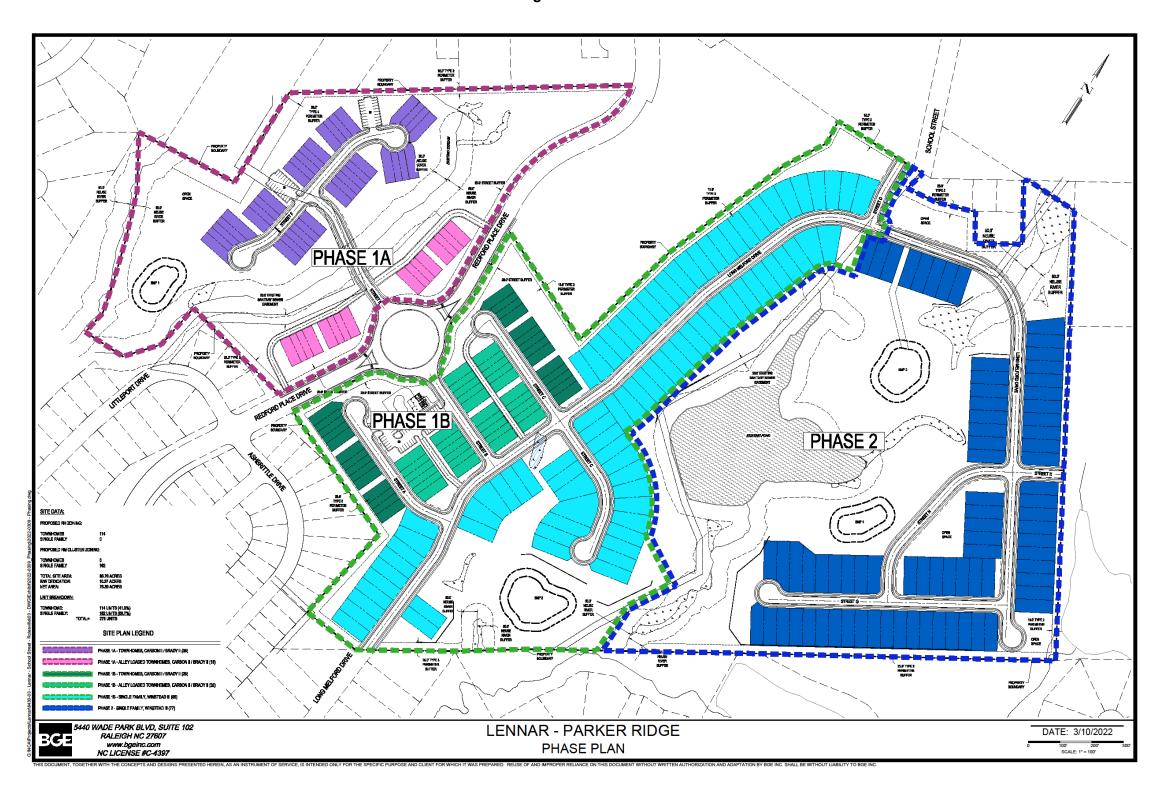
Figure 1: Site Location





Introduction February 2, 2023

Figure 2: Site Plan



Inventory of Traffic Conditions February 2, 2023

2.0 INVENTORY OF TRAFFIC CONDITIONS

2.1 STUDY AREA

Stantec coordinated with the Town of Rolesville, the applicant, and the North Carolina Department of Transportation (NCDOT) to determine the appropriate study area and assumptions. The following existing intersections were agreed upon to be analyzed to determine the impacts associated with this development. These intersections are shown in Figure 1.

- SR 2226 (Jonesville Road) at Prides Crossing
- US 401 Business (South Main Street) at SR 2051 (Burlington Mills Road)
- Redford Place Drive/SR 2052 (Rogers Road) at US 401 Business (South Main Street)
- Old Rogers Road/School Street at US 401 Business (South Main Street)
- School Street at School Driveway/Scarboro Driveway
- Redford Place Drive at School Driveway
- US 401 at SR 1003 (Young Street)
- US 401 at Young Street Westbound U-Turn
- US 401 at Young Street Eastbound U-Turn

2.2 PROPOSED ACCESS

Access to the site is envisioned to be provided by up to four access points:

- Access A will add a western leg to the existing roundabout on Redford Place Drive
- Access B will add an eastern leg to the existing roundabout on Redford Place Drive
- Access C will connect to School Street
- · Access D will create a new full-movement driveway onto Young Street

The location of Access D on Young Street is unknown at this time. The driveway is anticipated to be located south of Perry Street. This and the other proposed access points are shown in Figure 1.

The traffic analysis was requested to be performed with and without Access C due to concerns that development traffic would interfere with Rolesville Elementary School pick-up and drop-off operations.

2.3 EXISTING CONDITIONS

Table 1 provides a detailed description of the existing study area roadway network. All functional classification and average annual daily traffic (AADT) information were obtained from NCDOT.



Inventory of Traffic Conditions February 2, 2023

Table 1: Existing Conditions

Road Name	Road Number	Primary Cross- Section	Functional Classification ¹	AADT² (year)	Speed Limit (mph)	Maintenance Agency
Burlington Mills Road	SR 2051	Two-Lane Undivided	Major Collector	4,000 vpd (2021)	35	NCDOT
Jonesville Road	SR 2226	Two-Lane Undivided	Local Road	3,000 vpd (2016)	35	NCDOT
South Main Street	US 401 Business	Two-Lane w/ TWLTL*	Principal Arterial	13,500 vpd (2021)	35	NCDOT
Old Rogers Road	-	Two-Lane Undivided	Local Road	-	35	Town of Rolesville
Prides Crossing	-	Two-Lane Undivided	Local Road	-	25	Town of Rolesville
Redford Place Drive	-	Two-Lane Undivided	Local Road	-	25	Town of Rolesville
Rogers Road	SR 2052	Four-Lane w/TWLTL*	Major Collector	9,000 vpd (2019)	35	NCDOT
School Driveway	-	Two-Lane One-Way	Private Driveway	-	-	WCPSS
School Street	-	Two-Lane Undivided	Local Road	-	35	Town of Rolesville
US 401	US 401	Four-Lane Divided	Principal Arterial	15,500 vpd (2021)	55	NCDOT
Young Street	SR 1003	Two-Lane Undivided	Minor Arterial	7,200 vpd (2021)	35	NCDOT

^{*}TWLTL = Continuous Two-Way Left-Turn Lane

The existing lane configuration and traffic control for the study area intersections are illustrated in Figure 3.

2.4 FUTURE CONDITIONS

The following sub-sections discuss the projects that are anticipated to modify the study area intersections between 2022 and the future year 2028. The future year lane configuration and traffic control for the study area intersections are illustrated in Figure 4.

2.4.1 U-6241 (South Main Street)

The U-6241 project will realign Burlington Mills Road near South Main Street as well as make streetscape and multimodal improvements along South Main Street. As part of the project, geometric improvements will be made in the study area, notably, removing the dedicated westbound right turn lane at the South Main Street & Rogers Road/Redford Place Drive intersection and re-striping the existing westbound through lane to a shared thru-right turn lane.



Inventory of Traffic Conditions February 2, 2023

2.4.2 Wallbrook

The following improvements were committed to by the Wallbrook development:

South Main Street at Realigned Burlington Mills Road

- Construct dual northbound exclusive left-turn lanes with 375 feet of full-width storage and appropriate taper
- Construct an exclusive northbound right-turn lane with 200 feet of full-width storage and appropriate taper
- Construct an exclusive westbound left-turn lane with 100 feet of full-width storage and appropriate taper
- Construct an exclusive westbound right-turn lane with 100 feet of full-width storage and appropriate taper
- Construct an exclusive eastbound left-turn lane with 500 feet of full-width storage and appropriate taper
- Construct an exclusive eastbound right-turn lane with 175 feet of full-width storage and appropriate taper
 Construct an exclusive southbound left-turn lane with 100 feet of full-width storage and appropriate taper
- Construct an exclusive southbound right-turn lane with at least 250 feet of full-width storage and appropriate taper

South Main Street at Virginia Water Drive Extension

- Virginia Water Drive will be extended through the development and intersect South Main Street as a full-movement intersection controlled by a traffic signal. Virginia Water Drive will also be extended to provide access to South Main Street, or the land uses developed as a part of Wallbrook on the west side of South Main Street.
- Construct an exclusive northbound left-turn lane with 175 feet of storage and appropriate taper
- Construct an exclusive northbound right-turn lane with 125 feet of full-width storage and appropriate taper
- Construct an exclusive southbound left-turn lane with 350 feet of full-width storage and appropriate taper
- Construct an exclusive southbound right-turn lane with 350 feet of full-width storage and appropriate taper
- Construct an exclusive eastbound left-turn lane with 225 feet of storage and appropriate taper
- Construct an exclusive westbound right-turn lane with 100 feet of full-width storage and appropriate taper

A copy of the TIA is contained in the Appendix. The Wallbrook development is discussed in more detail in Section 7.2.9.

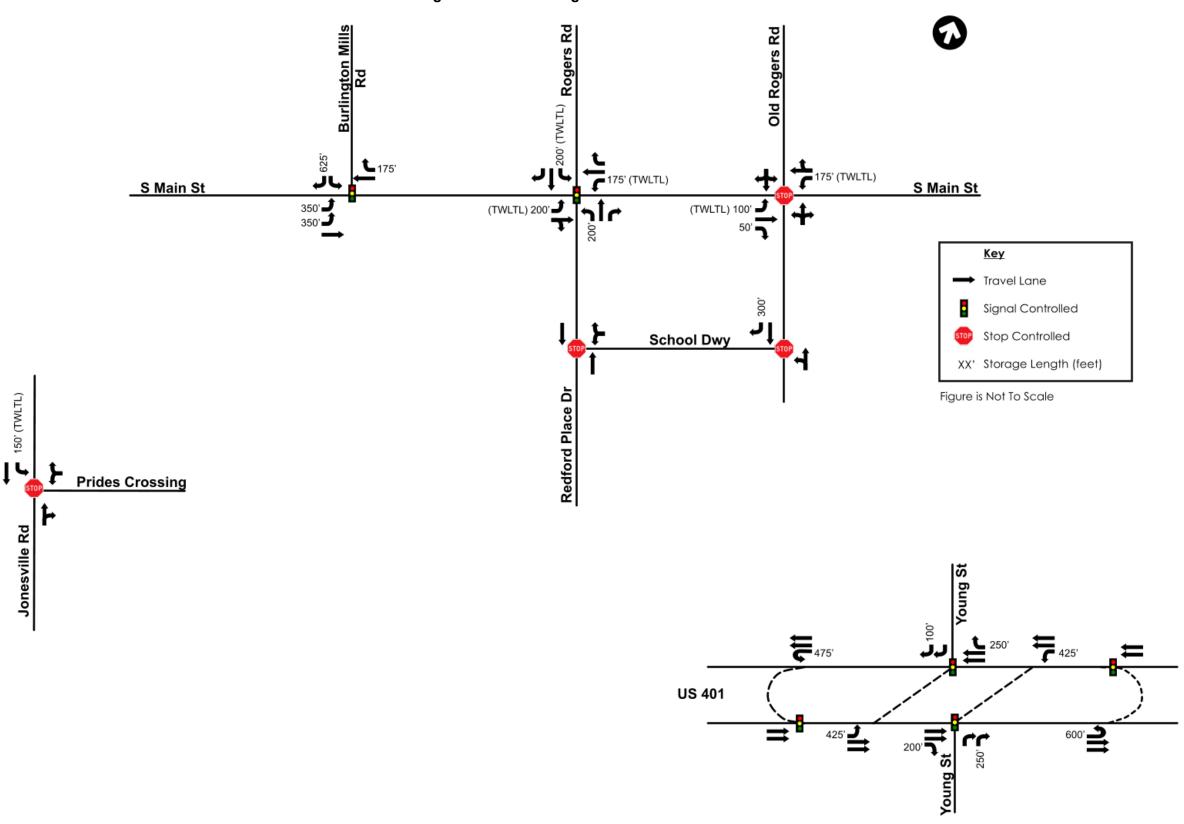
2.4.3 Scarboro

The Scarboro development will construct a new driveway along School Street, at the existing School Street & School Driveway intersection. The Scarboro development is discussed in more detail in Section 7.2.5.



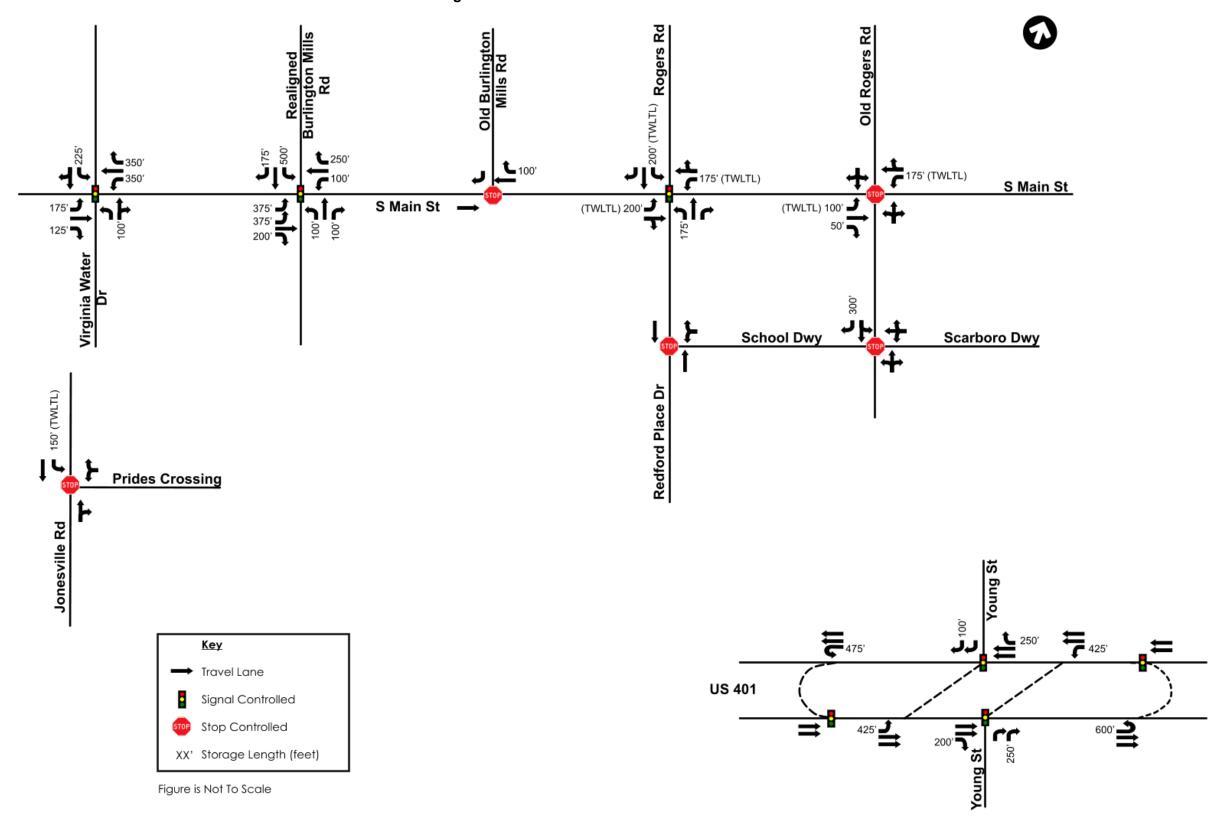
Inventory of Traffic Conditions February 2, 2023

Figure 3: 2022 Existing Lanes and Traffic Control



Inventory of Traffic Conditions February 2, 2023

Figure 4: 2028 No-Build Lanes and Traffic Control



Trip Generation and Distribution February 2, 2023

3.0 TRIP GENERATION AND DISTRIBUTION

3.1 TRIP GENERATION

Trip generation for the proposed development was performed using the 11th Edition of the Institute of Transportation Engineers (ITE) Trip Generation Manual³. The Rate versus Equation spreadsheet published by NCDOT⁴ was used to supplement the ITE methodology. No trip reductions were taken for internal capture or pass-by traffic. Trip generation for the proposed development is shown in Table 2.

Daily AM Peak PM Peak Land Use Size Total **Enter** Exit Total Enter Exit Total Enter Exit Single-Family **Detached Housing** 162 Units 1,573 786 787 116 30 86 156 98 58 (LUC 210) Single-Family Attached Housing 114 Units 818 409 409 54 17 37 64 36 28 (LUC 215) **Total Trips Generated** 2,391 1,195 1,196 170 47 123 220 134 86

Table 2: Trip Generation

3.2 SITE TRIP DISTRIBUTION

To accurately determine the effect of the proposed development on the surrounding roadway network, an estimate of the expected distribution of traffic entering and exiting the site is needed. These percentages were developed using a combination of existing traffic volume counts, historic AADTs provided by NCDOT, and engineering judgment. This trip distribution was submitted as part of NCDOT's TIA Scoping Checklist contained in the Appendix. All traffic volume calculations can be found in the Appendix.

- 35% to/from the west on US 401
- 10% to/from the west on South Main Street
- 10% to/from the north on Rogers Road
- 10% to/from the east on South Main Street
- 10% to/from the north on Young Street
- 10% to/from the east on US 401
- 10% to/from the south on Young Street
- 5% to/from the south on Jonesville Road

The trip distribution for the proposed development with Access C is shown in Figure 5. The corresponding trip assignment is shown in Figure 6. The trip distribution without Access C is shown in Figure 7. The trip assignment without Access C is shown in Figure 8.



Figure 5: Trip Distribution with Access C

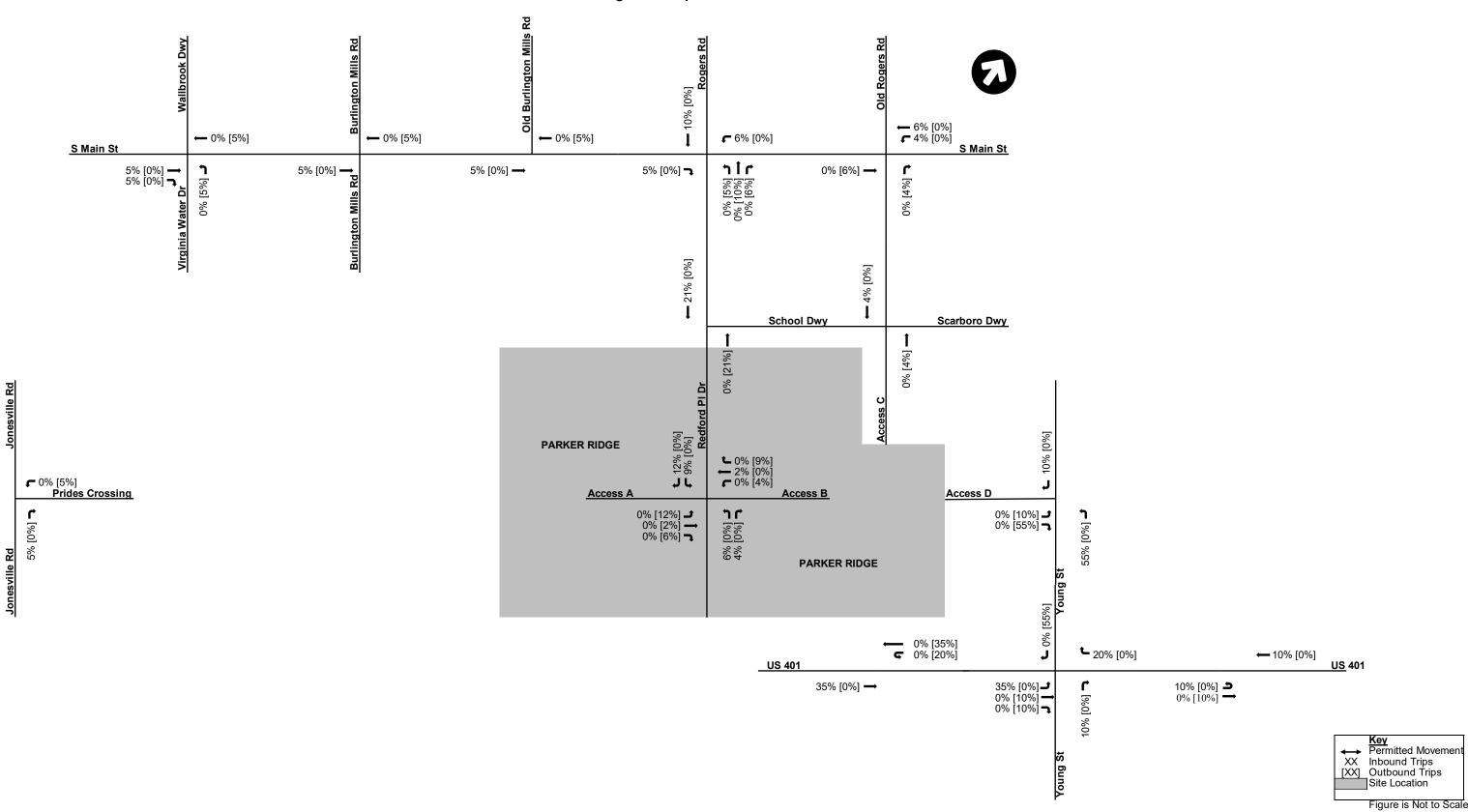


Figure 6: Trip Assignment with Access C

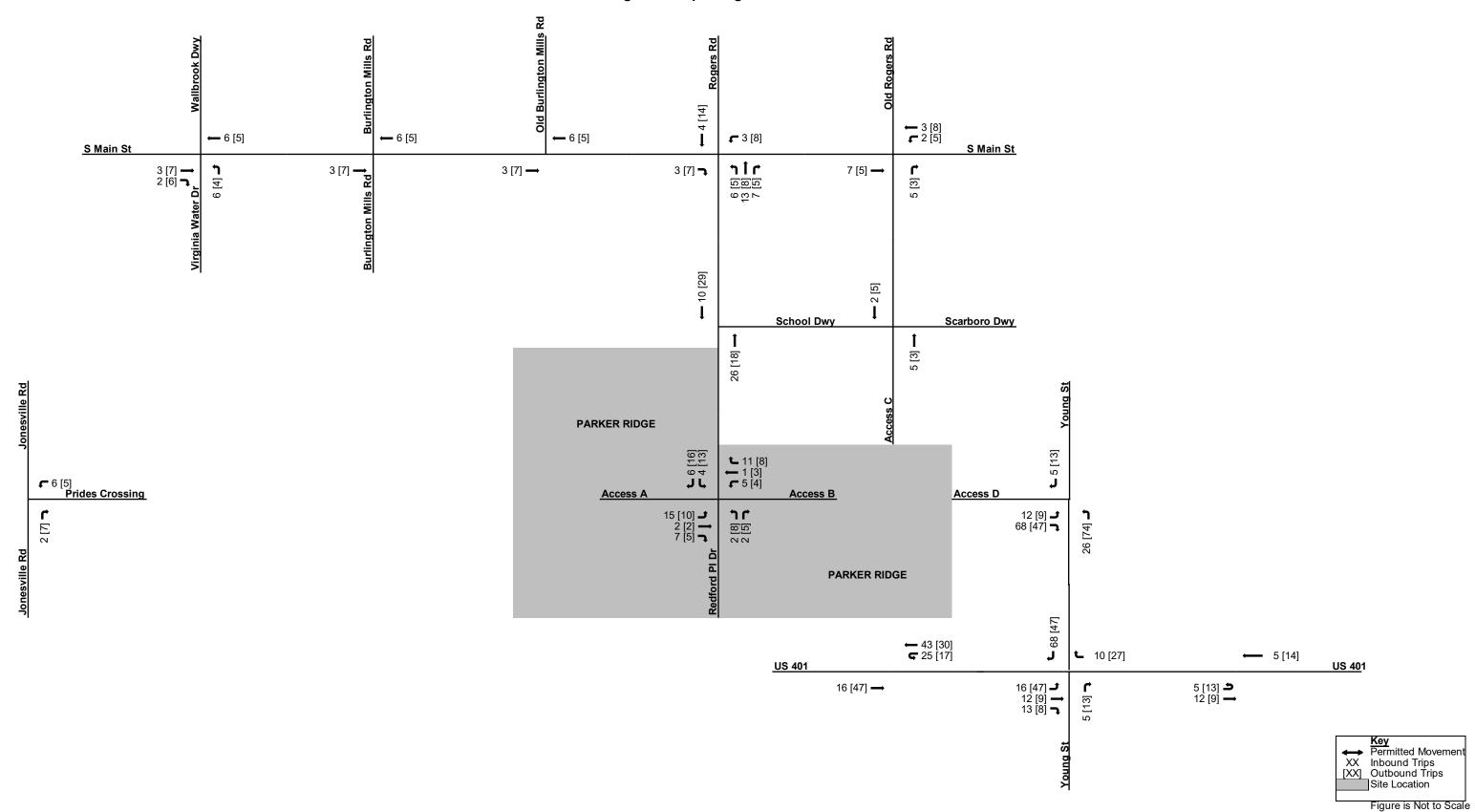


Figure 7: Trip Distribution without Access C

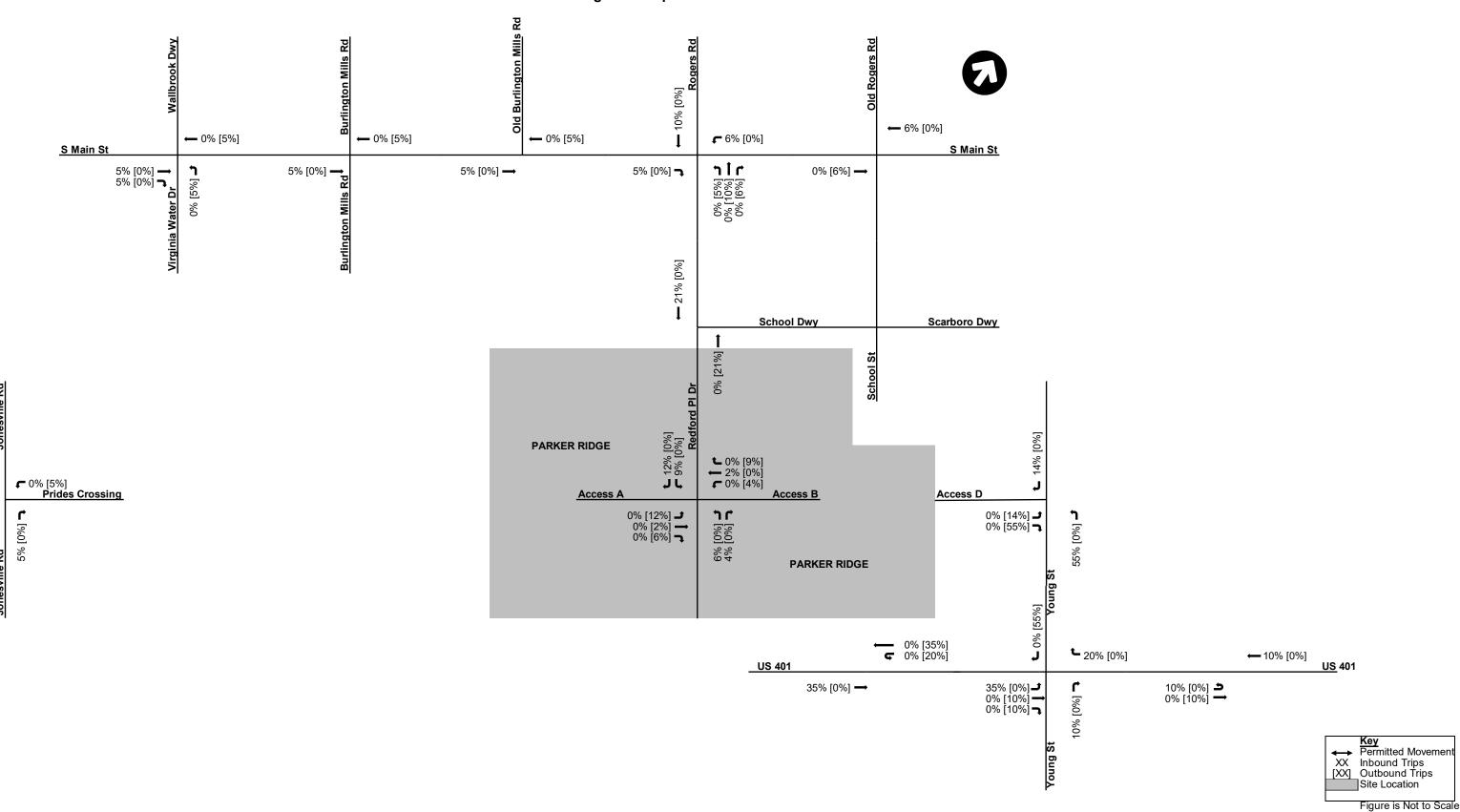
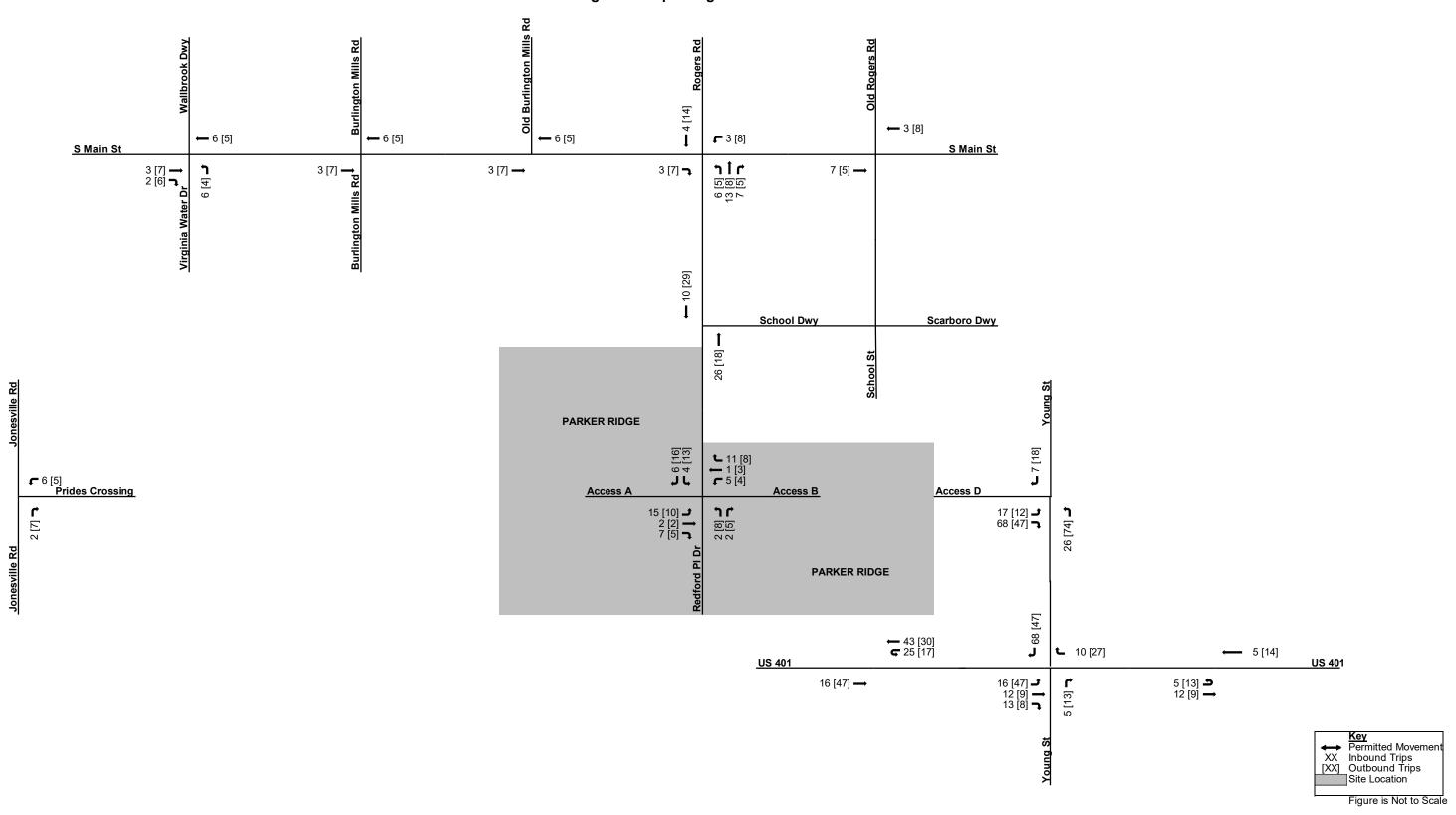


Figure 8: Trip Assignment without Access C



Traffic Volumes: 2022 Existing

February 2, 2023

4.0 TRAFFIC VOLUMES: 2022 EXISTING

4.1 DATA COLLECTION

On Tuesday, May 17, 2022, AM (7:00 - 9:45 AM) and PM (4:00 - 6:00 PM) turning movement counts were collected at the following intersection:

South Main Street at Burlington Mills Road

On Thursday, June 9, 2022, AM (7:00 - 9:45 AM) and PM (4:00 - 6:00 PM) turning movement counts were collected at the following intersections:

- Old Rogers Road/School Street at South Main Street (US 401 Business)
- Redford Place Drive/Rogers Road at South Main Street (US 401 Business)
- School Street at School Driveway/Scarboro Driveway
- Redford Place Drive at School Driveway

On Thursday, December 8, 2022, AM (7:00 - 9:00 AM) and PM (4:00 - 6:00 PM) turning movement counts were collected at the following intersections:

- Jonesville Road at Prides Crossing
- US 401 at Young Street
- School Street at School Driveway/Scarboro Driveway
- Redford Place Drive at School Driveway

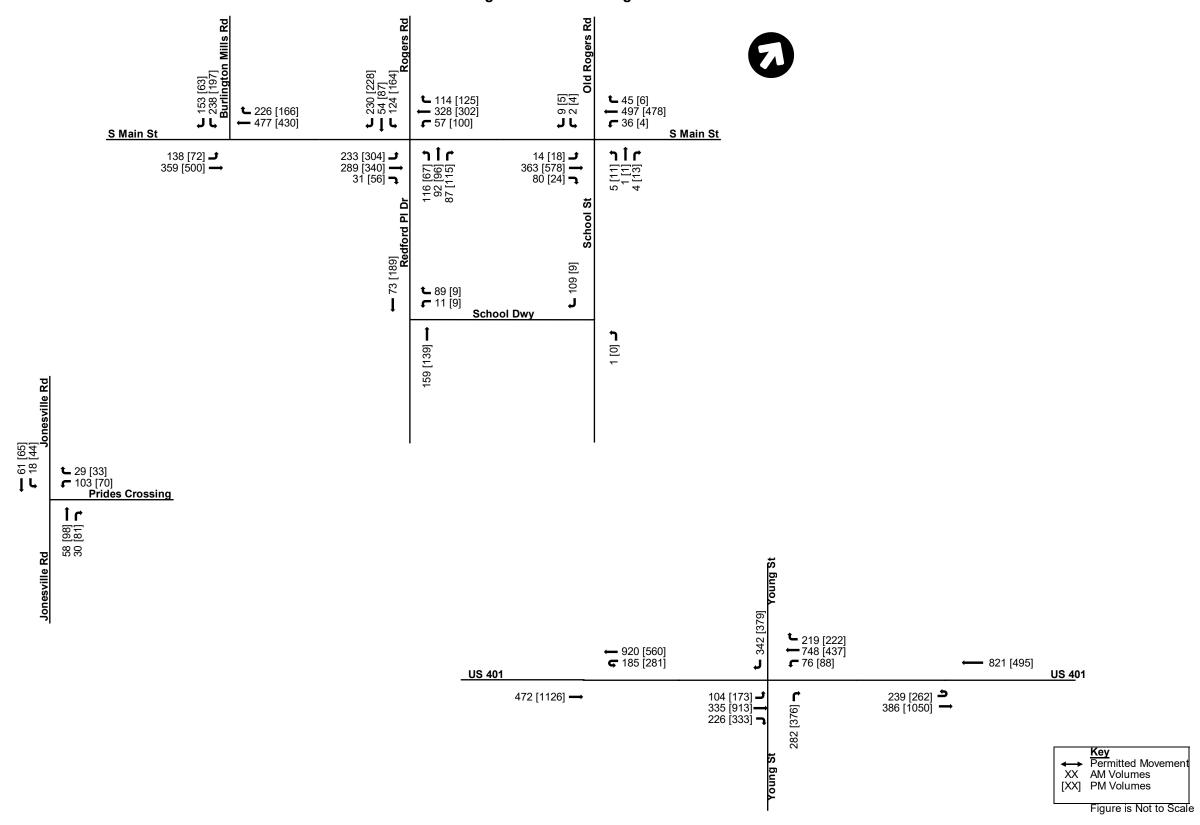
The count data provided by Quality Counts, LLC is included in the Appendix.

Traffic volumes were not balanced due to the high-volume driveways and/or long distances between study intersections. The Existing (2022) traffic volumes are shown in Figure 9.



Traffic Volumes: 2022 Existing February 2, 2023

Figure 9: 2022 Existing Traffic Volumes



Capacity Analysis February 2, 2023

5.0 CAPACITY ANALYSIS

Capacity analyses were performed for the roadway network in the study area. The traffic analysis program Synchro Version 11 and SIDRA Intersection 9 was used to analyze all signalized and stop-controlled intersections according to methods put forth by the Transportation Research Board's Highway Capacity Manual⁴ (HCM). The HCM defines capacity as the "maximum rate or flow at which persons or vehicles can be reasonably expected to traverse a point or uniform section of a line or roadway during a specified period under prevailing roadway, traffic, and control conditions, usually expressed as vehicles per lane per hour."

Level of service (LOS) is a term used to describe different traffic conditions and is defined as a "qualitative measure describing operational conditions within a traffic stream, and their perception by motorists or passengers." LOS varies from Level A, representing free flow, to Level F where traffic breakdown conditions are evident. At an unsignalized intersection, the primary traffic on the main roadway is virtually uninterrupted. Therefore, the overall delay for the intersection is usually less than what is calculated for minor street movements. The overall intersection delay and the delay for the intersections' minor movement(s) are reported in the summary tables of this report. LOS D is acceptable for signalized intersections in suburban areas during peak periods. For unsignalized intersections, it is common for some of the minor street movements or approaches to be operating at LOS F during peak hour conditions and that is not necessarily indicative of an area that requires improvements.

Capacity analyses were completed following *NCDOT Capacity Analysis Guidelines*⁵ as well as the *Draft NCDOT Capacity Analysis Guidelines Best Practices*⁶. Table 3 presents the criteria of each LOS as indicated in the HCM. It should be noted that at the US 401 & Young Street U-turn intersections, Synchro did not allow the use of DP.P phasing for the flashing yellow arrow phases. As a result, protected + permitted phasing was used instead.

Signalized Intersection **Unsignalized Intersection Level of Service Control Delay Control Delay** (LOS) (seconds/vehicle) (seconds/vehicle) Α ≤ 10 ≤ 10 В >10 and ≤ 20 >10 and ≤ 15 С >20 and ≤ 35 >15 and ≤ 25

Table 3: Level of Service Criteria

The Town of Rolesville's Land Development Ordinance (LDO)⁷, Section 8.E, establishes the following Level of Service Standards:

>35 and ≤ 55

>55 and ≤ 80

>80

3. The traffic impact analysis must demonstrate that the proposed development would not cause build-out-year, peak-hour levels of service on any arterial or collector road or intersection within the study area to fall below Level of Service (LOS) "D," as defined by the latest edition of the Highway



D

Ε

F

>25 and ≤ 35

>35 and ≤ 50

>50

Existing Capacity Analysis (2022) February 2, 2023

Capacity Manual, or, where the existing level of service is already LOS "E" that the proposed development would not cause the LOS to fall to the next lower letter grade.

4. If the road segment or intersection is already LOS "F," the traffic impact analysis must demonstrate that the proposed development, with any proposed improvements, would not cause build-out year peak-hour operation to degrade more than five (5) percent of the total delay on any intersection approach.

Peak hour factors for all analysis scenarios were set to 0.9 with one exception; all movements into and out of Rolesville Elementary School utilize a peak hour factor of 0.5 per NCDOT Municipal School Transportation Assistance. All Synchro and SIDRA files and detailed printouts can be found in the Appendix.

6.0 EXISTING CAPACITY ANALYSIS (2022)

In the base year of 2022 under the existing geometric conditions, all study intersections and approaches operate at an acceptable LOS. The results from the 2022 existing analysis are shown in Table 4.



Existing Capacity Analysis (2022) February 2, 2023

Table 4: 2022 Existing Level of Service and Delay

	Intersection	Approach	Lane Group	Delay (sec./veh.)		Level of Service (LOS)		95th % Queue (feet)		Max. Obs. Queue (feet)	
				AM	PM	AM	PM	AM	PM	AM	PM
	Jonesville Road at	WB	LR	10.3	11.1	В	В	15	15	75	74
STOP	Prides Crossing	SB	L	7.4	7.7	Α	Α	0	3	17	42
		Overa	all	22.2	18.0	С	В				
		EB	L	55.3	54.4	Е	D	90	55	140	103
_	South Main Street at	ED	Т	6.9	6.7	Α	Α	170	232	109	221
	Burlington Mills Road	WB	Т	14.1	11.7	В	В	392	361	198	249
_	Dannington Nime read	VVD	R	1.9	1.0	Α	Α	61	10	256	136
		SB	L	56.9	57.8	E	E	266	230	302	267
		<u> </u>	R	29.9	30.2	С	С	136	70	199	109
		Overa	all	26.7	27.0	С	С				
		EB	L	9.4	8.0	Α	Α	90	109	228	201
	<u> </u>		TR	15.7	11.6	В	В	265	211	235	264
			L	9.8	9.4	Α	Α	39	57	156	113
	Redford Place	WB	Т	25.4	21.2	С	С	320	273	294	249
	Drive/Rogers Road at		R	7.5	7.1	A	A	45	48	98	95
	South Main Street (US	NB	L	40.6	40.1	D	D	125	83	180	116
	401 Business)		Т	70.5	70.9	E	Е	133	137	172	171
			R	23.6	38.7	С	D	66	109	130	179
		SB	L	43.7	63.2	D	E	134	182	172	208
			Т	54.5	60.4	D	E	85	127	114	177
			R	36.2	38.2	D	D	158	171	249	260
	Old Rogers	NB	LTR	22.5	27.8	С	D	5	15	26	37
STOP	Road/School Street at	EB	L	8.8	8.6	Α	Α	0	3	20	20
	South Main Street (US	WB	L	8.5	9.0	А	Α	3	0	40	24
	401 Business)	SB	LTR	21.1	28.7	С	D	8	8	35	30
STOP	Redford Place Drive at School Driveway	WB	LR	10.5	9.7	В	А	23	3	82	36
		Overa	all	8.0	9.9	Α	Α				
_	110 404 -+>/ 0/ /	WB	Т	3.7	5.3	Α	Α	258	53	144	100
	US 401 at Young Street (North)	VVB	R	3.6	6.1	Α	Α	67	60	0	23
	(NOITI)	EB	L	0.1	0.1	Α	Α	0	0	108	136
		SB	R	22.8	22.0	С	С	98	103	147	147
		Overa	all	9.1	8.1	А	А				
-	LIC 401 at Valles Stract	EB	Т	2.8	4.0	А	Α	40	47	91	177
	US 401 at Young Street (South)		R	3.7	4.3	Α	Α	65	40	0	32
	(Souri)	NB	R	23.3	23.0	С	С	85	108	177	193
		WB	L	0	0.1	Α	Α	0	0	99	102
		Overa		2.8	11.8	Α	В				
	US 401 Eastern U-Turn	WB	Т	3.5	7.3	Α	Α	67	88	91	111
		EB	U	0.2	20.5	Α	С	0	125	110	179
		Overa		2.0	4.2	Α	Α				
	US 401 Western U-Turn	EB	Т	2.7	5.2	Α	Α	34	124	32	150
_	[WB	U	0.1	0.2	Α	Α	0	0	89	175

Traffic Volumes: 2028 No-Build & Build

February 2, 2023

7.0 TRAFFIC VOLUMES: 2028 NO-BUILD & BUILD

The development is anticipated to be constructed in 2028. The following traffic volume calculations focus on the traffic conditions projected in 2028. All traffic volume calculations can be found in the Appendix.

7.1 BACKGROUND TRAFFIC GROWTH

Background traffic growth is the increase in traffic volumes due to usage increases and non-specific growth throughout the area. The 2022 existing volumes were grown by a 2.0 percent annual rate to estimate the 2028 volumes. The growth in vehicles as a result of this future traffic growth is shown in Figure 10.

7.2 ADJACENT DEVELOPMENT TRAFFIC

There are nine (9) developments proposed to be constructed within and nearby the study area: Cobblestone, Kalas Falls, Redford Place, Rolesville Crossing, Scarboro Property, The Point, The Preserve at Moody Farm, Tucker-Wilkins, and Wallbrook. It should be noted that due to their location south of US 401, the associated trips for the Kalas Farms, Rolesville Crossing, The Point, The Preserve at Moody Farm, and Tucker-Wilkins developments were only applied to the US 401 & Young Street intersection. The total trips associated with these developments are shown in

Figure 11. The following subsections highlight salient data for each of the approved developments.

7.2.1 Cobblestone

Cobblestone is a mixed-use development proposed in the northwest quadrant of the intersection of South Main Street & Young Street. The proposed development is expected to consist of 180 apartments, 18,200 square feet of municipal flex space, and 50,000 square feet of retail space. It is estimated to be built by 2023. The trips attributed to the Cobblestone adjacent development, as well as a copy of the traffic study prepared by Ramey Kemp & Associates is provided in the Appendix.

7.2.2 Kalas Falls

Kalas Falls is a residential development on the west side of Rolesville Road just north of Mitchell Mill Road. It is anticipated to consist of 487 single-family homes and 108 townhomes. No improvements to study area intersections are expected as a part of Kalas Falls. A figure illustrating the trips attributed to Kalas Falls, as well as a copy of the traffic study prepared by Stantec, can be found in the Appendix.

7.2.3 Redford Place

Redford Place is a proposed 3-story, 19,500 square foot, mixed-use building with the top two stories being a medical/dental office and the ground-floor consisting of retail uses. The development is located on the east side of Redford Place Drive south of South Main Street and is estimated to be built out by 2023. The trips attributed to the Redford Place development, as well as a copy of the traffic study prepared by Stantec, can be found in the Appendix.



Traffic Volumes: 2028 No-Build & Build

February 2, 2023

As part of the Redford Place development, the storage of the northbound left-turn lane at the South Main Street & Rogers Road development will be reduced from 200 feet to 175 feet of full-width storage, to accommodate the installation of a southbound left-turn lane on Redford Place Drive at the Site Driveway.

7.2.4 Rolesville Crossing

Rolesville Crossing is a residential development located in the northeast quadrant of the intersection of Rolesville Road and Mitchell Mill Road. It is anticipated to consist of 233 single-family homes and 125 townhomes. The development is estimated to be built out in 2026. No improvements to study area intersections are expected as a part of Rolesville Crossing. A figure illustrating the trips attributed to Rolesville Crossing, as well as a copy of the traffic study prepared by Ramey Kemp & Associates, can be found in the Appendix.

7.2.5 Scarboro Property

Scarboro Property (aka 201 South Main St.) is a proposed development expected to consist of 240 units of senior adult housing. The development is estimated to be built out by 2023. A figure illustrating the trips attributed to the Scarboro Property, as well as a copy of the traffic study prepared by Ramey Kemp & Associates, can be found in the Appendix. The development will construct a driveway onto School Street at the existing School Street and School Driveway intersection.

7.2.6 The Point

The Point is a planned unit development (PUD) located along Rolesville Road south of US 401. Multiple phases of development were included in the study, however, the analysis presented herein includes the full build-out. When completed, the development is envisioned to consist of 621 single-family homes, 320 townhomes, and 122,800 square feet of commercial space. The development is estimated to be built out by 2025. No improvements to study area intersections are expected as a part of The Point. A figure illustrating the trips attributed to the site, as well as a copy of the traffic study prepared by Kimley-Horn and Associates, can be found in the Appendix.

7.2.7 The Preserve at Moody Farm

The Preserve at Moody Farm is a residential development located along Roseville Road. At full build-out, it is expected to consist of 82 single-family homes and is estimated to be built out by 2026. No improvements to study area intersections are expected as a part of The Preserve at Moody Farm. A figure illustrating the trips attributed to The Preserve at Moody Farm, as well as a copy of the traffic study prepared by Stantec, can be found in the Appendix.

7.2.8 Tucker-Wilkins

The Tucker-Wilkins Property is a residential development located along Roseville Road. At full build-out, it is expected to consist of 27 single-family homes and 64 townhomes and is estimated to be built out by 2026. No improvements to study area intersections are expected as a part of Tucker-Wilkins. A figure illustrating the trips attributed to Tucker-Wilkins, as well as a copy of the traffic study prepared by Stantec, can be found in the Appendix.



Traffic Volumes: 2028 No-Build & Build

February 2, 2023

7.2.9 Wallbrook

Wallbrook is a proposed mixed-use development project located along South Main Street. The proposed development is expected to consist of 107,000 square feet of office space, 17,000 square feet of restaurants, 143,000 square feet of retail space, and 170 townhomes. The development is estimated to be built out by 2025. The improvements associated with the Wallbrook development are discussed in Section 2.4.2. The trips attributed to the Wallbrook development, as well as a copy of the traffic study prepared by Stantec, can be found in the Appendix.

7.3 NO-BUILD TRAFFIC VOLUMES

The 2028 No-Build traffic volumes consist of the sum of the 2022 Existing traffic volumes, the Background traffic growth, and the adjacent development growth. The 2028 No-Build traffic volumes are shown in Figure 12.

7.4 BUILD TRAFFIC VOLUMES

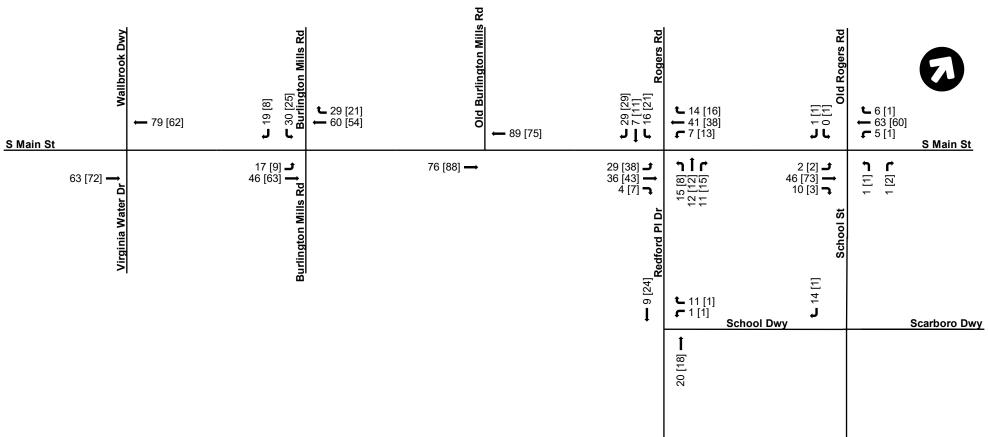
The 2028 Build traffic volumes include the 2028 No-Build traffic and the proposed development traffic discussed in Section 3.0. The 2028 Build traffic volumes are shown in Figure 13. The 2028 Build traffic volumes without Access C are shown in Figure 14.

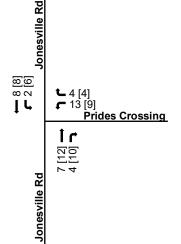


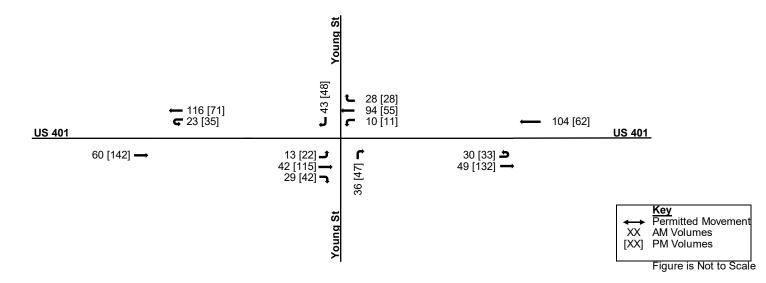
Traffic Volumes: 2028 No-Build & Build

February 2, 2023

Figure 10: Background Traffic Growth



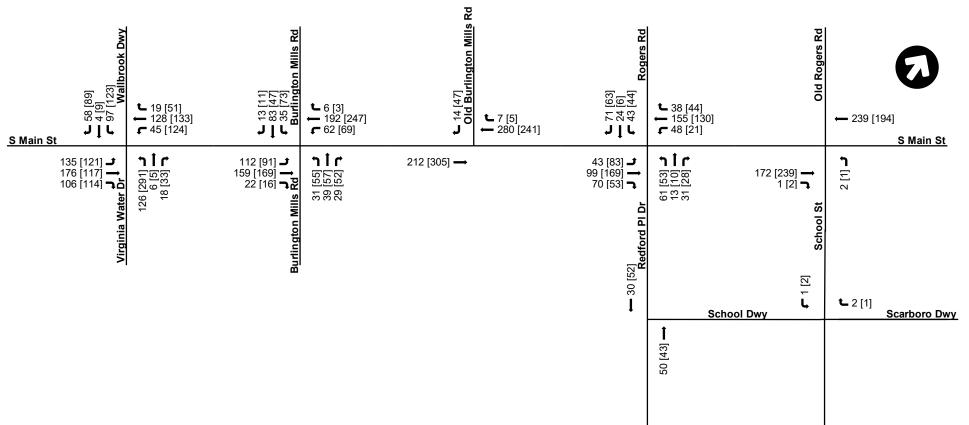


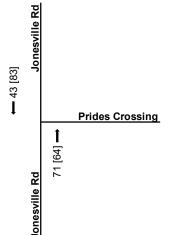


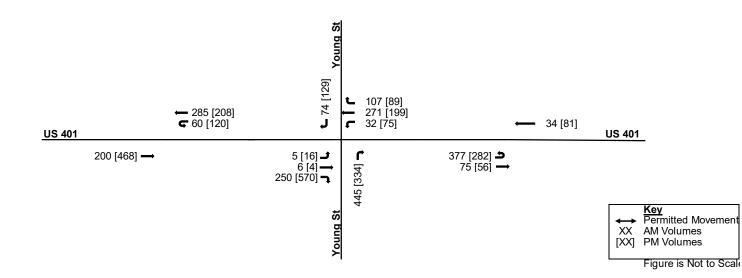
Traffic Volumes: 2028 No-Build & Build

February 2, 2023

Figure 11: Adjacent Development Traffic Volumes

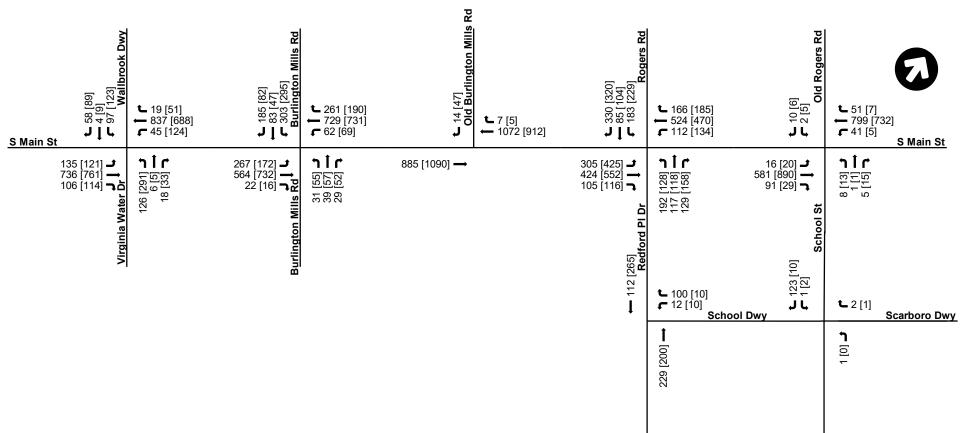


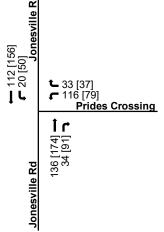


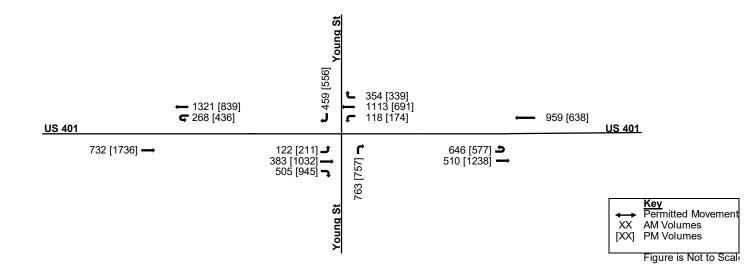


Traffic Volumes: 2028 No-Build & Build February 2, 2023

Figure 12: 2028 No-Build Traffic Volumes

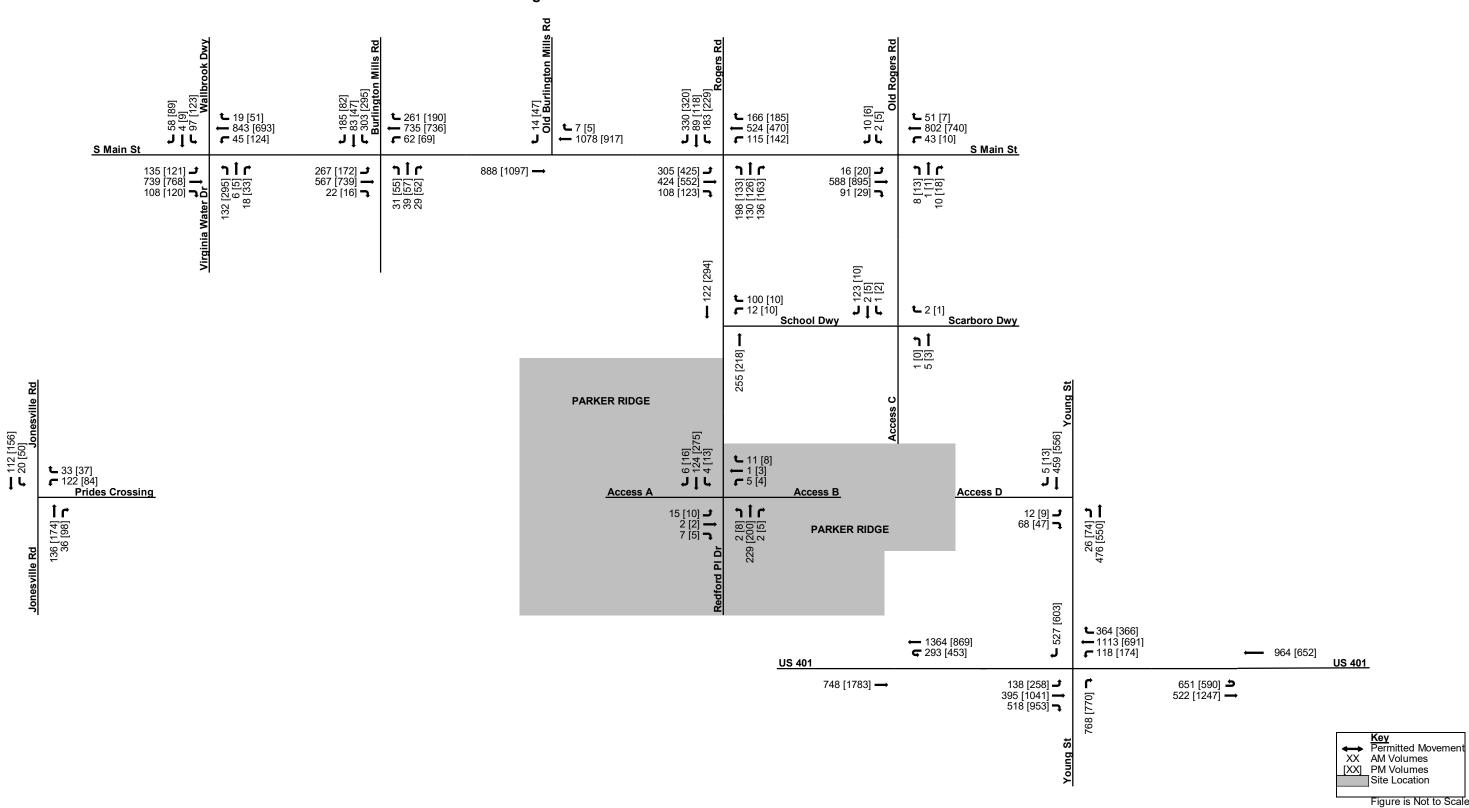






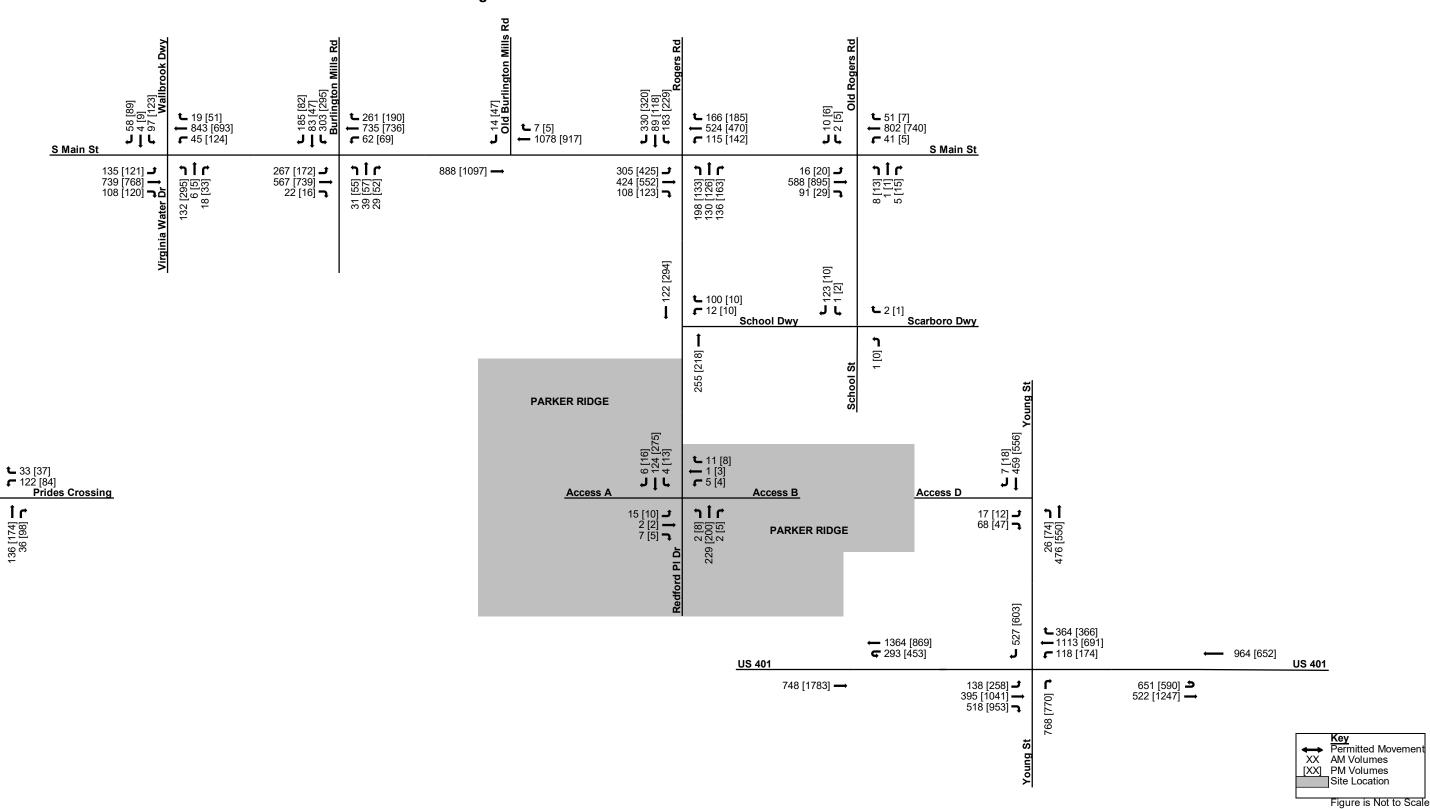
Traffic Volumes: 2028 No-Build & Build February 2, 2023

Figure 13: 2028 Build with Access C Traffic Volumes



Traffic Volumes: 2028 No-Build & Build February 2, 2023

Figure 14: 2028 Build without Access C Traffic Volumes



→ 112 [156] ← 20 [50]

2028 No-Build February 2, 2023

8.0 2028 NO-BUILD

In the 2028 No-Build conditions, the analysis assumes the improvements associated with the adjacent developments and NCDOT projects are constructed. These improvements were discussed in Section 2.4, but are also listed below:

South Main Street at Redford Place Drive/Rogers Road

- Remove the existing westbound dedicated right-turn lane and re-stripe the existing westbound through lane to a shared thru-right turn lane
- Reduce the storage of the northbound left-turn lane from 200 feet to 175 feet of full-width storage

School Street at School Driveway/Scarboro Driveway.

 Construct a stop-controlled westbound approach at the intersection for access to the Scarboro Property development

South Main Street at Realigned Burlington Mills Road

- Construct dual northbound exclusive left-turn lanes with 375 feet of full-width storage and appropriate taper
- Construct an exclusive northbound right-turn lane with 200 feet of full-width storage and appropriate taper
- Construct an exclusive westbound left-turn lane with 100 feet of full-width storage and appropriate taper
- Construct an exclusive westbound right-turn lane with 100 feet of full-width storage and appropriate taper
- Construct an exclusive eastbound left-turn lane with 500 feet of full-width storage and appropriate taper
- Construct an exclusive eastbound right-turn lane with 175 feet of full-width storage and appropriate taper
- Construct an exclusive southbound left-turn lane with 100 feet of full-width storage and appropriate taper
- Construct an exclusive southbound right-turn lane with at least 250 feet of full-width storage and appropriate taper

South Main Street at Virginia Water Drive Extension

- Virginia Water Drive will be extended through the development and intersect South Main Street as a full-movement intersection controlled by a traffic signal. Virginia Water Drive will also be extended to provide access to South Main Street, or the land uses developed as a part of Wallbrook on the west side of South Main Street
- Construct an exclusive northbound left-turn lane with 175 feet of storage and appropriate taper
- Construct an exclusive northbound right-turn lane with 125 feet of full-width storage and appropriate taper
- Construct an exclusive southbound left-turn lane with 350 feet of full-width storage and appropriate taper
- Construct an exclusive southbound right-turn lane with 350 feet of full-width storage and appropriate taper
- Construct an exclusive eastbound left-turn lane with 225 feet of storage and appropriate taper
- Construct an exclusive westbound right-turn lane with 100 feet of full-width storage and appropriate taper



2028 No-Build February 2, 2023

In 2028, the South Main Street & Redford Place Drive/Rogers Road intersection operates at LOS E in both peak hours. It should be noted that the reduction in lanes along South Main Street in conjunction with the U-6241 project resulted in lengthy queues along South Main Street in both peak hours.

The northbound and southbound approaches at the South Main Street & Old Rogers Road/School Street intersection operate at LOS F in both peak hours. It is common for minor street approaches to experience high delays at unsignalized intersections during peak hours. In the AM peak hour, there is an average of 2 vehicles queued for the northbound approach and 1 vehicle queued for the southbound approach. In the PM peak hour, there is an average of 6 vehicles queued for the northbound approach and 3 vehicles queued for the southbound approach. The westbound South Main Street queue from the Rogers Road/Redford Place Drive intersection often extends past this intersection, limiting the gaps available for vehicles wanting to travel westbound on South Main Street.

The following movements operate at LOS F during one or both peak hours:

- South Main Street at Virginia Water Drive Extension: WBL/NBL both peak hours
- South Main Street at Realigned Burlington Mills Road: WBL both peak hours, EBL/NBL AM peak hour, WBT/SBL – PM peak hour
- South Main Street at Redford Place Drive/Rogers Road: EBL/WBL/NBL/NBT/SBL both peak hours, WBTR
 PM peak hour
- US 401 at Young Street: NBR PM peak hour

Synchro LOS and delay results for the 2028 No-Build analysis scenario are listed in Table 5.



2028 No-Build February 2, 2023

Table 5: 2028 No-Build Level of Service and Delay

	Intersection	Approach Lane Group		Delay (sec./veh.)		Level of Service (LOS)		95th % Queue (feet)		Max. Obs. Queue (feet)	
	Jonesville Road at			AM	PM	AM	PM	AM	PM	AM	PM
STOP		WB	LR	11.9	13.4	В	В	23	23	83	84
310	Prides Crossing	SB	L	7.6	8.0	С	Α	0	3	30	42
		Overa		29.8	46.3	С	D				
		EB	L	75.5	50.0	E	D	174	186		_
			TR	64.7	46.7	E	D	115	147		
_	South Main Street at	WB	L TR	93.0 59.9	91.8 43.3	F E	F	232 57	528 69		
	Virginia Water Drive		L	86.5	105.5	F	D F	233	269	30 42 189 184 137 188 227 566 76 200 275 275 965 1111* 225 225 449 450 1000 865 329 337 449 466 292 244 228 137 90 128 107 167 65 110 474 474 859 988 298 272 199 199 1608 1649 350 350 46 190 300 300 1098 3695 275 275 1617 884 273 235 382 256 203 250 284 299 314 603 354 363 142 239 110 <td< td=""></td<>	
_	Extension	NB	T	16.1	48.7	В	D	576	1125		
		ND	R	8.7	22.5	A	С	63	118		
			L	68.2	70.7	E	E	77	178		
		SB	Т	15.5	15.9	В	В	268	174		
			R	8.0	10.1	Α	В	7	14	329	337
		Overa	I	50.0	43.4	D	D				
			L	123.1	75.3	F	Е	586	455	449	466
		EB	T	56.7	48.4	Е	D	137	81	292	244
			R	40.7	29.8	D	С	212	93	AM PM 83 84 30 42 189 184 137 188 227 566 76 200 275 275 965 1111* 225 225 449 450 1000 865 329 337 449 466 292 244 228 137 90 128 107 167 65 110 474 474 859 988 298 272 199 199 1608 1649 350 350 46 190 300 300 1098 3695 275 275 1617 884 273 235 382 256 203 250 284	
			L	82.1	92.8	F	F	74	121		
_	South Main Street at	WB	T	78.7	86.2	E	F	87	121		AM PM 83 84 30 42 189 184 137 188 227 566 76 200 275 275 965 1111* 225 225 449 450 1000 865 329 337 449 466 292 244 228 137 90 128 107 167 65 110 474 474 859 988 298 272 199 199 1608 1649 350 350 46 190 300 300 1098 3695 275 275 1617 884 273 235 382 256 203 250 284
	Realigned Burlington		R	28.0	37.2	С	D	40	65		
	Mills Road		L	104.2	72.8	F	Е	267	150		
		NB	T	32.9	26.2	С	С	425	1120		
			R	7.6	7.8	A	A F	8	5	83 84 30 42 189 184 137 188 227 566 76 200 275 275 965 1111* 225 225 449 450 1000 865 329 337 449 466 292 244 228 137 90 128 107 167 65 110 474 474 859 988 298 272 199 199 1608 1649 350 350 46 190 300 300 1098 3695 275 275 1617 884 273 235 382 256 203 250 284 299 314 603 354 363 142 2	
		CD	L T	59.4	85.1	E		78	117		1
		SB	R	29.5 3.6	42.6 4.0	C A	D A	762 59	912 48		
STOP	South Main Street at Old Burlington Mills	SB	R	21.9	20.1	С	С	5	15		
	Road	Overa	II	62.5	73.3	E	E				
	-		L L	83.7	107.7	F	F	493	774	300	300
		EB	TR	17.6	25.9	В	С	416	560		
			1	89.7	107.8	F	F	198	278	1098 369 275 275 1617 884	
	Redford Place	WB	TR	67.2	90.4	E	F	1065	1118		
	Drive/Rogers Road at South Main Street (US 401 Business)		L	115.3	106.9	F	F	398	265		235
		NB	Т	88.8	101.6	F	F	206	231	382	256
			R	39.1	46.7	D	D	145	194	203	250
		SB	L	98.6	123.3	F	F	381	503		
			Т	74.9	73.9	Е	Е	156	194	314	603
			R	42.3	30.1	D	С	338	311	354	363
	Old Rogers	NB	LTR	158.5	##	F	F	43	153	142	239
STOP	Road/School Street at	EB	L	10.1	9.6	В	Α	3	3	110	122
STOP	South Main Street (US	WB	L	9.8	12.2	Α	В	5	0	205	200
	401 Business)	SB	LTR	103.9	##	F	F	33	83	210	173
	School Street at School	NB	LTR	7.8	7.3	A	A	0	0		
STOP	Driveway	WB SB	LTR LT	8.9 7.2	8.6 7.2	A A	A	0	0		_
STOP	Redford Place Drive at School Driveway	WB	LR	11.6	10.6	В	В	30	5		
		Overa	ll	9.0	10.5	Α	В				
_	110 404 134 23		T	5.5	6.1	Α	Α	66	58	232	174
	US 401 at Young Street (North)	WB	R	4.9	7.5	Α	Α	49	94	298 272 199 199 1608 1649 350 350 46 190 300 300 1098 3695 275 275 1617 884 273 235 382 256 203 250 284 299 314 603 354 363 142 239 110 122 205 200 210 173 0 0 29 29 0 0 93 40	
	(INOILII)	EB	L	0.1	0.1	Α	Α	0	0		
		SB	R	23.2	21.9	С	С	131	150	185	200
		Overa		17.6	44.2	В	D				
_	US 401 at Young Street	EB	T	7.3	10.4	Α	В	70	281		
	(South)		R	16.7	57.6	В	E	271	1135	+	
	\	NB	R	26.1	83.7	С	F	233	537		
		WB	L	0.1	0.1	A	A	0	0	81	167
•		Overa		2.7	3.3	A	A	100			
	US 401 Eastern U-Turn	WB	T	4.2	6.0	A	A	100	265		
		EB	U	0.6	0.4	A	A	0	0	432	275
	110 404 347 6 33 7	Overa		2.3	2.9	A	A	040	407	0.4	202
	US 401 Western U-Turn	EB	T	3.1	3.5	A	A	212	187	84	602
		WB	U	0.2	0.4	Α	Α	0	0	122	579

= Delay exceeds 300 seconds



 $^{{}^{\}star}\text{Maximum queue extends off the SimTraffic network and may be longer than recorded}$

Traffic Analysis: Build with Access C

February 2, 2023

9.0 TRAFFIC ANALYSIS: BUILD WITH ACCESS C

9.1 2028 BUILD WITH ACCESS C

In the Build scenario with Access C, the conditions that were noticed in the No-Build scenario remained the same. The South Main Street & Redford Place Drive/Rogers Road intersection still operates at LOS E in both peak hours along with queues at times exceeding 1000' along South Main Street.

The minor northbound and southbound approaches at the South Main Street & Old Rogers Road/School Street intersection operate at LOS F in both peak hours. It is common for minor street approaches to experience high delays at unsignalized intersections during peak hours.

The proposed roundabout at the Redford Place Drive at Access A/Access B intersection operates at LOS A in both peak hours. The School Street/Access C at School Driveway/Scarboro Driveway operates at LOS A in both peak hours. The Young Street at Access D intersection operates at LOS B in the AM peak hour and LOS C in the PM peak hour.

Synchro LOS and delay results for the 2028 Build with Access C scenario are listed in Table 6.



Traffic Analysis: Build with Access C February 2, 2023

Table 6: 2028 Build with Access C Level of Service and Delay

	Intersection	Approach	Lane Group		elay /veh.)	Level of Service 95th % Q (LOS) (feet					
			-	AM	PM	AM	PM	AM	PM	AM	PM
STOP	Jonesville Road at	WB	LR	12	13.7	В	В	25	25	90	85
	Prides Crossing	SB	L L	7.6	8	A	A	0	3	30	48
		Overa		30.2 73.6	46.9	С	D D	172	400	100	200
		EB	L TR	63.6	49.7 46.5	E E	D	114	186 147		
			L	92.6	92.1	F	F	243	541		
	South Main Street at	WB	TR	59.0	43.2	Е	D	56	69	90 85 30 48 180 206 117 227 273 560 142 200 275 275 1000 1100* 225 225 450 449 944 886 286 376 431 464 318 197 246 124 88 129 136 188 88 113 396 474 599 912 220 190 199 200 1724 1399 350 350 89 124 300 300 1202 2691 275 275 1433 1854* 274 246 401 311 226 312 269 299 331 636 376 446 150 249 79 149 188 225 149 223 0 0 29 29 0 0 83 44 44 39 31 13 16 52 22 28 79 160 62 63 255 177 67 139 188 225 149 223 0 0 29 29 0 0 83 44	
	Virginia Water Drive – Extension		L	86.5	105.5	F	F	233	269		275
		NB	Т	16.7	49.5	В	D	595	1131		
			R	9.1	22.3	A	С	66	121		
		SB	L T	67.4 16.3	73.8 16.4	E B	E B	77 269	181 174		
		ОВ	R	8.4	10.4	A	В	8	14		
		Overa	l .	48.9	43.7	D	D		1 1	200	070
			L	123.1	75.3	F	Е	586	455	431	464
		EB	Т	56.7	48.4	Е	D	137	81	318	197
			R	40.9	29.8	D	С	212	93		
		WD	L	82.1	92.8	F	F	74	121		
	South Main Street at	WB	T R	78.7 54.0	86.2 37.2	E D	F D	87 58	121 65		
	Realigned Burlington Mills Road		L	108.9	72.5	F	E	267	147	1	
		NB	T	20.4	26.6	С	C	450	1139		
			R	8.2	7.6	Α	Α	11	5	220	190
			L	78.5	84.3	Е	F	81	117		
		SB	Т	31.2	43.4	С	D	770	908		
	South Main Street at		R	4.0	4	Α	A	51	48	350	350
STOP	Old Burlington Mills Road	SB	R	22.1	20.2	С	С	5	18	89	124
		Overa		64.0	73.8	Е	E				
		EB	L	82.4	99.2	F	F	484	752	396 599 220 199 1724 350 89 300 1202 275 1433 274 401 226 269 331 376 150	
			TR L	19.5 89.6	26.7 108.0	B F	C F	432 202	594 294		
	Redford Place	WB	TR	67.8	94.9	E	F	1065	1130		
•	Drive/Rogers Road at		L	121.0	107.8	F	F	415	277		
	South Main Street (US 401 Business)	NB	Т	91.5	104.6	F	F	226	256	401	311
	401 Business)		R	38.9	46.0	D	D	152	199	226	312
		SB	L	103.2	127.2	F	F	381	503	269	299
			Т	75.8	76.6	E	E	163	216		
			R	42.1	29.4	D	С	338	307		
	Old Rogers	NB	LTR	145.6	##	F	F	48	N/A		
STOP	Road/School Street at South Main Street (US	EB WB	L	10.1 9.8	9.6 12.7	B A	A B	3 5	3		
	401 Business)	SB	LTR	122	##	F	F	38	90		
	,	NB	LTR	7.8	7.3	A	A	0	0		
STOP	School Street at School - Driveway/Access C	WB	LTR	8.9	8.6	Α	Α	0	0		
	Billoway// loocoo o	SB	LT	7.2	7.2	Α	Α	0	0	0	0
STOP	Redford Place Drive at School Driveway	WB	LR	11.9	10.8	В	В	33	5	83	44
		Overa		3.8	4.2	Α	Α				
∇	Redford Place Drive at	NB WB	LTR	4.1	4	A	A	29	26		
V	Access A/Access B	SB	LTR LTR	3.4	3.8 4.3	A	A	3 15	37		
		EB	LTR	3.6	4.1	A	A	3	3	22	28
STOP	Young Street at Access	NB	LT	8.5	9.1	A	Α	3	8		
	D	EB	LR	14.7	21.3	В	С	18	20	62	63
		Overa	ill T	10.2 6.6	10.9 6.8	В	В	61	61	255	177
	US 401 at Young Street	WB	R	6.0	8.9	A A	A	46	137		
	(North)	EB	L	0.0	0.9	A	A	0	0	599 912 220 190 199 200 1724 1399 350 350 89 124 300 300 1202 2691 275 275 1433 1854* 274 246 401 311 226 312 269 299 331 636 376 446 150 249 79 149 188 225 149 223 0 0 29 29 0 0 83 44 44 39 31 13 16 52 22 28 79 160 62 63 255 177 67 139 122 177 191 219	
		SB	R	23.2	21.4	С	C	150	160	1	1
		Overa	l .	18.0	46.4	В	D				
_	US 401 at Young Street	EB	Т	7.6	10.2	Α	В	72	264		
	(South)		R	18.0	60.0	В	E	324	1148		
	\	NB WB	R	26.3	89.0	C	F	252	551	1	
		WB	L L	0.1	0.1	A	A	0	0	/8	159
	US 401 Eastern U-Turn	Overa WB	T T	2.7 4.2	3.6 6.4	A A	A	102	116	180	136
	CO TOT LASIGNI U-TUIN	EB	U	0.6	0.4	A	A	0	0		
		Overa		2.3	3.0	A	A				
	US 401 Western U-Turn	EB	Т	3.2	3.6	Α	Α	56	199	83	631
-		WB	U	0.2	0.4	Α	Α	0	0	139	610

= Delay exceeds 300 seconds



^{*}Maximum queue extends off the SimTraffic network and may be longer than recorded

Traffic Analysis: Build with Access C

February 2, 2023

9.2 2028 BUILD IMPROVED WITH ACCESS C

As noted in Section 5.0, the Rolesville LDO requires that any study area intersections that operate at LOS F and where the delay in the Build scenario increases by more than 5% when compared to the No-Build scenario should be investigated for mitigation. With the addition of traffic generated by the proposed development, the northbound School Street and southbound Old Rogers Road approach of the South Main Street at Old Rogers Road/School Street intersection increases in delay by greater than 5%. If high delays are experienced on the stop-controlled approaches, drivers may opt for alternative routes. Even so, the intersection was evaluated for potential improvements to meet the requirements of the Rolesville LDO:

- The installation of a traffic signal would improve the LOS of the side streets significantly. This, however, is
 not anticipated to be permitted by NCDOT due to the proximity of the intersection to the adjacent signalized
 intersection of South Main Street at Redford Place Drive/Rogers Road. In addition, the low traffic volumes
 on the side-street approaches of Old Rogers Road and School Street are not anticipated to meet the
 warrants for the installation of a traffic signal included in the Manual on Uniform Traffic Control Devices
 (MUTCD).
- The construction of dedicated left-turn turn lanes on Old Rogers Road and School Street reduces delay but
 does not mitigate the impact of the proposed development. This is attributed to low volumes of traffic on the
 side-street approaches and high through volumes on South Main Street. The installation of turn lanes may
 also impact adjacent property owners. As a result, the installation of turn lanes on Old Rogers Road and
 School Street is not recommended.
- Converting the southbound approach of Old Rogers Road to right-in/right-out access by installing channelization was shown to reduce delays on the side streets such that School Street is anticipated to operate at LOS C and Old Rogers Road is anticipated to operate at LOS D during the PM peak hour. This would require left turns from Old Rogers Road to be redirected to Rogers Road and use the traffic signal at the intersection of South Main Street at Redford Place Drive/Rogers Road; increasing travel time for existing vehicles on the Old Rogers Road approach. Furthermore, the restriction of access without the installation of a median has only limited effectiveness. As a result, the restriction of access is not recommended.

Therefore, no improvements are recommended at the South Main Street at Old Rogers Road/School Street intersection in conjunction with this development. Consideration should be made for limiting the southbound Old Rogers Road approach to right-in/right-out access in the future.

9.2.1 Proposed Improvements By Others

This study assumes that Access D, from the proposed development to Young Street, is constructed by others. Based on the findings of this study, the following improvements are recommended for this access point:

Young Street at Access D

- Construct Access D as a full-movement access point
- Construct Access D with one ingress lane and one egress lane with 100 feet of internal protective stem
- Provide a northbound left turn lane with 75 feet of full-width storage and appropriate taper

The 2028 Build Improved with Access C capacity analysis results is shown in Table 7.



Traffic Analysis: Build with Access C February 2, 2023

Table 7: 2028 Build Improved with Access C Level of Service and Delay

	Intersection	Approach	Lane Group		elay /veh.)		Service OS)		Queue eet)		Max. Obs. Queue (feet)	
				AM	PM	AM	PM	AM	PM	AM	PM	
STOP	Jonesville Road at	WB	LR	12	13.7	В	В	25	25	100	81	
	Prides Crossing	SB	L L	7.6	8 46.9	A C	A D	0	3	33	51	
	-	Overa	ll L	30.2 73.6	46.9	E	D	172	186	172	234	
		EB	TR	63.6	46.5	E	D	114	147		272	
		WD	L	92.6	92.1	F	F	243	541	252	580	
	South Main Street at Virginia Water Drive	WB	TR	59.0	43.2	Е	D	56	69	107	200	
	Extension		L	86.5	105.5	F	F	233	269	275	275	
		NB	T	16.7	49.5	В	D	595	1131		1113*	
			R	9.1 67.4	22.3 73.8	A E	C E	66 77	121 181			
		SB	T	16.3	16.4	В	B	269	174			
		OB	R	8.4	10.4	A	В	8	14	+		
		Overa	1	48.9	43.7	D	D				J.	
		Overa										
		EB	L T	123.1 56.7	75.3 48.4	F E	E D	586 137	455 81	_		
		ED	R	40.9	29.8	D	С	212	93			
			1	82.1	92.8	F	F	74	121			
	South Main Street at	WB	T	78.7	86.2	E	F	87	121	AM 100 33	270	
	Realigned Burlington Mills Road		R	54.0	37.2	D	D	58	65		111	
	IVIIIIS ROAG		L	108.9	72.5	F	Е	267	147		442	
		NB	Т	20.4	26.6	С	С	450	1139		1064	
			R	8.2	7.6	Α	Α	11	5			
		0.0	L	78.5	84.3	E	F	81	117			
		SB	T R	31.2 4.0	43.4	C A	D A	770 51	908 48	340 439 958 702 368 374 457 504 309 409* 233 132 77 144 117 270 78 111 380 442 577 1064 219 274 200 199 2000 1521 350 350 128 154 300 300 1113 3737 275 275 1373 1855* 268 250 396 293 180 400 281 300 282 820* 364 447 102 289 57 163 207 151 100 266 0 0 29 29 0 3		
	South Main Street at		I N	4.0	4.0	A	A	31	40	330	330	
STOP	Old Burlington Mills Road	SB	R	22.1	20.2	С	С	5	18	128	154	
		Overa		64.0	73.8	E	E	404			222	
		EB	L	82.4	99.2	F	F	484	752	300 1113 275 1373 268		
	_		TR	19.5	26.7	B F	C F	432	594			
	Redford Place	WB	L TR	89.6 67.8	108.0 94.9	E	F	202 1065	294 1130			
	Drive/Rogers Road at		L	121.0	107.8	F	F	415	277			
	South Main Street (US	NB	T	91.5	104.6	F	F	226	256	1113 275 1373 268 396 180	†	
	401 Business)	112	R	38.9	46.0	D	D.	152	199			
			L	103.2	127.2	F	F	381	503			
		SB	Т	75.8	76.6	Е	Е	163	216			
			R	42.1	29.4	D	С	338	307	364	447	
	Old Rogers	NB	LTR	145.6	##	F	F	48	N/A	102	289	
STOP	Road/School Street at	EB	L	10.1	9.6	В	Α	3	3			
	South Main Street (US 401 Business)	WB	L	9.8	12.7	Α	В	5	3	1		
	401 Dusiness)	SB	LTR	122	##	F	F	38	90			
STOP	School Street at School - Driveway/Access C -	NB WB	LTR LTR	7.8 8.9	7.3 8.6	A	A	0	0			
		SB	LT	7.2	7.2	A	A	0	0			
STOP	Redford Place Drive at School Driveway	WB	LR	11.9	10.8	В	В	33	5	89	49	
		Overa		3.8	4.2	Α	Α					
\$ m 7	Redford Place Drive at	NB WB	LTR	4.1	4	A	A	29	26		33	
\triangle	Access A/Access B	WB SB	LTR LTR	3.4	3.8 4.3	A	A	3 15	37		23 60	
		EB	LTR	3.6	4.3	A	A	3	3		26	
STOP	Young Street at Access	NB	L	8.5	9.1	A	A	3	8		64	
5101	D	EB	LR	14.7	20.7	В	С	18	20	64	70	
	<u> </u>	Overa	1	10.2	10.9	В	В					
	US 401 at Young Street	WB	T	6.6	6.8	A	A	61	61		187	
	(North)	EB	R	6.0	8.9	A	A	46 0	137		146 171	
		SB	L R	0.1 23.2	0.1 21.4	A C	A C	150	160		224	
		Overa		18.0	46.4	В	D	130	100	100	224	
			Т Т	7.6	10.2	A	В	72	264	170	751	
.	US 401 at Young Street	EB	R	18.0	60.0	В	E	324	1148		338	
	(South)	NB	R	26.3	89.0	C	F	252	551		379	
		WB	L	0.1	0.1	Α	Α	0	0	76	175	
		Overa	ıll	2.7	3.6	Α	Α					
	US 401 Eastern U-Turn	WB	Т	4.2	6.4	Α	Α	102	116	193	133	
		EB	U	0.6	0.4	A	A	0	0	433	367	
	110 404 West 11 T	Overa		2.3	3.0	A	A	F0	400	70	600	
	US 401 Western U-Turn	EB WB	T U	3.2 0.2	3.6 0.4	A	A	56 0	199 0	72 132	608 607	
		VVD		U.Z	0.4			l U	U	132	1 007	

= Delay exceeds 300 seconds



^{*}Maximum queue extends off the SimTraffic network and may be longer than recorded

Traffic Analysis: Build without Access C

February 2, 2023

10.0 TRAFFIC ANALYSIS: BUILD WITHOUT ACCESS C

10.1 2028 BUILD WITHOUT ACCESS C

In the Build scenario without Access C, the conditions that were noticed in the No-Build scenario remained the same. The South Main Street & Redford Place Drive/Rogers Road intersection still is expected to operate at LOS E in both peak hours along with queues at times exceeding 1000' along South Main Street.

The minor northbound and southbound approaches at the South Main Street & Old Rogers Road/School Street intersection operate at LOS F in both peak hours. It is common for minor street approaches to experience high delays at unsignalized intersections during peak hours.

The proposed roundabout at the Redford Place Drive at Access A/Access B intersection operates at LOS A in both peak hours. The School Street/Access C at School Driveway/Scarboro Driveway intersection operates at LOS A in both peak hours. The Young Street at Access D intersection operates at LOS C in both peak hours.

Synchro LOS and delay results for the 2028 Build without Access C analysis scenario are listed in Table 8.



Traffic Analysis: Build without Access C February 2, 2023

Table 8: 2028 Build without Access C Level of Service and Delay

	Intersection	Approach	Lane Group		lay /veh.)		Service		Queue et)		
				AM	PM	AM	PM	AM	PM	AM	PM
STOP	Jonesville Road at	WB	LR	12	13.7	В	В	25	25	90	98
	Prides Crossing	SB	L	7.6	8	Α	Α	0	3	30	37
	-	Overa		30.2 73.6	46.9 49.7	C E	D D	172	186	107	201
		EB	L TR	63.6	49.7	E	D	114	147	+	
	-		L	92.6	92.1	F	F	243	541	90 98 30 37 197 201 120 175 278 543 142 200 274 275 966 1110* 225 225 449 449 961 830 253 450 475 451 332 144 199 135 86 138 119 172 72 128 373 475 569 1067 214 300 199 200 1750 1876 350 350 94 225 300 300 1271 3389 275 275 1564 1607 270 261 387 273 227 222 283 300 365 532 408 314 114 200 88 95 159 148 144 131 0 0 29 29 0 2 80 34	
B	South Main Street at Virginia Water Drive	WB	TR	59.0	43.2	Е	D	56	69	142	200
	Extension		L	86.5	105.5	F	F	233	269		
		NB	T	16.7	49.5	В	D	595	1131		
	-		R	9.1	22.3	A E	C E	66 77	121	+	
		SB	L T	67.4 16.3	73.8 16.4	B	B	269	181 174	_	
		OB	R	8.4	10.4	A	В	8	14	+	
		Overa		48.9	43.7	D	D	-			
			L	123.1	75.3	F	Е	586	455	475	451
		EB	Т	56.7	48.4	E	D	137	81	+	
	-		R	40.9	29.8	D	С	212	93		
	Courth Main Charact	WB	L T	82.1 78.7	92.8 86.2	F E	F	74 87	121 121		
	South Main Street at Realigned Burlington	VVD	R	54.0	37.2	D	D	58	65		
	Mills Road		L	108.9	72.5	F	E	267	147		
		NB	Т	20.4	26.6	С	С	450	1139	72 128 373 475 569 1067 214 300 199 200 1750 1876 350 350 94 225 300 300 1271 3389 275 275	
			R	8.2	7.6	Α	Α	11	5		
			L	78.5	84.3	E	F	81	117		
		SB	T	31.2	43.4	C	D	770	908 48		
	South Main Street at		R	4.0	4.0	Α	А	51	48	350	350
STOP	Old Burlington Mills Road	SB	R	22.1	20.2	С	С	5	18	94	225
	-	Overa	all T	64.0	73.8	E F	E	404	750	200	200
		EB	TR	82.4 19.5	99.2 26.7	В	C	484 432	752 594	72 373 569 214 199 1750 350 94 300 1271 275 1564 270 387 227 283 365 408 114 88 159	
	-		I	89.6	108.0	F	F	202	294	+	
	Redford Place	WB	TR	67.8	94.9	E	F	1065	1130	+	
	Drive/Rogers Road at		L	121.0	107.8	F	F	415	277	1750 1876 350 350 94 225 300 300 1271 3385 275 275 1564 1607 270 261 387 273 227 222 283 300 365 532 408 314 114 200	261
	South Main Street (US 401 Business)	NB	Т	91.5	104.6	F	F	226	256	387	273
	401 Business)		R	38.9	46.0	D	D	152	199		
		0.0	L	103.2	127.2	F	F	381	503		
		SB	T	75.8	76.6	E	E	163	216		
		NB	R LTR	42.1 177.9	29.4 ##	D F	C F	338 45	307 158		
	Old Rogers	EB	L	10.1	9.6	В	A	3	3		
STOP	Road/School Street at South Main Street (US 401 Business)	WB	L	9.8	12.6	A	В	5	0		
		SB	LTR	115.3	##	F	F	35	88	144	131
		NB	LTR	7.8	7.3	Α	Α	0	0	_	
STOP	Driveway/Access C	WB SB	LTR LT	8.9 7.2	8.6 7.2	A A	A	0	0		
STOP	Redford Place Drive at School Driveway	WB	LR	11.9	10.8	В	В	33	5		
				0.0	4.0	Α.					
		Overa NB	ll LTR	3.8 4.1	4.2	A	A	29	26	45	17
abla	Redford Place Drive at Access A/Access B	WB	LTR	4	3.8	A	A	3	2	31	23
	Access AMCCess D	SB	LTR	3.4	4.3	A	A	15	37		
	Volume Street at Assess	EB NB	LTR LT	3.6 8.5	4.1 9.2	A A	A	3	3 8		
STOP	Young Street at Access D	EB	LR	15.7	24.0	C	C	20	25		
		Overa		10.2	10.9	В	В			, , , , , , , , , , , , , , , , , , ,	
_	110 404 -4 1/ 01	WB	Т	6.6	6.8	Α	Α	61	61	254	166
	US 401 at Young Street (North)		R	6.0	8.9	Α	Α	46	137	140	134
_	(140141)	EB	L	0.1	0.1	Α	Α	0	0	120	168
		SB	R	23.2	21.4	С	С	150	160	191	194
		Overa	all T	18.0 7.6	46.4 10.2	B A	D B	72	264	158	764
	US 401 at Young Street	EB	R	18.0	60.0	В	E	324	1148	140	336
	(South)	NB	R	26.3	89.0	С	F	252	551	324	378
		WB	L	0.1	0.1	A	A	0	0	94	152
_		Overa		2.7	3.6	Α	Α				
	US 401 Eastern U-Turn	WB	T	4.2	6.4	Α	Α	102	116	185	149
		EB	U	0.6	0.4	A	A	0	0	466	318
	1	Overa	all	2.3	3.0	Α	Α				
•	US 401 Western U-Turn	EB	Т	3.2	3.6	Α	Α	56	199	69	536

= Delay exceeds 300 seconds



^{*}Maximum queue extends off the SimTraffic network and may be longer than recorded

Traffic Analysis: Build without Access C

February 2, 2023

10.2 2028 BUILD IMPROVED WITHOUT ACCESS C

As noted in Section 5.0, the Rolesville LDO requires that any study area intersections that operate at LOS F and where the delay in the Build scenario increases by more than 5% when compared to the No-Build scenario should be investigated for mitigation. With the addition of traffic generated by the proposed development, the northbound School Street and southbound Old Rogers Road approach of the South Main Street at Old Rogers Road/School Street intersection increases in delay by greater than 5%. If high delays are experienced on the stop-controlled approaches, drivers may opt for alternative routes. Even so, the intersection was evaluated for potential improvements to meet the requirements of the Rolesville LDO:

- The installation of a traffic signal would improve the LOS of the side streets significantly. This, however, is
 not anticipated to be permitted by NCDOT due to the proximity of the intersection to the adjacent signalized
 intersection of South Main Street at Redford Place Drive/Rogers Road. In addition, the low traffic volumes
 on the side-street approaches of Old Rogers Road and School Street are not anticipated to meet the
 warrants for the installation of a traffic signal included in the Manual on Uniform Traffic Control Devices
 (MUTCD).
- The construction of dedicated left-turn turn lanes on Old Rogers Road and School Street reduces delay but
 does not mitigate the impact of the proposed development. This is attributed to low volumes of traffic on the
 side-street approaches and high through volumes on South Main Street. The installation of turn lanes may
 also impact adjacent property owners. As a result, the installation of turn lanes on Old Rogers Road and
 School Street is not recommended.
- Converting the southbound approach of Old Rogers Road to right-in/right-out access by installing channelization was shown to reduce delays on the side streets such that School Street is anticipated to operate at LOS C and Old Rogers Road is anticipated to operate at LOS D during the PM peak hour. This would require left turns from Old Rogers Road to be redirected to Rogers Road and use the traffic signal at the intersection of South Main Street at Redford Place Drive/Rogers Road; increasing travel time for existing vehicles on the Old Rogers Road approach. Furthermore, the restriction of access without the installation of a median has only limited effectiveness. As a result, the restriction of access is not recommended.

Therefore, no improvements are recommended at the South Main Street at Old Rogers Road/School Street intersection in conjunction with this development. Consideration should be made for limiting the southbound Old Rogers Road approach to right-in/right-out access in the future.

10.2.1 Proposed Improvements By Others

This study assumes that Access D, from the proposed development to Young Street, is constructed by others. Based on the findings of this study, the following improvements are recommended for this access point:

Young Street at Access D

- Construct Access D as a full-movement access point
- Construct Access D with one ingress lane and one egress lane with 100 feet of internal protective stem
- Provide a northbound left turn lane with 75 feet of full-width storage and appropriate taper

The Build Improved capacity analysis results are shown in Table 9.



Traffic Analysis: Build without Access C February 2, 2023

Table 9: 2028 Build Improved without Access C Level of Service and Delay

	Intersection	Approach	Lane Group	(Sec./ven.) (LOS)				Queue et)	Max. Obs. Queue (feet)		
	Jonesville Road at			AM	PM	AM	PM	AM	PM	AM	PM
STOP		WB	LR	12	13.7	В	В	25	25	103	80
	Prides Crossing	SB	L L	7.6	8	A	A	0	3	30	38
		Overa	ll L	30.2 73.6	46.9 49.7	C E	D D	172	186	AM 103 30 198 166 244 106 274 997 225 449 876 286 495 382 215 87 111 88 444 665 136 199 1849 350 85 300 1487 275 1387 273 428 231 292 413 450 142 87 161 136 0 29 3 102	199
		EB	TR	63.6	46.5	E	D	114	147		217
			L	92.6	92.1	F	F	243	541		526
	South Main Street at	WB	TR	59.0	43.2	Е	D	56	69		200
	Virginia Water Drive – Extension		L	86.5	105.5	F	F	233	269	274	275
		NB	Т	16.7	49.5	В	D	595	1131		1114*
			R	9.1	22.3	A	С	66	121		225
		SB	L T	67.4 16.3	73.8 16.4	E B	E B	77 269	181 174		432 787
		SB	R	8.4	10.4	А	В	8	174		374
		Overa		48.9	43.7	D	D	0	17	200	374
			L	123.1	75.3	F	E	586	455	495	449
		EB	Т	56.7	48.4	Е	D	137	81	382	209
			R	40.9	29.8	D	С	212	93		134
			L	82.1	92.8	F	F	74	121	1	130
	South Main Street at	WB	T	78.7	86.2	E	F	87	121	AM I 103 30 198 6 166 2 244 5 106 2 274 9 997 1 225 2 449 2 876 3 382 2 215 87 111 88 444 2 665 1 136 3 199 2 1849 1 350 3 85 3 300 1487 3 275 1387 18 292 2 413 450 35 26 28 38 62 29 3 102	179
	Realigned Burlington Mills Road		R L	54.0 108.9	37.2 72.5	D F	D E	58 267	65 147		105 475
	Time riodd	NB	T	20.4	26.6	C	C	450	1139		1006
		IND	R	8.2	7.6	A	A	11	5		300
			L	78.5	84.3	E	F	81	117		200
		SB	Т	31.2	43.4	С	D	770	908	1849	1527
			R	4.0	4.0	Α	Α	51	48	350	350
STOP	South Main Street at Old Burlington Mills Road	SB	R	22.1	20.2	С	С	5	18	85	185
	_	Overa	1	64.0	73.8	E	Е				
		EB	L	82.4	99.2	F	F	484	752		300
	_		TR	19.5	26.7	B F	C F	432 202	594	AM F 103 8 30 3 198 1 166 2 244 5 106 2 274 2 997 11 225 2 449 4 876 7 286 3 495 4 382 2 215 1 87 1 111 1 88 1 444 4 665 10 136 3 199 2 1849 13 350 3 428 3 231 2 242 1 141 1 300 3 1487 3 275 2 1387 2 428 3 38	3730
	Redford Place	WB	L TR	89.6 67.8	108.0 94.9	E	F F	1065	294 1130		275 1827*
	Drive/Rogers Road at		L	121.0	107.8	F	F	415	277		268
	South Main Street (US 401 Business)	NB	T	91.5	104.6	F	F	226	256		322
			R	38.9	46.0	D	D	152	199		298
			L	103.2	127.2	F	F	381	503		296
		SB	Т	75.8	76.6	Е	Е	163	216	413	595
			R	42.1	29.4	D	С	338	307		308
	Old Rogers	NB	LTR	177.9	##	F	F	45	158		276
STOP	Road/School Street at	EB	L	10.1	9.6	В	A	3	3		131
	South Main Street (US 401 Business)	WB SB	L LTR	9.8 115.3	12.6 ##	A F	B F	5 35	0 88	1	200 254
		NB	LTR	7.8	7.3	A	A	0	00		0
STOP	School Street at School	WB	LTR	8.9	8.6	A	A	0	0		31
	Driveway/Access C	SB	LT	7.2	7.2	Α	Α	0	0		0
STOP	Redford Place Drive at School Driveway	WB	LR	11.9	10.8	В	В	33	5	102	42
	T	Overa		3.8	4.2	A	A	00	00	40	00
abla	Redford Place Drive at	NB WB	LTR LTR	4.1	3.8	A	A	29 3	26 2		36 23
•	Access A/Access B	SB	LTR	3.4	4.3	Α	Α	15	37	26	47
		EB	LTR	3.6	4.1	A	A	3	3		29
STOP	Young Street at Access D	NB	L	8.5	9.2	A	A	3	8		58
-	U	EB Overa	LR II	15.6 10.2	23.4 10.9	C B	C B	20	25	02	58
	 		т	6.6	6.8	А	А	61	61	242	195
	US 401 at Young Street	WB	R	6.0	8.9	A	A	46	137	198	154
	(North)	EB	L	0.1	0.1	A	Α	0	0		179
		SB	R	23.2	21.4	С	С	150	160	189	230
		Overa		18.0	46.4	В	D				
	US 401 at Young Street	EB	T	7.6	10.2	A	В	72	264		760
	(South)		R	18.0	60.0	В	E	324	1148		332
	' /	NB WB	R	26.3	89.0	C	F	252	551		372
-		WB Overa	L L	0.1 2.7	0.1 3.6	A A	A A	0	0	/8	159
	US 401 Eastern U-Turn	WB	 T	4.2	6.4	A	A	102	116	194	138
	JO 101 Edotom O-Tum	EB	Ü	0.6	0.4	A	A	0	0		267
_		Overa	_	2.3	3.0	A	A				
	US 401 Western U-Turn	EB	Т	3.2	3.6	Α	Α	56	199	88	595
	i ====================================	WB	U	0.2	0.4	Α	Α	0	0	142	591

^{## =} Delay exceeds 300 seconds



^{*}Maximum queue extends off the SimTraffic network and may be longer than recorded

Comprehensive Recommendations February 2, 2023

11.0 COMPREHENSIVE RECOMMENDATIONS

Based on the findings of this study, specific improvements have been identified and some should be completed as part of the proposed development. These improvements are valid for both scenarios with and without Access C.

Jonesville Road at Prides Crossing

No improvements are recommended at this intersection

South Main Street at Realigned Burlington Mills Road

• No improvements are recommended at this intersection

Redford Place Drive/Rogers Road at South Main Street

No improvements are recommended at this intersection

Old Rogers Road/School Street at South Main Street

• No improvements are recommended at this intersection

School Street at School Driveway/Scarboro Driveway/Access C

- If Access C is constructed, the driveway should be constructed with one ingress lane and one egress lane with 100 feet of internal protective stem
- If Access C is not pursued, it is recommended that the connection be removed from the Town's Community Transportation Plan (CTP)

Redford Place at School Driveway

No improvements are recommended at this intersection

US 401 at Young Street

No improvements are recommended at this intersection

US 401 WB U-Turn

No improvements are recommended at this intersection

US 401 EB U-Turn

No improvements are recommended at this intersection

South Main Street at Virginia Water Drive Extension

No improvements are recommended at this intersection



Comprehensive Recommendations February 2, 2023

Redford Place Drive at Access A/Access B

 Construct Access A and Access B with one ingress lane and one egress lane at the existing roundabout along Redford Place Drive south of the School Driveway intersection. Both intersections should have a minimum internal protective stem of 100 feet

Young Street at Access D

It is recommended that Access D be constructed by others as a full-movement access point, with one ingress lane and one egress lane with 100 feet of internal protective stem. A northbound left turn lane should be provided in conjunction with construction of the access point with 75 feet of full-width storage and appropriate taper.

These recommendations are illustrated in Figure ES-1.

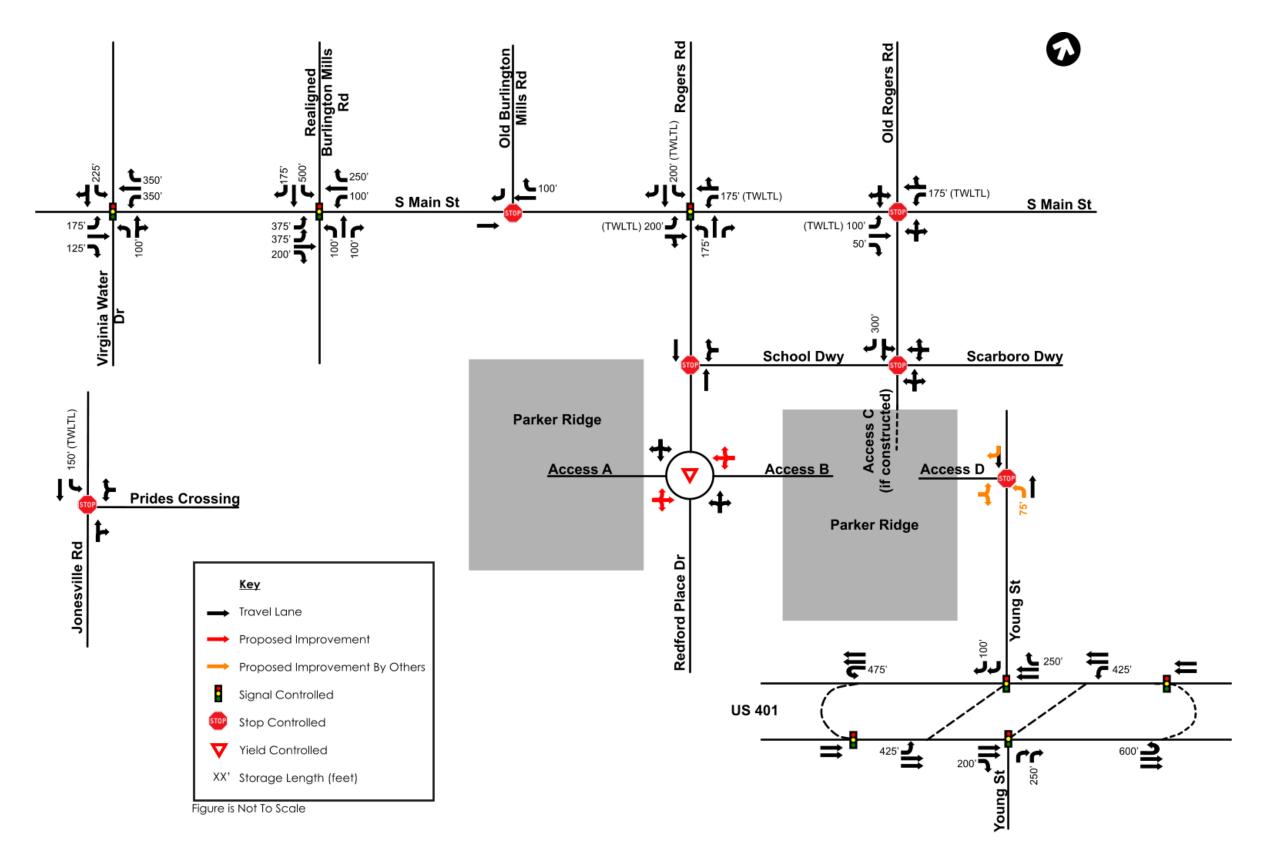


Comprehensive Recommendations February 2, 2023

Figure 15: Recommended Improvements



Comprehensive Recommendations February 2, 2023



References February 2, 2023

12.0 REFERENCES

¹ NCDOT Functional Classification Map,

http://ncdot.maps.arcgis.com/home/webmap/viewer.html?layers=029a9a9fe26e43d687d30cd3c08b1792

² 2020 NCDOT Average Daily Traffic Volumes,

https://ncdot.maps.arcgis.com/apps/webappviewer/index.html?id=964881960f0549de8c3583bf46ef5ed4

³ Trip Generation (11th Edition), Institute of Transportation Engineers (ITE), September 2021.

⁴ *Highway Capacity Manual 6th Edition: A Guide for Multimodal Mobility Analysis*. Washington D.C.: Transportation Research Board, 2016.

⁵ **NCDOT Capacity Analysis Guidelines**. North Carolina Department of Transportation (NCDOT), March 2022, https://connect.ncdot.gov/resources/safety/Congestion%20Mngmt%20and%20Signing/Standards%20-%20Capacity%20Analysis%20Guidelines.pdf

⁶ **Draft NCDOT Capacity Analysis Guidelines: Best Practices.** North Carolina Department of Transportation (NCDOT), March 2022.

https://connect.ncdot.gov/resources/safety/Congestion%20Mngmt%20and%20Signing/Best%20Practices%20-%20Capacity%20Analysis%20Guidelines.pdf

⁷ **Land Development Ordinance**. Town of Rolesville, June 1, 2021, https://www.rolesvillenc.gov/code-ordinances

⁸ Manual on Uniform Traffic Control Devices (MUTCD). Federal Highway Administration, May 2012, https://mutcd.fhwa.dot.gov/kno 2009r1r2.htm

13.0 APPENDIX

- Scoping Correspondence
- Site Plan
- Raw Traffic Count Data
- Approved Development Information
- Traffic Volume Calculations
- Synchro Files
- Synchro & SimTraffic Reports
- SIDRA files



Parker Ridge MA 22-03

ROLESVILLE BOARD OF COMMISSIONERS MARCH 7, 2023

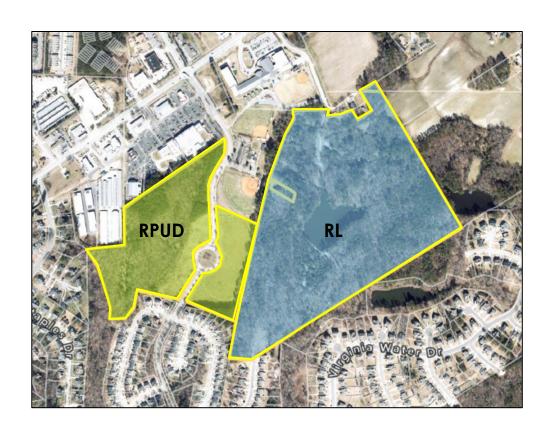
Site and Surrounding Area

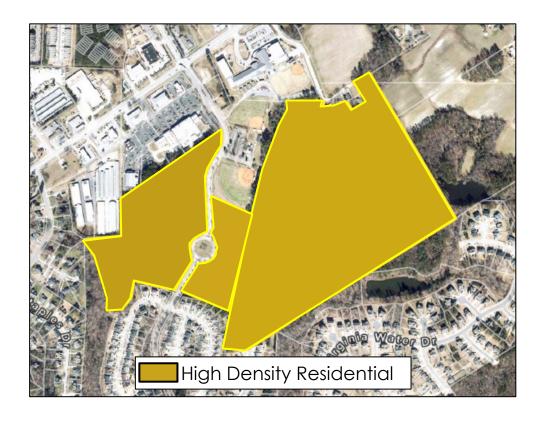
- 0, 82, and 120 School Street;
- 201 Redford Place Drive
- ▶ 88 total acres



Existing Zoning

Future Land Use

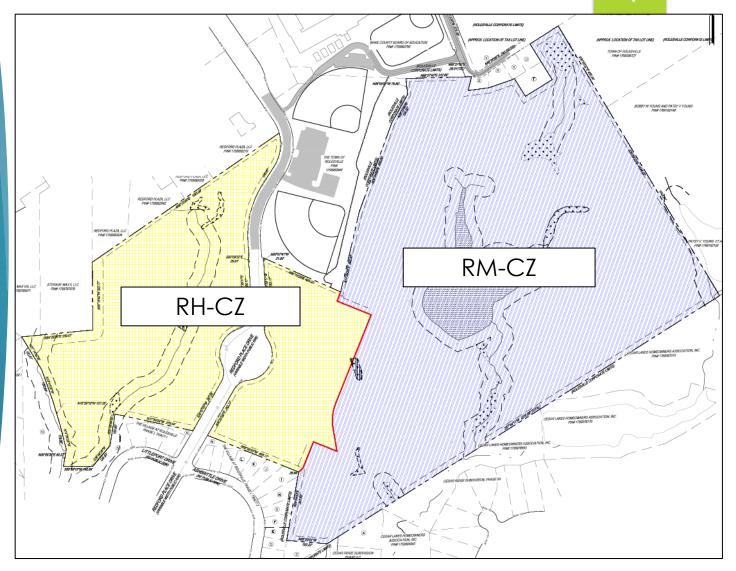




Residential High Density Conditional Zoning and Residential Medium Density Conditional Zoning

Eleven Conditions

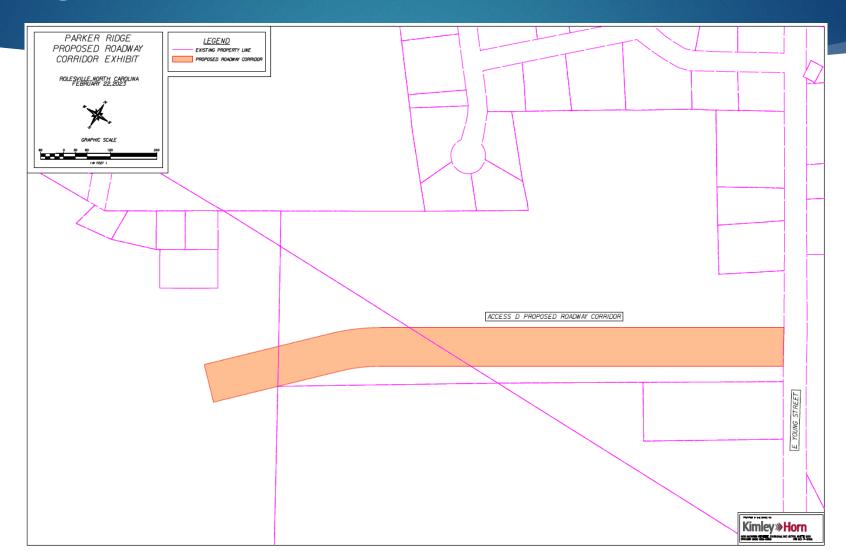
- RH prohibited uses
 - family care facility, live-work unit, residential care, and telecom tower
- Max of 120 townhomes in RH district
- RM prohibited uses
 - family care facility and telecom tower
- Max of 170 single family detached homes in RM district



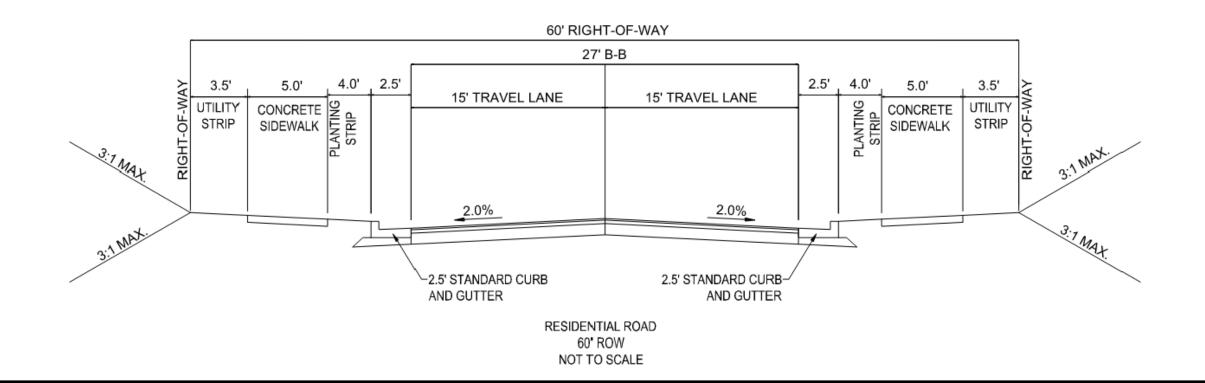
Updated Concept Plan



Young Street Connection

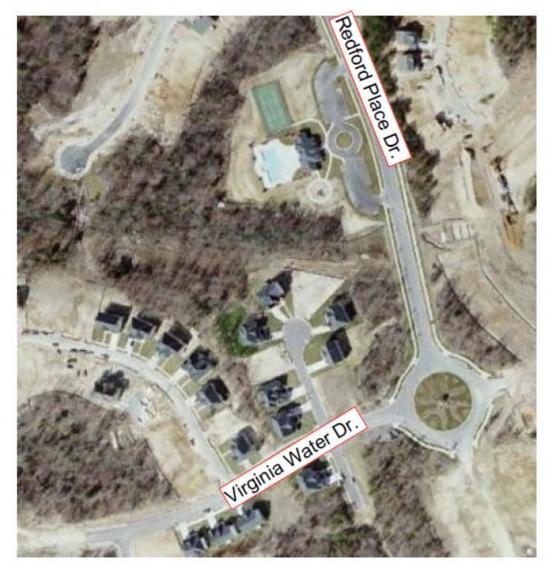


Young Street Connection



Redford Place Drive at Virginia Water Drive

<u>Feb 2005</u>

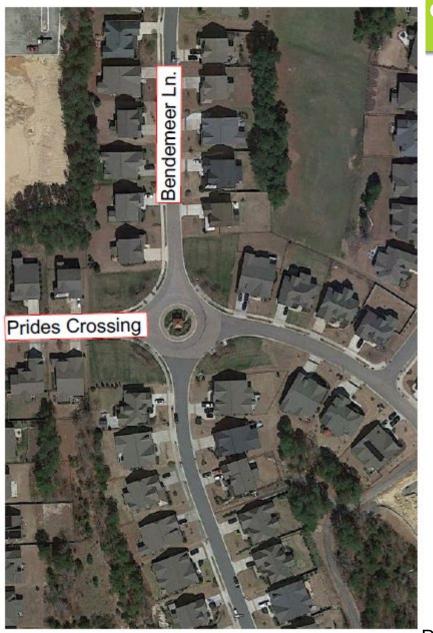




Prides Crossing at Bendemeer Lane

March 2013 March 2022

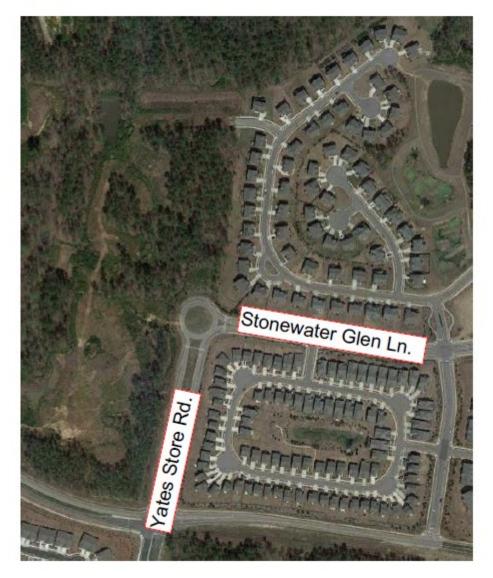




9

Yates Store Road at Stonewater Glen Lane

April 2013 May 2022



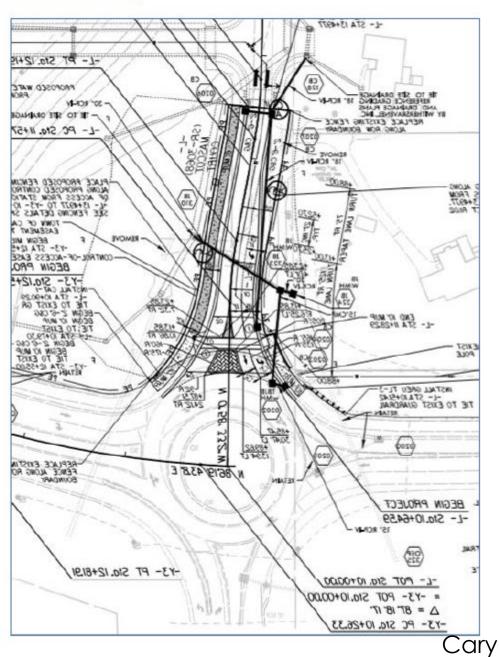


Morrisville Parkway at NC 540 NB Ramps

March 2022

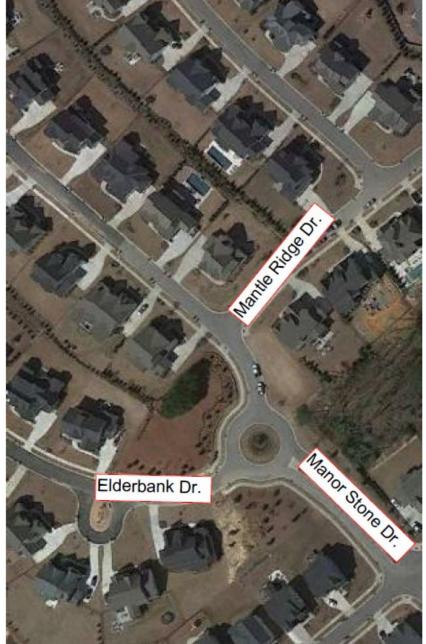
Plans for 4th Leg





March 2022





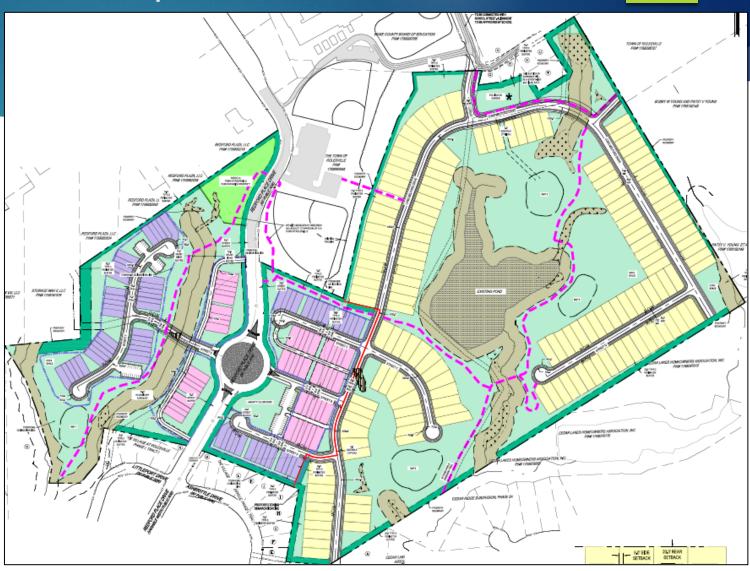
Conditions – Operation Coming Home



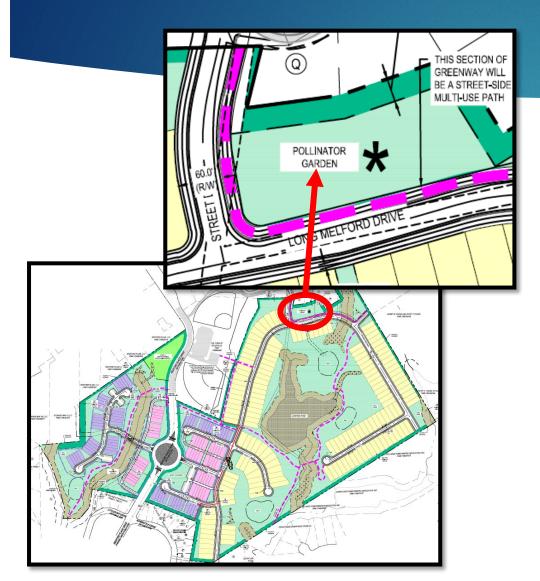


Conditions and Concept Plan

- Development must conform with Concept plan
- Perimeter buffers must be provided as shown on plan and shall contain 6' fences



Conditions – Pollinator Garden





Architectural Commitments

Single Family Detached

- 2 car garage;
- Garage doors windows;
- Raised ground floor elevation
- Minimum 24" stone or masonry water table;
- Masonry as predominant first floor finish or 2 types of siding
- Roof pitches between 5 on 12 and 12 on 12;
- Roofs shall be asphalt shingles, metal, copper or wood;
- Minimum 12" front overhangs;
- Covered stoop or porch at least 20 sf and 5 ft deep;
- Shutters or window trim on front façade windows;
- Minimum 64 sf rear patio;
- At least one window on each side elevation;
- Adjacent homes cannot have the same façade or color; and
- Varied color palette throughout the subdivision.

Townhomes

- 1 or 2 car garage;
- Minimum 24" stone or masonry water table;
- Masonry as predominant first floor finish or 2 types of siding
- Roofs shall be asphalt shingles, metal, copper or wood;
- Minimum 12" front overhangs;
- Covered stoop or porch at least 20 sf and 5 ft deep;
- Shutters or window trim on front façade windows;
- Minimum 64 sf rear patio;
- At least one window on each side elevation (excluding interior units);
- Adjacent units cannot have the same color; and
- Varied color palette throughout the subdivision.









Architectural Commitments



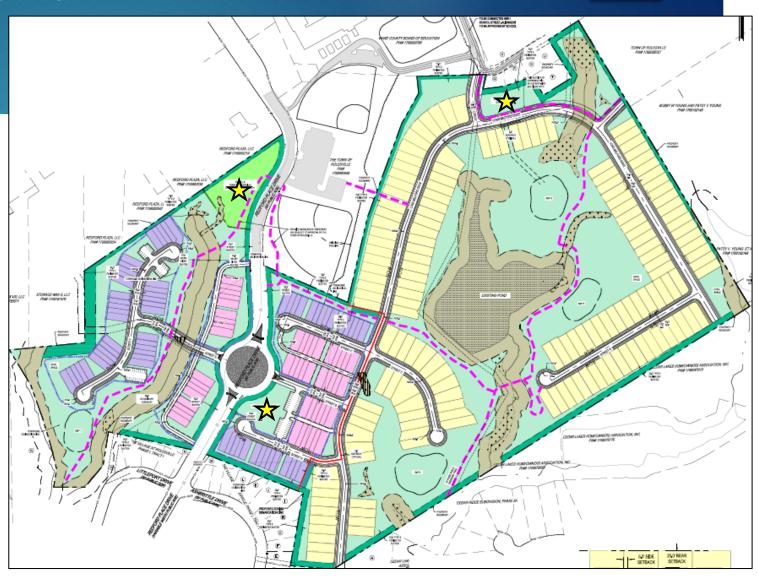
Architectural Commitments



Architectural Commitments

Parks and Recreation

- ▶ 1.5 acres for park expansion
- ▶ 46.25 acres of open space
- ≥ 2.8 miles of sidewalks
- 1.5 miles of public greenway trails
- Clubhouse and pool
- Pollinator garden
- Preservation and greenway activation of lake





Lake Amenity with Public Greenway