





# NCDOT Traffic Impact Analysis Need Screening / Scoping Request



- The proposed site access is located within 1,000 feet of an interchange.
- The Applicant requests for a new or modified control-of-access break.
- The Applicant requests for a new or modified median break.

\_\_\_\_\_

Applicant's Signature
Print Name
Date

**Site Plan/Vicinity Map Requirement for TIA Need Screening:** While the site plan may not be finalized during the TIA scoping stage, the graphic representation of the proposed development shall provide adequate details on the development scope and context. More specifically, the site plan/map shall clearly show the location and type of each access point, spacing to adjacent and opposing driveways or intersections, internal street network, proposed buildings/parcels with their anticipated uses and sizes at full build-out and, if applicable, any nearby interstate, US, NC or Secondary Roads (SR).

**Project Name:** \_\_\_\_\_ **Project Reference Number:** \_\_\_\_\_

- A TIA is Required by the Local Government.** In addition, the study area is expected to include NCDOT maintained transportation facilities.
- A TIA is Required by NCDOT,** per the [Policy on Street and Driveway Access to North Carolina Highways](#).

If either or both of the boxes above are checked, the Applicant/TIA Consultant is hereby requested to fill out as much as possible of the following TIA scoping checklist, and return it along with the supporting documents to NCDOT prior to the scoping meeting.

- A TIA is NOT required.** This decision is based on the development information presented above. Changes in the development plan will require re-evaluation of the TIA need, and may necessitate a TIA. The Applicant should inform the District Engineer of any significant changes in a timely fashion to avoid delays or rejections of the driveway permit / encroachment agreement applications.



# NCDOT Traffic Impact Analysis Need Screening / Scoping Request



### Additional Comments:

The TIA need decision is made by the NCDOT Division \_\_\_\_\_ District \_\_\_\_\_ on \_\_\_\_\_.

\_\_\_\_\_  
NCDOT District Representative's Signature

Email concurrence may be used in lieu of the signature.

\_\_\_\_\_  
Print Name



# NCDOT TIA Scoping Checklist



**Project Name:** Wakemed Rolesville Emergency Department

**TIA Scoping Date:** \_\_\_\_\_

**TIA Need Screening Forms are Attached.** Project Reference #: \_\_\_\_\_ Decision Date: \_\_\_\_\_

**Site Plan and Access**

Provide a site plan illustrating site access, internal and external roadways, buildings and land uses.  
Refer to NCDOT's [Policy on Street and Driveway Access to North Carolina Highways](#) pages 14 and 15 for site plan requirements.

Identify site access.

New Access	On Road	Access Type		Driveway Spacing		
	Road Name	Permitted Movements	Traffic Control	Distance (ft)	Direction	Nearest Intersection / Access
Access A	Granite Falls Ext.	Conventional Full-Mvmt	2-Way Stop	200	North	Burlington Mills
Access B	Granite Falls Ext.	Conventional Full-Mvmt	2-Way Stop	400	North	Burlington Mills
Access C						
Access D						
Access E						
Access F						
Access G						
Access H						
Existing Access	Existing Intersection of		Access Modification	Proposed Interconnectivity (If Applicable)		
	Road A	Road B		Connector #	Road Connected	Adjacent Development
Access 1			Please Select	Connector 1		
Access 2				Connector 2		
Access 3				Connector 3		
Access 4				Connector 4		

- Additional access clarifications and provisions (e.g., proposed control-of-access or median breaks, modifications of existing access, loading/unloading area access, bike/pedestrian accommodation).
- This site involves the extension of Granite Falls Boulevard from it's current southern terminus to Burlington Mills Road.

**Proposed K-12 School Site**

- NCDOT [MSTA School Traffic Calculator](#) for Select School Type shall be used.
- Peak Hour Factors (PHFs) shall be adjusted/weighted for new school trips (0.5 PHF by default).
- Internal school circulation analysis is required, and should be submitted in advance or concurrent with the TIA submittal.
- Clarify traffic operation plans (e.g. traffic circulation pattern, pedestrian access, drop-off/pick-up zone location and configuration, queue storage area and, if applicable, staggered start times).





# NCDOT TIA Scoping Checklist



## Trip Distribution

- Trip distribution diagrams are submitted concurrently with this document (attach separate sheets).
- Trip distribution diagrams will be submitted separately, along with supporting information, to the District Engineer for review and approval prior to capacity analysis. The trip distribution shall be based on the current and anticipated traffic patterns, as well as instructions noted below.

If required by the District Engineer, the following additional diagrams shall also be submitted:

- Mixed-Use Developments (separate diagrams for residential, commercial, and office trips)
- Inter-Development Trips (if 'internal' trips cross public streets)
- Pass-By Trips
- Diverted Trips
- Each Analysis Period

## Mode Split

- Provide Data Source and Justification

Mode Period	Auto		
AM Peak	%	%	%
PM Peak	%	%	%
Daily	%	%	%
	%	%	%

- Identify proper infrastructure and accommodation for other modes of travel.

## Analysis Peak Periods:

- Weekday AM Peak 7:00 - 9:00
- Weekday PM Peak 4:00 - 6:00
- Weekday Midday Peak \_\_\_\_\_
- Weekday PM School Peak \_\_\_\_\_
- Weekend \_\_\_\_\_ Peak \_\_\_\_\_
- Other \_\_\_\_\_



# NCDOT TIA Scoping Checklist



## Study Area Intersections and Data Collection

The study area shall include the site access intersections (both new and existing) identified under “Site Plan and Access” on page 1, as well as the following external and, if applicable, internal intersections.

External Intersection	Intersection of		Traffic Control	Intersection Turning Movement Counts			Notes
	Road A	Road B		New / Existing	Date of Counts	Growth Adjustment	
#1	Burlington Mills	Forestville	Signal	Require New Counts			
#2	Burlington Mills	Old Burlington M	2-Way Stop	Require New Counts			
#3	Burlington Mills	S. Main Street	Signal	Require New Counts			
#4							
#5							
#6							
#7							
#8							
#9							
#10							
#11							
#12							

Internal Intersection	Intersection of		Access Type		Intersection Spacing		
	Road A	Road B	Traffic Control	Permitted Movements	Distance (ft)	Direction	Nearest Intersection
#101			Please Select	Please Select		Please Select	
#102							
#103							
#104							
#105							

The following data will be collected:

- New traffic turning movement counts in  15-min intervals  5-min intervals (near schools)  
 Unless otherwise noted above, new traffic counts shall be collected at the existing study intersections during the analysis periods. Weekday counts shall avoid Mondays, Fridays, holidays, school breaks, road closures, and major weather events.
- To account for the impact of existing and/or proposed school traffic, PHFs will be adjusted for:  
 intersections numbered: \_\_\_\_\_  
 and access points numbered: \_\_\_\_\_
- Traffic Forecast Data for TIP: \_\_\_\_\_
- Roadway/Intersection Configuration & Traffic Control
- Traffic Signal Phasing & Timing Data
- Crash Data: \_\_\_\_\_ Period: \_\_\_\_\_
- Other:

Note that in the future (2037) scenario, the intersection of Granite Falls Boulevard at Rogers Road will be added to the study area. New traffic counts in 15-minute increments will be collected at this intersection.



# NCDOT TIA Scoping Checklist



**Future Year Conditions**

Project Build-Out Year: 2027

Future Analysis Year(s): 2037

Identify below any funded/committed future transportation improvements, as well as any approved but incomplete developments near the site.

Funded STIP / Local CIP Project	Project Description	Year Complete	
U-6241	Burlington Mills Road Realignment	2026	
Nearby Approved Development	Location	Future Land Use (exclude any completed phases)	Committed Improvements
Wallbrook	S. Main Street	Mixed-Use	Yes
Pearce Farm	Forestville Road	Residential	Yes
Wallbrook Flats	Burlington Mills Road	Residential	Yes

Annual Growth Factor: 1 %

Justification/Data Source: Count station along S. Main Street

**Local Comprehensive Transportation Plan Compliance**

Identify Applicable Local Transportation Planning Documents

Identify Applicable Roadways inside the Study Area

Road Name	Classification	Speed Limit	Proposed Cross-Section	Proposed Right-of-Way	Compliance Requirements	Affect Study Intersection #



# NCDOT TIA Scoping Checklist



## Study Method

The traffic analysis shall follow the current [NCDOT Congestion Management Capacity Analysis Guidelines](#), [Policy on Street and Driveway Access to North Carolina Highways](#), and use the current approved version of analysis software (e.g. Synchro/SimTraffic, HCS, Sidra Intersection, TransModeler).

The study shall include the following analysis scenarios for each analysis period.

1. Existing Conditions
2. Future No-Build Conditions (existing + background growth + approved developments + committed or funded improvements)
3. Future Build Conditions (future no-build + site trips)
4. Future Build with Improvements Conditions (future build traffic with improvements to mitigate the proposed development's impacts) and, if applicable:
5. TIP Design Year Analysis \_\_\_\_\_
6. Alternative Access Scenario (without proposed control-of-access or median break / modification)

The following additional analysis/outputs should be provided as warranted:

- Signal Warrant Analysis for accesses/intersections \_\_\_\_\_
- Multi-Modal Level of Service Analysis
- School Loading Zone Traffic Simulation
- Phasing Analysis (scope separately as needed)
- Safety/Crash Analysis
- Control-of-Access Modification Justification
- Median Break / Modification Justification
- Other Future (2037) analysis with projected full build-out of the site and completed Granite Falls Blvd. ext.

## Submittals

In addition to the hardcopies required below, the TIA Consultant shall provide the District Engineer and, if required, the local government an electronic copy of the study documents, including the latest site plan, figures and appendices, in searchable PDF files and the original traffic analysis files (e.g., Synchro, HCS). To expedite review, the NCDOT electronic submittals shall also be delivered concurrently to:

- Div. Traffic Engr  Regional Traffic Engr  Congestion Management  Other \_\_\_\_\_

Submittals	NCDOT		Local Government	
	Electronic	Hardcopy	Electronic	Hardcopy
Trip Generation & Distribution	Required		Please Select	
Draft TIA Report	Required			
Final Sealed TIA Report	Required			

## Additional Comments (municipal TIA requirements, approved variations from NCDOT guidelines)

See attached for description of full-buildout of the site, the future analysis scenario, and trip generation.



# NCDOT TIA Scoping Checklist



## Agreement by All Parties

The undersigned agree to the contents and methodology described above for completing the required traffic impact analysis for the proposed development identified herein. Any changes to the above methodology contemplated by the Applicant or the TIA Consultant must be submitted to the District Engineer in writing. If approved by NCDOT, then such changes may be accepted for the TIA report. Subsequent revisions to the development plan (e.g. land use, density, site access, or schedule) may require additional scoping and analysis, and may modify the TIA requirements.

This agreement shall become effective on the date approved by NCDOT, and shall expire \_\_\_\_ months after the effective date or upon significant changes to the roadway network and/or development assumptions, whichever occurs first. Once expired, renewal or re-scoping will be required for subsequent TIA submittals.

## APPLICANT

	Tom Cavender	
Signature	Print Name	Date

## TIA CONSULTANT

	Matt Peach	
Signature	Print Name	Date

## LOCAL GOVERNMENT REPRESENTATIVE (If Applicable)

	Stephen Wensman	
Signature	Print Name	Date

Email concurrence may be used in lieu of the signature.

## NCDOT DISTRICT REPRESENTATIVE

Reviewed and approved by the NCDOT Division  5  District  1  on \_\_\_\_\_.

Signature	Print Name

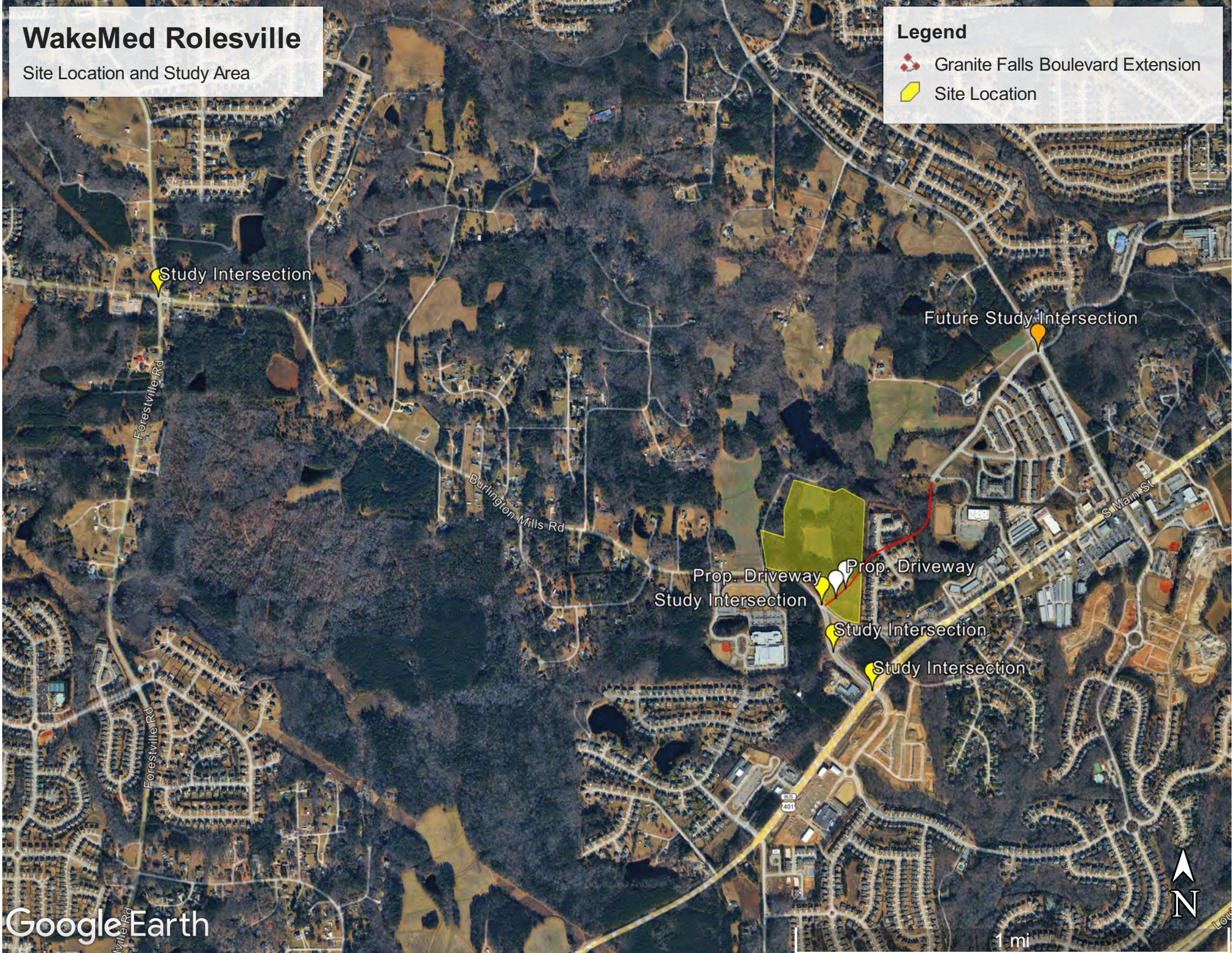
Email concurrence may be used in lieu of the signature.

# WakeMed Rolesville

Site Location and Study Area

## Legend

-  Granite Falls Boulevard Extension
-  Site Location

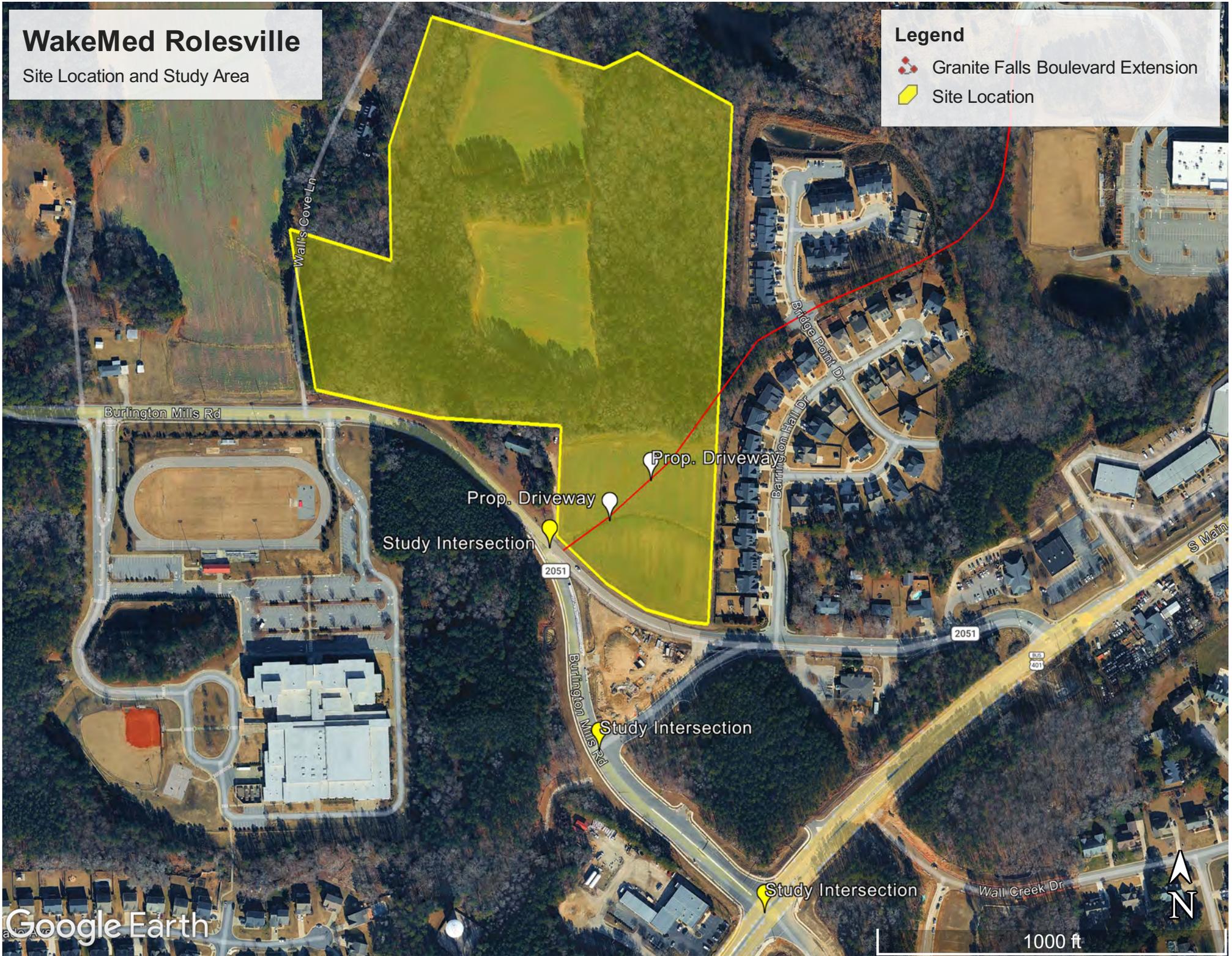


# WakeMed Rolesville

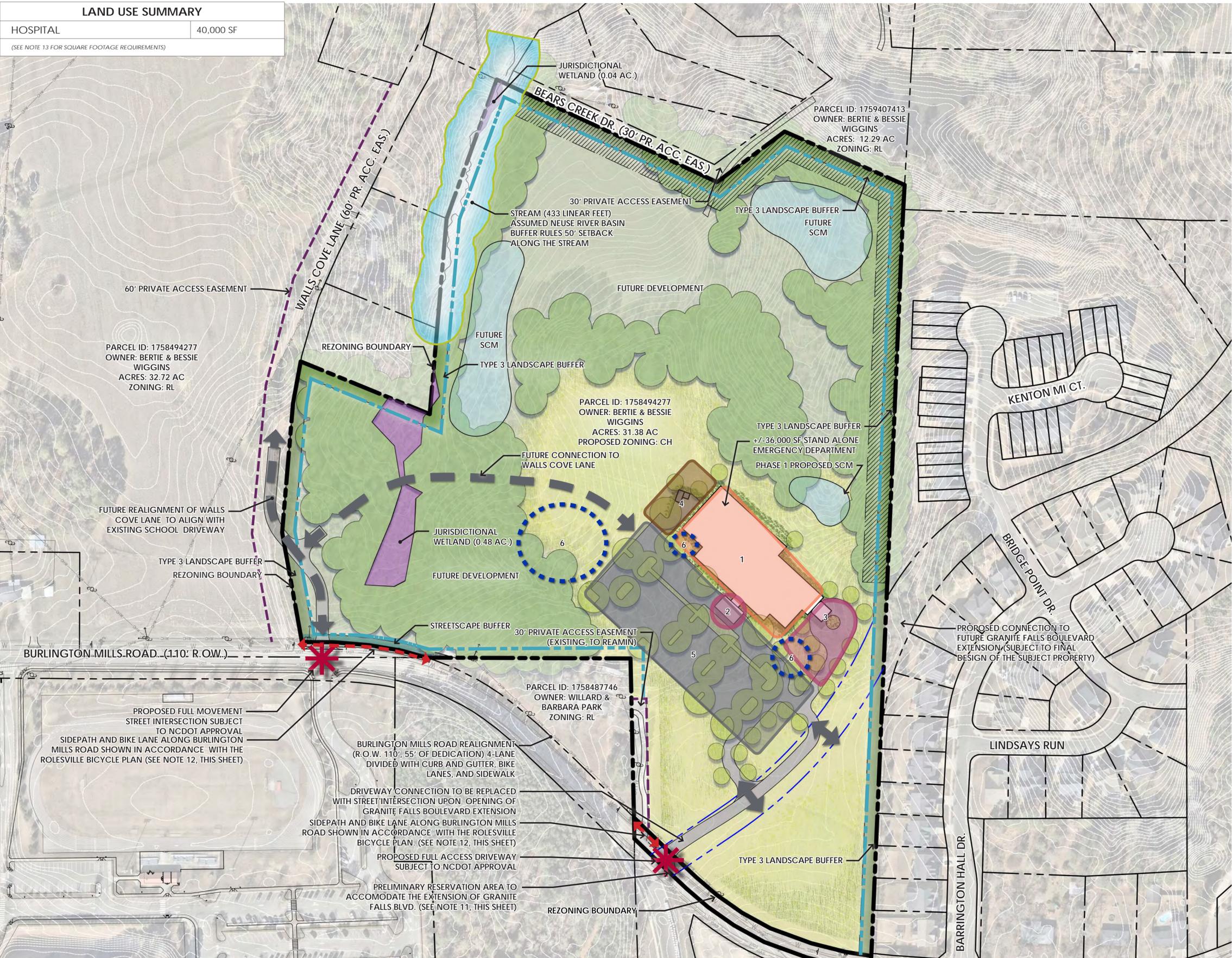
Site Location and Study Area

## Legend

-  Granite Falls Boulevard Extension
-  Site Location



LAND USE SUMMARY	
HOSPITAL	40,000 SF
<small>(SEE NOTE 13 FOR SQUARE FOOTAGE REQUIREMENTS)</small>	



**MASTER PLAN LEGEND:**

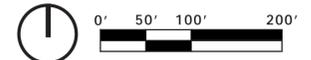
- PROPOSED FULL ACCESS DRIVEWAY/ STREET INTERSECTION
- PROPOSED INTERNAL/EXTERNAL STREET STUB LOCATIONS
- RIPARIAN BUFFER (SEE NOTE 1)
- PROPERTY SETBACKS/BUFFERS
- EASEMENT
- 15' TYPE 2 LANDSCAPE BUFFER
- 25' TYPE 3 C LANDSCAPE BUFFER
- 15' STREETSCAPE BUFFER (SETBACK FROM THE R.O.W.)
- PROPOSED STAND ALONE EMERGENCY DEPARTMENT BUILDING
- EMERGENCY DEPARTMENT AMBULANCE DROP OFF ZONE
- PATIENT EMERGENCY DROP-OFF/PICK-UP
- OUTDOOR SERVICE AREA/ LOADING DOCK
- SURFACE PARKING/ PATIENT DROP OFF ZONE
- OUTDOOR OPEN SPACE (See Note #9)
- (REQ. 1 SMALL OPEN SPACE TYPE MIN. 500 SF - 1.AC)
- (REQ. 1 MEDIUM OPEN SPACE TYPE MIN 1AC - 2.5AC)

**STREET TYPOLOGIES:**

- PRIVATE STREET (INTERNAL)
- WALLS COVE LANE - 24' TRAVELWAY (60' PRIVATE R.O.W.)
- GRANITE FALLS FUTURE EXTENSION - 2 LANE DIVIDED (60' R.O.W.)  
NOTE: SEE SHEET MP-06 FOR STREET TYPOLOGY SECTIONS
- BURLINGTON MILLS ROAD FUTURE BIKE LANES AND SIDEPATH

**MASTER LAND USE PLAN NOTES:**

1. Streams and wetland and jurisdictional determinations have been preliminarily mapped by Kimley-Horn and Associates. Applicability and status of these features will be confirmed and reviewed by NCDNR and the Army Corps of Engineers prior to change.
2. The proposed street network and typologies are preliminary and subject to change pending Town approval.
3. Stormwater management facilities may be shared independent or shared and will be built in phases as needed to support development within a given phase. All SCM's will meet the requirements of Wake Counties Stormwater Design Manual.
4. A 15' Type 2 Perimeter Buffer will be provided along all property boundaries adjacent to Residential high density.
5. A 25' Type 3 Perimeter Buffer will be provided along all property boundaries adjacent to Residential Low-Density (North, East, and West).
6. A 15' Streetscape Buffer will be provided along the Burlington Mills Road frontage (Set back from the Right-of-way)\* If the streetscape is disturbed or non-vegetated, the property owner or developer shall install and maintain the following vegetation per (section 6.2.2.2. Street Buffers).
7. Following requirements of the Town's Land Development Ordinance (section 6.2.1.1 Open Space), this Master Plan will provide (1) Small open space totaling 500 SF min. and (1) Medium open space totaling 1.0 acre min. This plan shall be provided at subdivision permitting process. Qualifying open space shall consist of but is not limited to: Plazas, Pocket Park, Open green space.
8. Height shall be measured per the standards of the LDO. All uses within the proposed rezoning boundary shall not exceed the base height of (60' per Ordinance Document Approved January 7, 2025).
9. Following requirements of the Town's Land Development Ordinance (section 6.2.4.5 Vegetation Preservation), this Master Plan will provide a min. of 10% of all existing trees on site in good health (determined by a professional arborist) shall be preserved. \*Excluding non-native invasive plants as listed by the US Forest Service or the NC Forest Service.
10. Burlington Mills Road (Under Construction at the time of this application) will be realigned and the existing right of way is expected to be abandoned upon approval of the Town Board. Per Town policies and procedures. Thus, no land use buffer or streetscape buffer is required along this portion of the District Boundary.
11. Right of Way for the future extension of Granite Falls Blvd. will be provided through the subject property at such time as it is warranted - The extension will not be required with phase 1 development. This R.O.W. alignment is conceptual and shown for illustrative purposes only. The preliminary alignment shall be determined in conjunction with the site plan for the initial development phase.
12. Sidepath and bike lane along Burlington Mills Road are shown in accordance with the Town of Rolesville's Bicycle Plan. Final configuration is subject to Town review and approval. Should a fee-in-lieu option be permitted by the Town, the developer reserves the right to satisfy this requirement through that mechanism rather than through physical construction.
13. The maximum square footage allowed under this approved concept plan shall be 40,000 SF. Additional development density within the district will require a new concept plan application to be submitted for approval by the Town



**Kimley >> Horn**



REV DATE	SHEET
11/3/2025	MP-04

## **Long-Term (2037) Analysis**

Included in this TIA will be a long-term analysis intended to estimate the impacts associated with the following:

- The completion of Granite Falls Boulevard from Rogers Road to Burlington Mills Road.
- Future land uses that could be built on-site beyond what is currently proposed by the applicant.

This long-term analysis will include AM and PM peak hours for the following scenarios:

- 2037 No-Build;
- 2037 Build; and
- 2037 Build-Improved.

Forecasted conditions in 2037 will be determined using a 1% per year annual growth rate in addition to the approved developments. The following intersections will be included in this long-term analysis:

- Burlington Mills Road at Granite Falls Boulevard
- Granite Falls Boulevard at Site Driveways
- Granite Falls Boulevard at Rogers Road

To account for traffic shifting from Main Street onto Granite Falls Boulevard, and also to analyze the intersection of Granite Falls Boulevard at Rogers Road, new peak-hour turning movement counts will be collected at the following locations:

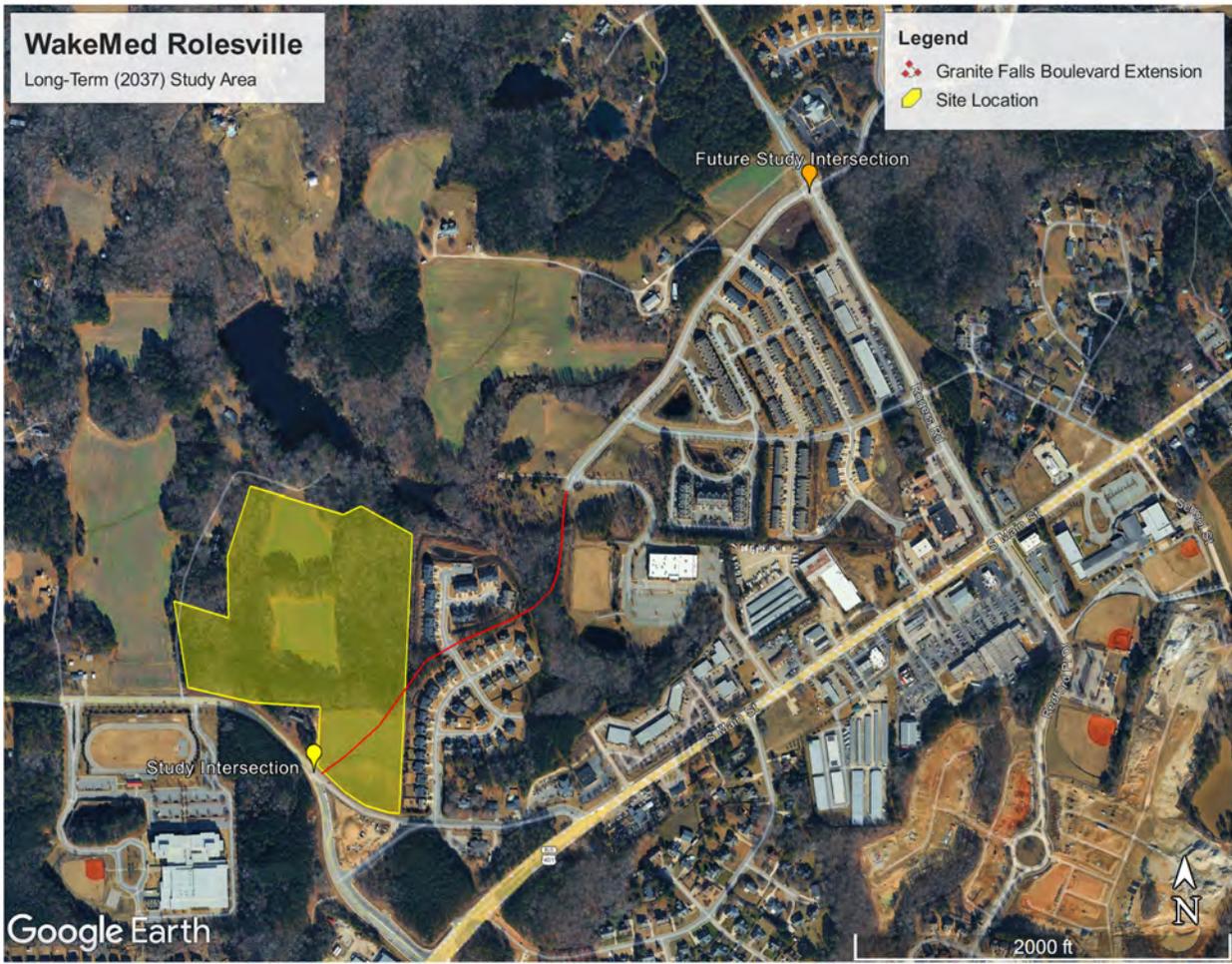
- Granite Falls Boulevard at Rogers Road
- Main Street at Rogers Road

It should be noted that a second driveway is shown on Burlington Mills Road across from the driveway to Rolesville Middle School. Traffic will be assigned to this driveway, but the driveway will not be included in this study. The intent of the long-term scenario is to (1) design the intersection of Granite Falls Boulevard at Burlington Mills Road for traffic that is generated by what may be the ultimate buildout of the site and (2) to analyze traffic with the Granite Falls Boulevard extension in place. If future phases of development are pursued and additional driveways are intended for Burlington Mills Road, a traffic study will be performed.

**WakeMed Rolesville**  
Long-Term (2037) Study Area

**Legend**

- Granite Falls Boulevard Extension
- Site Location



Future land uses are as follows:



This was determined using the breakdown that is attached.



# Future (2027) Trip Distribution

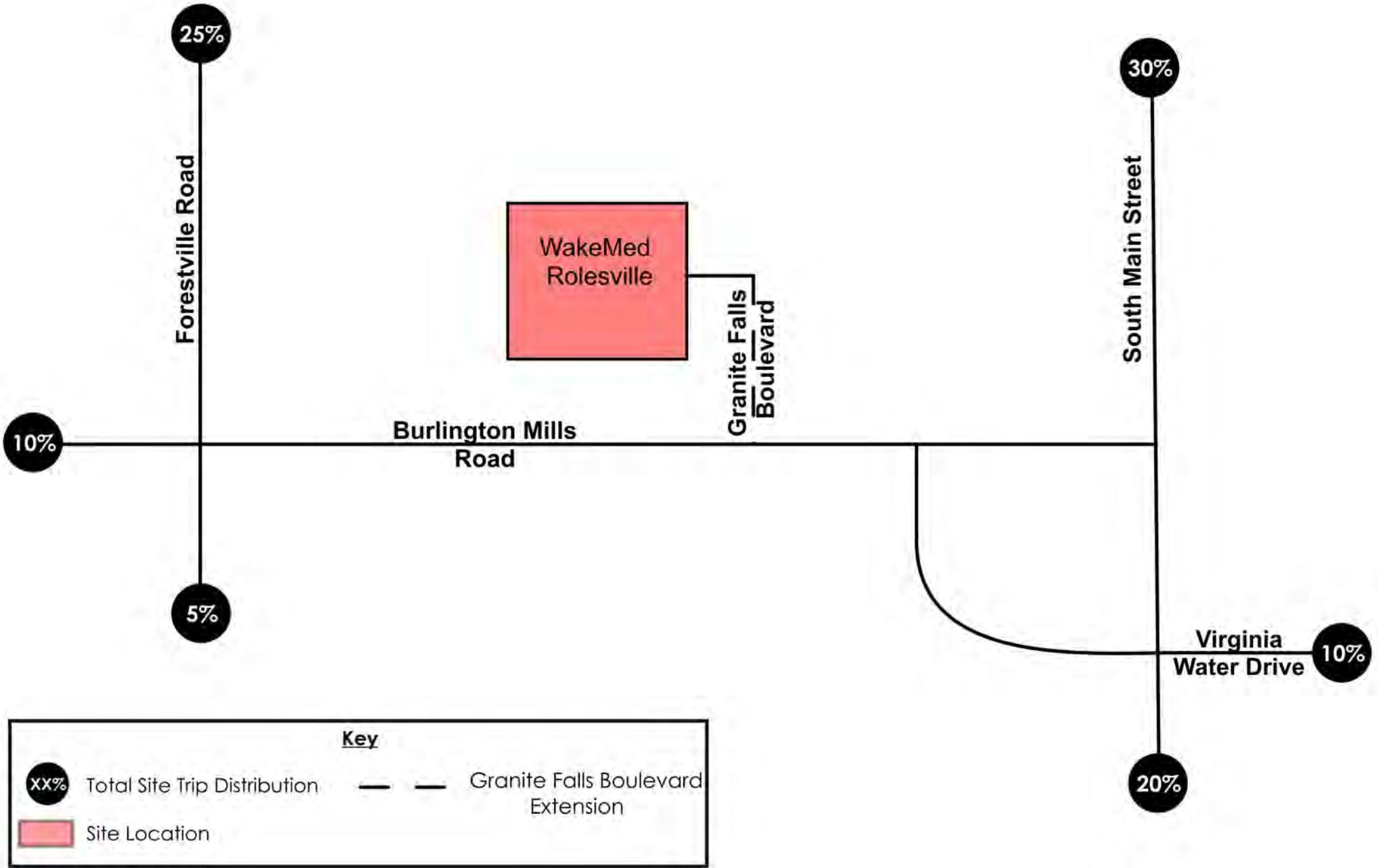


Figure is Not To Scale

# WakeMed Rolesville

## Programmatic Needs Determination by Department

10 Year Projection	Exist.Area	PROJECTED NEED					Program Assumption
		Program	Driver Type		Unit Of Utilization	FY 2030 Program DGSF	
<b>COMMUNITY HOSPITAL</b>		156	<b>Beds</b>				

INPATIENT BEDS

129,200

**Intensive Care / Progressive Care**

Intensive Care	18	Beds	960.1	SF/Bed	17,282	66% of total admissions
Progressive Care	6	Beds	960.1	SF/Bed	5,761	34% of total admissions

**Acute Care**

Med / Surg Specialties	108	Beds	705.3	SF/Bed	76,173	220 nsf patient room
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**Women & Infants**

Maternity Waiting / Public	21	LDR/PP	53.3	SF/Seat	1,119	includes public restrooms & consult
Triage	2	Triage	1059	SF/Seat	2,118	
Labor, Delivery, Recovery	5	LDR's	1059	SF/Bed	5,297	8 existing LDR's + On Call
Postpartum Room	16	PP	694.6	SF/Bed	11,113	21 PP rooms
Newborn Nursery	5	Bassinets	68.56	SF/Bass.	343	
NICU / Special Care Nursery	8	Bassinets	802.8	SF/Bass.	6,423	5 NICU Rooms + 1 SCN room. Add(4) Overflow
C-Section / OR	2	C-Sect	1786	SF/OR	3,571	(1) shell C-Section; flex for other surgical case needs

**Short Stay / Observation**

	-	Beds	705	SF/Bed	-	rooms within ED, shared support space
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DIAGNOSTIC & TREATMENT

143,495

**Emergency Services**

Additional Public Waiting	16	Seats	37.5	SF/Seat	581		
Triage / Intake (assumes I - IV)	2	Ex/Treat	650.2	SF/Exam-Treat	1,300	(2) Shell	
Billing I (minor / non-urgent)	2.20%	1.0	Ex/Treat	650.2	SF/Exam-Treat	650	
Billing II (minor / urgent)	1.80%	2.0	Ex/Treat	650.2	SF/Exam-Treat	1,300	
Billing III (urgent)	16.40%	14	Ex/Treat	650.2	SF/Exam-Treat	9,103	(3) for Peds, (2) shell
Billing IV (urgent / emergent)	26.58%	18	Ex/Treat	650.2	SF/Exam-Treat	11,704	(2) Psych
Billing V (emergent)	52.50%	14	Ex/Treat	650.2	SF/Exam-Treat	9,103	(1) Ortho / Cast, (2) Exam,
Critical	0.52%	1	Ex/Treat	900	SF/Exam-Treat	900	(1) Trauma room + (1) Shell
ED Imaging - X-Ray		1.0	Proced.	1293	SF/Proced.Rm	1,293	42 X-Rays & 44 CT's per 100 patients
ED Imaging - CT		1.0	Proced.	1500	SF/Proced.Rm	1,500	42 X-Rays & 44 CT's per 100 patients
Additional On Call Sleep Rooms		6	Sleep	240	SF / Sleep Rm	1,440	Accounting for Level II Trauma Service

**Clinical Decision Unit (CDU)**

	9	Exam / Bed	650	SF/Bed	5,850	rooms within ED, shared support space
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**Heart & Vascular**

Cath Lab - Diagnostic IP	-	Proced.	1187	SF/Proced.Rm	-	Single Plane
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# WakeMed Rolesville

## Programmatic Needs Determination by Department

10 Year Projection	Exist.Area Program	PROJECTED NEED					FY 2030 Program DGSF	Program Assumption
		Driver Type	Unit Of Utilization					
DEPARTMENT NAME								
<b>COMMUNITY HOSPITAL</b>		<b>156</b>	<b>Beds</b>					
Cath Lab - Diagnostic OP		2	Proced.	1187	SF/Proced.Rm	2,374	Single Plane	
EP Lab		2	Proced.	1247	SF/Proced.Rm	2,494		
Interventional Radiology - IP		1	Proced.	1187	SF/Proced.Rm	1,187		
Interventional Radiology - OP		1	Proced.	1187	SF/Proced.Rm	1,187		
<b>Preparation / Recovery</b>								
Family Waiting (all procedures)		57	Bays	84.1	SF / Bay	4,794	Includes Public Toilets & Consult	
PAT Line Insertion		7	Bays	406.4	SF / Exam	2,845	Located within Prep / Recovery	
Pre-Op - OP OR		12	Bays	406.4	SF / Prep Bed	4,877	1.39 bays per OR	
Pre-Op - IR/Cath/Endo		8	Bays	406.4	SF / Prep Bed	3,252	1.39 bays per OR	
Recovery - Level II		19	Bays	406.4	SF / Recov Bed	7,722	1.39 bays per OR	
Shell Space			Bays	406	SF / Recov Bed	-		
Inpatient Holding			Bays	406	SF / Bay	-		
PACU - OP Cath		2	Bays	406.4	SF / PACU Bed	813	1.72 bays per OR, sized to accommodate 5 OR's	
PACU - IP/OP OR & IP Cath		4	Bays	406.4	SF / PACU Bed	1,626	1.72 bays per OR, sized to accommodate 5 OR's	
PACU - IP/OP Endo/GI & IR		5	Bays	406.4	SF / PACU Bed	2,032	1.72 bays per OR, sized to accommodate 5 OR's	
<b>Surgery Staff Locker / Lounge</b>		72	OR's +Bays	48.74		3,510		
<b>Inpatient Surgery</b>								
Anesthesia		0	OR's	1800	SF/OR	-		
General OR		4.0	Gen.OR	2017	SF/OR	8,068		
Hybrid OR		1.0	Hybrid	3528	SF/OR	3,528		
Orthopedic Surgery		1.0	Orthop.OR	2178	SF/OR	2,216		
<b>Respiratory Therapy</b>		156	Beds	7.4	SF/Bed	1,154		
<b>Outpatient Surgery</b>							Assumes 35% of caseload shifts to ASC	
Anesthesia		0	OR's	1800	SF/OR	-		
Cystoscopy		0	Minor Proc.	605	SF/OR	-		
Endoscopy		2.0	Endo	850	SF/OR	1,700	Assumes 35% of caseload shifts to ASC	
General OR		6.0	Gen.OR	2017	SF/OR	12,102	Assumes 35% of caseload shifts to ASC	
Orthopedic Surgery		2.0	Orthop.OR	2178	SF/OR	4,356	Assumes 35% of caseload shifts to ASC	
<b>Laboratory</b>		13.0						
Core Lab		156	Beds	38	SF/Bed	5,928	growth needs in slide storage. Confirm Cancer tests needs	
Anatomic Pathology		14	OR's	222.7	SF/OR	3,121	Includes Pathology within Surgery, Need for additional slide stor	
Blood Bank		156	Beds	0	SF/Bed	-		
<b>Radiology</b>								
Imaging Waiting		20	Bays	43.1	SF / Bay	862	Includes Public Toilets & Consult	
CT		1.0	Proced.	1500	SF/Proced.Rm	1,500	does not include longer biopsy & specialty procedure	

# WakeMed Rolesville

## Programmatic Needs Determination by Department

10 Year Projection	Exist.Area	PROJECTED NEED					FY 2030 Program DGSF	Program Assumption
		Program	Driver Type		Unit Of Utilization			
DEPARTMENT NAME	Program		Type					
<b>COMMUNITY HOSPITAL</b>		<b>156</b>	<b>Beds</b>					
Fluoroscopy		1.0	Proced.	1090	SF/Proced.Rm	1,090		
Radiology		2.0	Proced.	1090	SF/Proced.Rm	2,180		
Ultrasound		2.0	Proced.	1090	SF/Proced.Rm	2,180		
MRI		2.0	Proced.	1613	SF/Proced.Rm	3,226		
Intake Holding		2	Proced.	250	SF/Proced.Rm	500		
<b>Routine Diagnostics / Cardiopulmonary</b>								
Non-Invasive Imaging		2	Exam	1085	SF / Exam	2,170		
Nuclear Medicine Other		1.0	Proced.	1613	SF/Proced.Rm	1,613	Need 6 uptake for 1 Nuc & 1 PET replace PET MEQ with faster time.	
Nuclear Medicine PET		1.0	Proced.	1613	SF/Proced.Rm	1,613		
<b>Respiratory Therapy</b>		<b>156</b>	<b>Beds</b>	<b>6.08</b>	<b>SF / Bed</b>	<b>948</b>		
<b>PUBLIC &amp; ADMINISTRATION</b>								
<b>Administrative Office - Executive</b>		<b>8</b>	<b>FTE's</b>	<b>320</b>	<b>SF / FTE</b>	<b>2,560</b>	Admin/Recept, drop in office, CNO, Director, VP 19,692	
<b>Business / Registration</b>		<b>10</b>	<b>FTE's</b>	<b>275</b>	<b>SF / FTE</b>	<b>2,750</b>	Includes Controller office at 138	
<b>Credentialing</b>		<b>3</b>	<b>FTE's</b>	<b>128.6</b>	<b>SF / FTE</b>	<b>386</b>		
<b>Data Process / Info Systems</b>		<b>156</b>	<b>Beds</b>	<b>7.0</b>	<b>SF / Bed</b>	<b>1,094</b>		
<b>Human Resources / Employee Health</b>		<b>4</b>	<b>FTE's</b>	<b>200</b>	<b>SF / FTE</b>	<b>800</b>		
<b>Medical Records (HIMS)</b>		<b>156</b>	<b>Beds</b>	<b>2.48</b>	<b>SF / Bed</b>	<b>387</b>		
<b>Medical Library / Lounge</b>								
<b>Physician Lounge</b>		<b>156</b>	<b>Beds</b>	<b>9.913</b>	<b>SF / Bed</b>	<b>1,546</b>		
<b>Conference Center</b>		<b>150</b>	<b>Seats</b>	<b>25.25</b>	<b>Allowance</b>	<b>3,788</b>		
<b>Volunteers</b>		<b>8</b>	<b>FTE's</b>	<b>134.8</b>	<b>SF / FTE</b>	<b>1,078</b>		
<b>Gift Shop</b>		<b>156</b>	<b>Beds</b>	<b>4.013</b>	<b>SF / Bed</b>	<b>626</b>		
<b>Meditation</b>					<b>Allowance</b>	<b>694</b>		
<b>Family Resource Room</b>					<b>Allowance</b>	<b>1,000</b>	information / brochures, 1 wksta. for patients, desk	
<b>Public Space</b>		<b>156</b>	<b>Beds</b>	<b>19.13</b>	<b>SF / Bed</b>	<b>2,984</b>	Entry, Lobby / Waiting / Public Restrooms	
<b>Public Concourse</b>					<b>Allowance</b>		Included within public circulation	

# WakeMed Rolesville

## Programmatic Needs Determination by Department

10 Year Projection	Exist. Area Program	PROJECTED NEED					FY 2030 Program DGSF	Program Assumption
		Driver Type	Unit Of Utilization					
COMMUNITY HOSPITAL	156	Beds						

### SUPPORT SERVICES

<b>Food &amp; Nutrition</b>							54,522
Food Service	156	Beds	29.58	SF / Bed	4,614	Sized for 150 beds. Need to factor in MOB2	
Servery	156	Beds	16	SF / Bed	2,496	Will need future expansion within adj soft space	
Dining Room	156	Beds	23.93	SF / Seat	3,733		
Café				Allowance	428		
<b>Pharmacy</b>							
Satellite Pharmacy	156	Beds	32.62	SF / Bed	5,089		
<b>Central Sterile Processing</b>	18	OR's	697	SF / OR	12,558	14 OR's .+ 2 Endo + 2 C-Setion OR's	
<b>Materials Management</b>	156	Beds	52.02	SF / Bed	8,115	Space projected for just in time delivery system, includes enclos	
<b>Med Gas Storage</b>	156	Beds	2.53	SF / Bed	395		
<b>Biomedical</b>	156	Beds	13.67	SF / Bed	2,133		
<b>Support Staff Locker / Lounge</b>	156	Beds	13.26	SF / Bed	2,069	Shared with Supportive Services	
<b>Building Maintenance</b>	156	Beds	13.67	SF / Bed	2,133		
<b>Engineering / Maintenance</b>	156	Beds	9.254	SF / Bed	1,444		
<b>Mail Room</b>	156	Beds	2.15	SF / Bed	335		
<b>Security</b>	156	Beds	4.14	SF / Bed	646		
<b>Fire Command</b>	1	Station	360	SF / Bed	360		
<b>Environmental Services</b>	156	Beds	9.3	SF / Bed	1,451		
<b>Waste Management</b>	156	Beds	4.44	SF / Bed	693	Biohazard, Trash Chute rooms, Waste Storage Rooms only	
<b>Laundry / Linen</b>	156	Beds	14.53	SF / Bed	2,267	Clean / Soil Linen Holding Rooms + Chute rooms	
<b>Morgue</b>	156	Beds	4.132	SF / Bed	645	Body holding room for 2; no autopsy space	
<b>Patient Transport / Valet</b>	3	Valet Sta.	211.3	SF / Bed	634	Valet stations at 3 separate entrances	

# WakeMed Rolesville

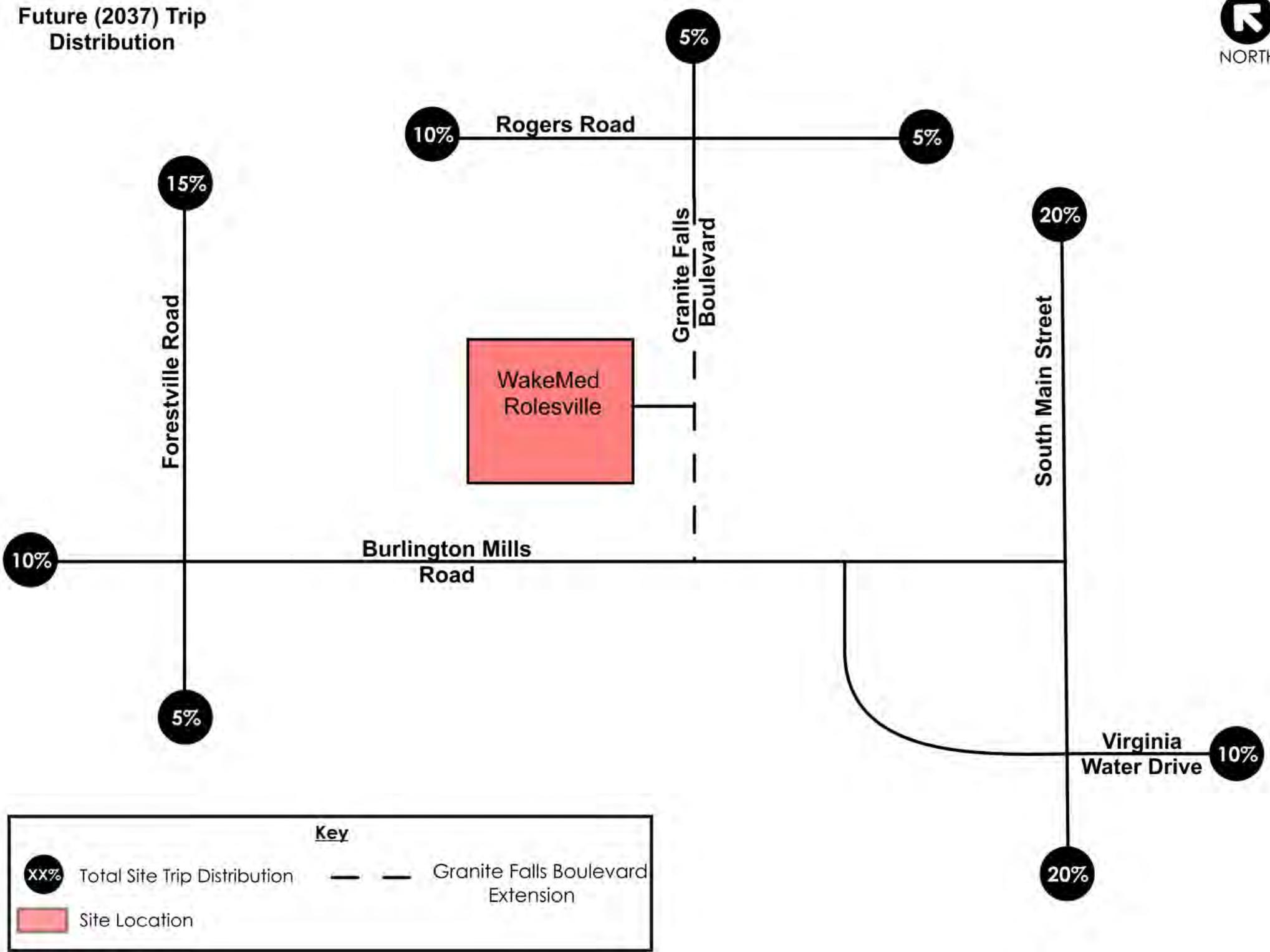
## Programmatic Needs Determination by Department

10 Year Projection	Exist. Area Program	PROJECTED NEED					FY 2030 Program DGSF	Program Assumption
		Driver Type	Unit Of Utilization					
COMMUNITY HOSPITAL OTHER	156	Beds						

Shell Storage	156	Beds	7.71	SF / Bed	1,203	MP to accommodate future growth as needed
Shell Med/Surge Unit	0	Beds	726.8	SF / Bed	-	
Shell ED Observation & Exam Space	3	Room	360.9	SF / Room	1,083	

<b>DGSF Hospital</b>			
<b>TOTAL ASSIGNABLE AREA</b>	A	<b>346,908</b>	<b>DGSF</b>
General Circulation	B	<b>55,505</b>	New assumes 16% of A
Mechanical/ Electrical	C	<b>40,241</b>	New assumes 10% of A + B (with roof top MEP)
Exterior Walls & Structure	D	<b>44,266</b>	New assumes 10% of A+B+C
<b>TOTAL HOSPITAL AREA</b>		<b>486,921</b>	<b>BGSF (A + B + C + D)</b>
Gross Square Feet Per Bed		3,121	
<b>Mechanical Penthouse to Support Phase II Growth</b>		-	<b>BGSF</b>
<b>Central Energy Plant</b>		<b>16,000</b>	<b>BGSF (10,000 CUP Bldg + 6,000 yard)</b>
<b>Utility Tunnel</b>		<b>4,500</b>	<b>BGSF</b>

# Future (2037) Trip Distribution



**Key**

- XX% Total Site Trip Distribution
- Site Location
- Granite Falls Boulevard Extension

Figure is Not To Scale