

West End Townes (Formerly Gannett Street Townhomes): S-82-17, AA # 3911, Transaction 536550

LOCATION:	This site is located on the west of Gannett Street and north of the intersection of Western Boulevard and Gannett Street. The site addresses and pin numbers are as follows: 700 Gannett Street/0784627000, 702 Gannett Street/784617912, 704 Gannett Street/ 784616892, and 708 Gannett Street/784617605.
REQUEST:	Subdivision and development of a 5.08 acre site zoned R-10 (Residential-10) for 49 3-bedroom townhome unit lots, one single family dwelling lot and two common lots. The applicant is proposing a density of 10 units per acre. The site is in the Special Residential Parking Overlay District.
DESIGN ADJUSTMENT(S)/ ALTERNATES, ETC:	One Design Adjustment was approved by the Development Services Director Designee, reference DA-105-2018:

- 1. A Design Adjustment from UDO Section 8.3.6 Block Perimeter
- FINDINGS: City Administration finds that this request, with the below conditions of approval being met, conforms to the Unified Development Ordinance. This approval is based on a preliminary plan dated 11/19/2018 by Keith P. Gettle of Caa Engineers, Incorporated.

# **CONDITIONS OF APPROVAL and NEXT STEPS:**

This document must be applied to the second sheet of all future submittals except for final plats. This is a preliminary plan and as such no permits have been issued with this approval. To obtain permits and/or completion of the project, the following steps are required:

□ <u>CONCURRENT SITE REVIEW NOT REQUIRED AT THIS TIME</u> – However, plan revisions or further development that includes land disturbance of 12,000 square feet or greater, public or private infrastructure, shared stormwater devices, etc. will require concurrent site review.

☑ <u>CONCURRENT SITE REVIEW</u> - For land disturbance of 12,000 square feet or greater, public or private infrastructure, shared stormwater devices, etc. Concurrent Site Review may be submitted upon receipt of this signed approval document.

#### The following items are required prior to approval of Concurrent Site Review plans:

#### Engineering

1. A right-of-way obstruction permit must be obtained from Right-of-way Services prior to the commencement of any construction activities within the right-of-way.

#### Stormwater

2. A 100-year floodplain analysis shall be submitted and approved by the Engineering Services Department prior to the issuance of any grading or site permit (UDO 9.3).



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- 3. A stormwater control plan with a stormwater operations and maintenance manual and budget shall be approved (UDO 9.2).
- 4. A surety equal to of the cost of clearing, grubbing and reseeding a site, shall be paid to the City (UDO 9.4.4).

☑ **LEGAL DOCUMENTS** - Email to <u>legaldocumentreview@raleighnc.gov</u>. Legal documents must be approved, executed, and recorded prior to or in conjunction with the recorded plat on which the associated easements are shown. Copies of recorded documents must be returned to the City within one business day of recording to avoid withholding of further permit issuance.

$\boxtimes$	City Code Covenant	$\boxtimes$	Slope Easement
$\boxtimes$	Stormwater Maintenance Covenant		Transit Easement
$\boxtimes$	Utility Placement Easement		Cross Access Easement
	Sidewalk Easement	$\boxtimes$	Public Access Easement
			Other:

⊠ <u>RECORDED MAP(S)</u> - Submit plat to record new property lines, easements, tree conservation areas, etc.). Plats may be submitted for review when the Concurrent Site Review plans, if required, have been deemed ready for mylar signature.

#### The following items must be approved prior to recording the plat:

#### General

- The City Code Covenant shall be approved by the City and recorded with the county register of deeds office where the property is located and a copy of the recorded document shall be provided to the City by the end of the next business day following the recordation of the final plat. Further recordings and building permits will be withheld if the recorded document is not provided to the City.
- 2. Street names for this development shall be approved by the Raleigh GIS Division and by Wake County.
- 3. A demolition permit shall be issued and this building permit number be shown on all maps for recording.

#### Engineering

- 4. The required right of way for proposed and/or existing streets shall be dedicated to the City of Raleigh and shown on the map approved for recordation.
- 5. A 5' general utility easement and associated deed of easement shall be approved by the City and the location of the easement shall be shown on the map approved for recordation. The deed of easement shall be recorded at Wake County Register of Deeds within one day of recordation of



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the recorded plat. A recorded copy of these documents must be provided to the Development Services Department within one day from authorization of lot recordation. If recorded copies of the documents are not provided, further recordings and building permit issuance will be withheld.

- 6. Slope easements and associated deeds of easement shall be approved by the City and the location of the easement shall be shown on the map approved for recordation. The deed of easement shall be recorded at Wake County Register of Deeds within one day of recordation of the recorded plat. A recorded copy of these documents must be provided to the Development Services Department within one day from authorization of lot recordation. If recorded copies of the documents are not provided, further recordings and building permit issuance will be withheld.
- 7. A public access easement and associated deed of easement shall be approved by the City and the location of the easement shall be shown on the map approved for recordation. The deed of easement shall be recorded at Wake County Register of Deeds within one day of recordation of the recorded plat. A recorded copy of these documents must be provided to the Development Services Department within one day from authorization of lot recordation. If recorded copies of the documents are not provided, further recordings and building permit issuance will be withheld.
- 8. A public infrastructure surety is provided to the City of Raleigh Development Services Development Engineering program (UDO 8.1.3).

#### **Public Utilities**

9. Infrastructure Construction Plans (concurrent submittal) must be approved by the City of Raleigh Public Utilities Department for all public water, public sewer and/or private sewer extensions.

#### Stormwater

- 10. A payment equal to twenty-four percent (24%) of the estimated cost of constructing all stormwater control facilities shown on the development plans shall be paid by the developer to the City stormwater facility replacement fund (UDO 9.2.2.G.3).
- 11. The Flood Storage Easement, as approved by the City Stormwater Engineer and shown on the preliminary plan, shall be shown on the recorded map (UDO 9.3.3.G).
- 12. The City form document entitled Declaration of Maintenance Covenant and Grant of Protection Easement for Stormwater Control Facilities shall be approved by the City and recorded with the county register of deeds office (UDO 9.2.2.G).
- 13. All stormwater control measures and means of transporting stormwater runoff to and from any nitrogen and stormwater runoff control measures shall be shown on all plats for recording as private drainage easements (UDO 9.2).
- 14. A surety equal to 125% of the cost of the construction of stormwater devices shall be paid to the Engineering Services Department (UDO 9.2.2.D.1.d).



City of Raleigh Development Services Department One Exchange Plaza Raleigh, NC 27602 (919) 996-2495 DS.help@raleighnc.gov www.raleighnc.gov

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EXPIRATION DATES: If significant construction has not taken place on a project after preliminary subdivision approval, that approval may "sunset" and be declared void, requiring re-approval before permits may be issued. To avoid allowing this preliminary approval to "sunset", the following must take place by the following dates:

3-Year Sunset Date: 12-5-2021 Record at least ½ of the land area approved.

5-Year Sunset Date: 12-5-2023 Record entire subdivision.

I hereby certify this administrative decision. Justin Un the \_\_\_\_ Date: <u>\_\_\_\_/2/5/18</u> Signed:(Planning Dir./Designee) Staff Coordinator: Daniel L. Stegall

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# Design Adjustment Staff Response



#### DEVELOPMENT SERVICES DEPARTMENT

Per Section 10.2.18.C of the Unified Development Ordinance, the Development Services Director, or designee, shall consult with the heads of other City Departments regarding the review of the request. The Development Services Director, or designee, shall approve, approve with conditions or deny the request, but must do so within 60 days of the receipt of a completed application. Additional time may be necessary if a municipal or state entity is incorporated in the review process or if a detailed engineering study is submitted in conjunction with the request.

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	Project Name	Gannett Tov	wnho	omes		
IECT	Development Case Number	S-82-17				
PROJECT	Transaction Number	536550		reading and a second	······ • • • • • • • • • • • • • • • •	
	Design Adjustment Number	DA - 105 -	201	8		
	Staff recommendation based upon t	he findings in	ı the	applicable code(s):		
	UDO Art. 8.3 Blocks, Lots, Acce	ISS		UDO Art. 8.5 Existi	ng Streets	
	UDO Art. 8.4 New Streets			Raleigh Street Desi	ign Manual	
	Staff SUPPORTS 🗹 DOES NOT SUPP	PORT 🗌 the	e des	ign adjustment requ	lest.	
		DEPART	MEN	TS		
	Dev. Services Planner			City Planning		
	Development Engineering L	Kin 11.13-18		Transportation	· · · · · · · · · · · · · · · · · · ·	
	Engineering Services			Parks & Recreation	n and Cult. Res.	
NSE	Public Utilities	5746745461019081100020000000000000000000000000000				
PO SPO	CONDITIONS:					
STAFF RESPONSE						
IAF						
S						
				/		
				/		
Deve	elopment Services Director or Design	nee Action:	MAF	PROVE APPROVE W		1
					*	
	orized Signature OLCINDECING I	W. elteme	Ξ, Ř	E, MPA	12/5/2018	
Autho	orized Signature DLGINGSCING I	and infrast	eúcr	WER MARARER	Date	

\*The Development Services Director may authorize a designee to sign in his/her stead. Please print name and title next to signature. Appeal of the decision from the Development Services Director, or his or her designee, shall be made in writing within 30 days to the Board of Adjustment (see Section 10.2.18.C3b).

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# Staff Response Article 8.3 Blocks Lots, Access



### DEVELOPMENT SERVICES DEPARTMENT

# The Development Services Director may in accordance with *Sec. 10.2.18.* approve a design adjustment, subject to all of the following findings.

- A. The requested design adjustment meets the intent of this Article;
  YES ✓ NO
- B. The requested design adjustment conforms with the Comprehensive Plan and adopted City plans;

YES 🖌 NO 🗌

C. The requested design adjustment does not increase congestion or compromise Safety;

YES 🖌 NO 🗌

 D. The requested design adjustment does not create any lots without direct street Frontage;

YES 🖌 NO 🗌

- E. The requested design adjustment is deemed reasonable due to one or more of the following:
  - 1. Topographic changes are too steep;
  - 2. The presence of existing buildings, stream and other natural features;
  - 3. Site layout of developed properties;
  - 4. Adjoining uses or their vehicles are incompatible;
  - 5. Strict compliance would pose a safety hazard; or
  - 6. Does not conflict with an approved or built roadway construction project
  - 7. adjacent to or in the vicinity of the site.

YES 🔽 NO 🗌

### STAFF FINDINGS

Staff is in support of the proposed design adjustment to the block perimeter requirements of Article 8.3. The R-10 zoning requires a 2500' maximum block length. Public streets have been provided with a stub street for future connectivity.

The design adjustment meets the intent of the article in that the developer has provided a public street that can ultimately lead to a compliant block perimeter for no less than ten adjacent properties conforming with the intent to increase connectively. There will be no lots without direct street frontage.

The design adjustment is reasonable in that the presence of existing buildings and site layout of developed properties limits additional or different street connections. In addition, moving the proposed street connection further north would result in atypical street spacing between two public streets on Pineland Circle.

# Design Adjustment Application



The purpose of this request is to seek a Design Adjustment from the Development Services Director, or designee, for a specific project only and, if granted, may be approved with special conditions and provisions.

This application and all further action shall be consistent with Section 10.2.18 in the Unified Development Ordinance (UDO) The consideration and decision of this request shall be based solely on the conformance of the findings, as outlined in Sec. 8.3.6, Sec. 8.4.1.E and Sec. 8.5.1.G of the UDO or the Raleigh Street Design Manual.

OWNER PROJECT	Case Number S-82-17 Transaction Number 536550 Name A SQUARED LLC			
MO	Address 3100 KILMAYNE DRI State NC	VE, SUITE 100 Zip Code 2751		City CARY Phone 9196495549
ALI	Name MAC MCINTYRE PE		Firm CA/	AENGINEERS
LUNIALI	Address 4932 B WINDY HILL D	RIVE		City RALEIGH
۲	State NC	Zip Code 27609		Phone 9198184275227
I am seeking a Design Adjustment from the requirements set forth in the following:				
	UDO Art. 8.3 Blocks, Lots, Access - See		- See page 2	2 for findings
✓ UDO Art. 8.4 New Streets - Se		• See page 3	3 for findings	
	UDO Art. 8.5 Existing Streets - See page 4 for findings			
			5 for findings	
	Provide details about the request;	(please attach a m	emorandum	if additional space is needed):
	THE REQUEST IS FOR DESIGN ADJL	ISTMENT IS FOR BL	OCK PERIME	TER ADJUSTMENTS

It is the responsibility of the applicant to provide all pertinent information needed for the consideration of this request. Applicant must be the Property Owner.

By signing this document, <u>I hereby acknowledge</u> the information on this application is, to my knowledge, accurate

Owper/Owner's Representative Signature	MANAGER	4-23-18
e inter s hepresentative signature		Date

#### CHECKLIST

Signed Design Adjustment Application	
Page(s) addressing required findings	Included
Plan(s) and support documentation	
Notary page (page 6) filled out; Must be signed by property owner	
First Class stamped and addressed anuale and the signed by property owner	
First Class stamped and addressed envelopes with completed notification letter	

Submit all documentation, with the exception of the required addressed envelopes and letters to designadjustments@raleighnc.gov.

Deliver the addressed envelopes and letters to:

Development Services, Development Engineering

One Exchange Plaza, Suite 500

Raleigh NC, 27601

For Office Use Only	RECEIVED DATE:	DA -	*	······

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**REVISION 1/30/2018** 

Article 8.3, Blocks, Lots, Access

Administrative Design Adjustment Findings



SERVICES

The Development Services Director may in accordance with Sec. 10.2.18. approve a design adjustment, subject to all of the following findings. Describe how each item is met:

A. The requested design adjustment meets the intent of this Article;

THE INTENT OF THE ACCESS REGULATIONS PER SECTION 8.3.1 C AND 8.31.C ARE TO PROVIDE SAFE VEHICULAR /PEDESTRIAN ACCESS. THE PUBLIC ROAD EXTENSION DEADEND TO THE WESTERN PROPERTY LINE SHALL PROVIDE FOR A FUTURE BLOCK CONNECTION WHEN THE PROPERTIES TO THE WEST ARE REDEVELOPED IN THE FUTURE AND ROADS ARE EXTENDED

B. The requested design adjustment conforms with the Comprehensive Plan and adopted City plans;

THE DESIGN ADJUSTMENT DOES CONFORM WITH THE 2030 COMPREHENSIVE PLAN AND WILL NOT IMPACT THE FUTURE LAND USE OR FUTURE STREET NETWORK

C. The requested design adjustment does not increase congestion or compromise Safety;

THE DESIGN ADJUSTMENT WOULD HAVE NO EFFECT ON CONGESTION ON GANNETT STREET,

D. The requested design adjustment does not create any lots without direct street Frontage:

THE DESIGN ADJUSTMENT WILL NOT CREATE ANY LOTS WITHOUT DIRECT STREET FRONTAGE. THE EXISTING SINGLE FAMILY HOMES TO THE NORTH ,WEST AND SOUTH OF THE PROJECT HAVE DIRECT ACCESS TO EXISTING PUBLIC ROADS.

- E. The requested design adjustment is deemed reasonable due to one or more of the following:
  - 1. Topographic changes are too steep;
  - 2. The presence of existing buildings, stream and other natural features;
  - 3. Site layout of developed properties;
  - 4. Adjoining uses or their vehicles are incompatible;
  - 5. Strict compliance would pose a safety hazard; or
  - 6. Does not conflict with an approved or built roadway construction project
  - 7. adjacent to or in the vicinity of the site.

THE DESIGN ADJUSTMENT IS DEEMED REASONABLE DUE TO FOLLOWING: 2. THERE ARE EXISTING SINGLE FAMILY HOMES TO THE NORTH, WEST AND SOUTH THAT PREVENT BLOCK CONNECTIONS

3. THE SITE LAYOUT OF EXISTING DEVELOPED PROPERTIES: 3 WELL ESTABLISHED SINGLE FAMILY HOMES TO THE NORTH WEST AND SOUTH

6. THE REQUESTED ADJUSTMENT DOES NOT CONFLICT WITH AN APPROVED OR BUILT ROADWAY

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**REVISION 1/30/2018** 

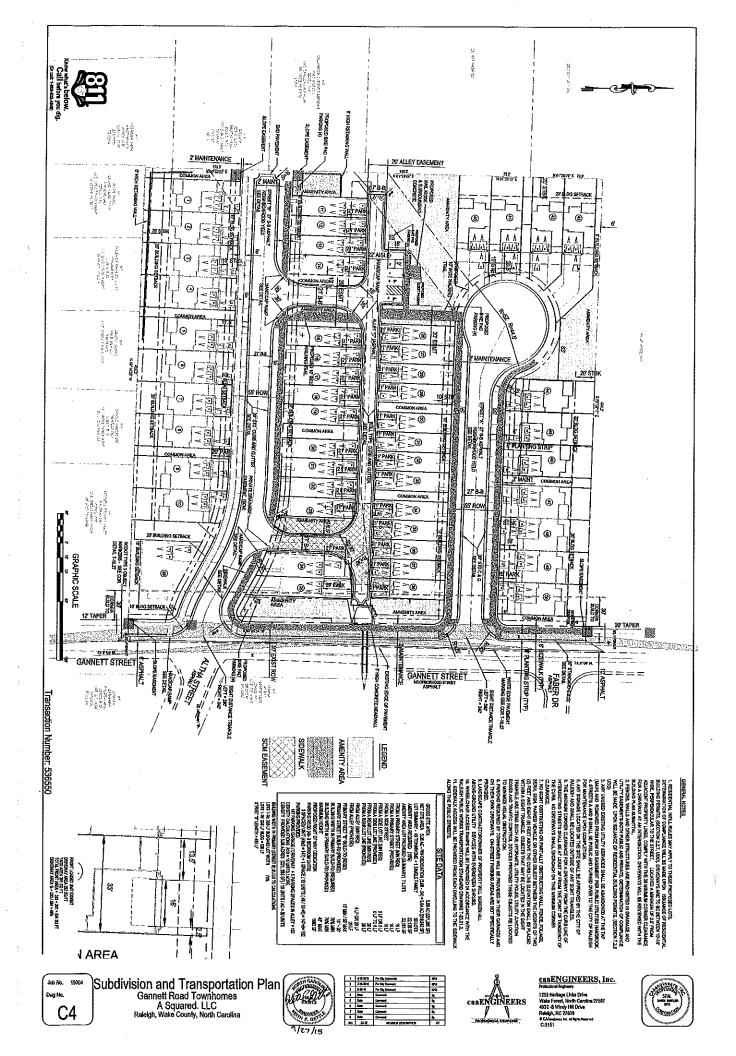
# Individual Acknowledgement

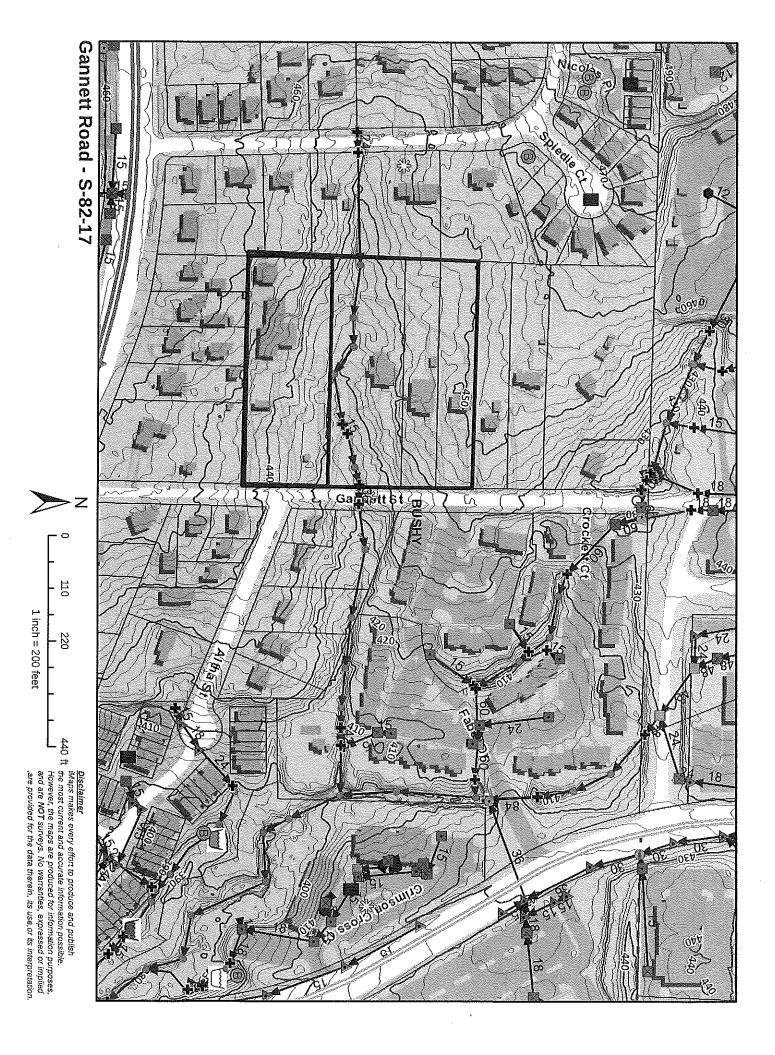


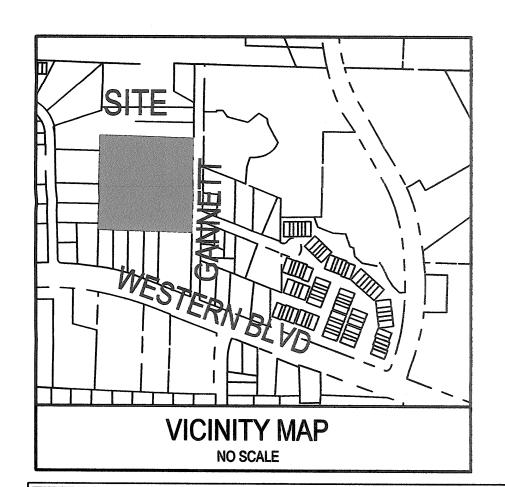
STATE OF NORTH CAROLINA COUNTY OF <u>Wake</u>	INDIVIDUAL
1, Paige Teeter AJ Stillittance acknowledged the due execution of	, a Notary Public do hereby certify that personally appeared before me this day and the forgoing instrument.
This the $23$ day of $f$	<u>1-pril, 2018.</u>
NOTISEALS AUBLIC COMMERT 21 20 COMMERT 20 COMMER	Notary Public Parge Deater 2021

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**REVISION JAN. 30, 18** 







SITE DATA		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
GROSS SITE AREA	5.08 AC (221,285 SF)	
NET SITE AREA 5.08 AC - RW DEDICATION (5.0804) =	= 5.04 AC (219,542 SF)	
LOT SUMMARY - 49 TOWNHOME + 1 SINGLE FAMILY	50 LOTS	
AMENITY AREA REQUIRED (10%)	22,128 SF	
AMENITY AREA LOT PROVIDED (SUMMARY) 7 LOTS	22,161 SF	
FROM A PRIMARY STREET (MIN REQ)	10 LF	
FROM A PRIMARY STREET (PROVIDED)	10 LF	
FROM A SIDE STREET	10 LF	
FROM A SIDE LOT LINE (MIN REQ)	0 LF OR 6 LF	
FROM A SIDE LOT LINE (PROVIDED)	0 LF TO 6 LF	
FROM A REAR LOT LINE (MIN REQ)	20 LF	
FROM A REAR LOT LINE (PROVIDED)	20 LF	
FROM ALLEY (MIN REQ)	4 LF OR 20 LF	
FROM ALLEY (PROVIDED)	20 LF	
PRIMARY STREET "B" BUILD-TO (REQD)	10' MIN / 55' MAX	
PRIMARY STREET BUILD-TO (PROVIDED)	10 ' - 20'	
BUILDING WIDTH IN PRIMARY BUILD-TO (REQUIRED)	70% MIN	
BUILDING WIDTH IN PRIMARY BUILD-TO (PROVIDED)	70% MIN	
MAXIMUM HEIGHT	45' MAX	
PROPOSED RIGHT OF WAY DEDICATION	1882 SF	
PARKING REQD (49-3 BEDROOM UNITS)		
3 SPACES/ UNIT (49x3 = 147) + 1 SPACE / 10 UNITS (	49 / 10 =5) = 147+5= 152	
PARKING PROVIDED		
147 PARKING GARAGE / DRIVEWAY + 5 PARKING SP	ACES IN ALLEY = 152	
DENSITY CALCULATIONS R10 = 10 UNITS / ACRE DENSITY PROVIDED 5.08 ACRES (221, 285 SF) / 10 UNIT		
DENOTITI TROVIDED J.00 AUNEO (221, 200 OF)/ 10 UNI	JINU - JU UNITO	

LOTS 1-10: 330 LF BLDG/465 LOT WIDTH LOTS 1-10: 330 LF BLDG = 330 LF STREET "B" LENGTH = 465 LF

SOLID WASTE COMPLIANCE STATEMENT:

**DEVELOPERS HAVE REVIEWED AND ARE IN COMPLIANCE** WITH THE

**REQUIREMENTS SET FORTH IN THE SOLID WASTE DESIGN** MANUAL.

**REFUSE CONTAINERS WILL BE ROLLED TO THE CURB OF** THE PUBLIC RIGHT-OF-WAY AND SERVICED BY CITY OF RALEIGH SOLID WASTE SERVICES FOR LOTS 1-10 AND 39 -50; ROLLED TO THE REAR ALLEY FOR LOTS 11-38 ALSO TO **BE SERVICED BY CITY OF RALEIGH** SOLID WASTE SERVICES. CARTS WILL BE STORED IN GARAGES FOR INDIVIDUAL OWNERS.

	NEW LEGE	ND
DRAINAGE STRUCTURE		
SANITARY SEWER MANHOLE	S	3
SANITARY SEWER CLEANOUT	C.O.	C.O.
WATER VALVE	8	8
FIRE HYDRANT	×	<b>X</b>
OVERHEAD UTILITY LINE		
UNDERGROUND ELECTRIC LINE		
UNDERGROUND TELECOM/DATA LINE	TD	
FIBER OPTIC CABLE	FO	
GAS LINE	G contraction of the second se	
STORM DRAINAGE PIPE	SD	
SANITARY SEWER LINE		and another anterest and XSS and a distinct and and
WATER LINE	••••••••••••••••••••••••••••••••••••••	
SURFACE ELEVATION CONTOUR	400	400
SURFACE SPOT ELEVATION	<b>*</b> <sup>356.44</sup>	x 356.44
CLEARING LIMIT/TREE LINE	······	· · · · · · · · · · · · · · · · · · ·
LIMIT OF DISTURBANCE	متحته و همی و محته و همی و	
ELECTRICAL TRANSFORMER PAD	Т	T
TOWNHOME PARKING (NUMBER)		

# **PROJECT INFORMATION:**

PROJECT:	WEST END TOWNES STREET TOWNHOMES (Formerly
FORWERLT GAINNET	PRELIMINARY SITE PLAN
OWNER/DEVELOPER:	A SQUARED, LLC 51 KILMAYNE DRIVE, SUITE 100 CARY, NC 27511
PHONE:	(919) 623-7119
CONTACT:	A.J. STILLITTANO
EMAIL:	AJ_STILLITTANO@HOTMAIL.COM
ENGINEER:	KEITH P. GETTLE, PE
	caaENGINEERS, INC.
	4932 B WINDY HILL DRIVE
	RALEIGH, NC 27609 1233 Heritage Links Drive
	Wake Forest, NC 27587
PHONE:	(919) 210-3934
EMAIL:	KGETTLE@CAAENGINEERS.COM
SURVEYOR:	SULLIVAN SURVEYORS
	1143-D EXECUTIVE CIRCLE
	CARY, NORTH CAROLINA 27511
PHONE:	(919) 469-4738
PROJECT ADDRESS:	700, 702, 704, 708 GANNETT DRIVE, RALEIGH NC
PIN:	0784627000, 0784617912, 0784616892, 0784617605,
ZONING:	R-10
EXIST USE:	SINGLE FAMILY RESIDENTIAL / VACANT
OVERLAY:	SPECIAL RESIDENTIAL PARKING OVERLAY DISTRICT (SPROD)
FLOOD ZONE:	NO FEMA FLOOD HAZARDS AREAS PER FEMA FIRM
IMPERVIOUS:	EXISTING - 1.19 ACRES
	PROPOSED: 3.37 ACRES
AMMENITY AREA	REQUIRED - 10% (22,128 SQUARE FEET) PROVIDED : 22,161 SF
TOTAL EXISTING TRACT AR	EA: 5.08 ACRES
	GENERAL NOTES
	1. BOUNDARY AND TOPO INFORMATION TAKEN FROM SULLIVAN SURVEYING, DATE MARCH 29, 2017.

MARCH 29, 2017. 2. REVISED TOPOGRAPHIC INFORMATION TAKEN FROM MASS GRADING PLANS DEVELOPED BY CAA ENGINEERS. 3. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES & SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS ACTIVITIES. CALL UTILITY LOCATOR SERVICE AT LEAST 48 HOURS PRIOR TO DIGGING. 4. ALL CONSTRUCTION WILL BE IN STRICT CONFORMANCE TO THE CITY OF RALEIGH STANDARDS AND SPECIFICATIONS. 5. NO CHANGES MAY BE MADE TO THE APPROVED DRAWINGS WITHOUT WRITTEN PERMISSION FROM THE ISSUING AUTHORITY. 6. EROSION CONTROL PLANS SHALL BE SUBMITTED PRIOR TO ANY GRADING ON THIS SITE.

7. ALL PROPOSED UTILITIES SHALL BE LOCATED UNDERGROUND. 8. CONSTRUCTION PLANS FOR PUBLIC STREETS AND UTILITIES MUST BE APPROVED BY THE PUBLIC WORKS DEPARTMENT AND PUBLIC UTILITIES DEPARTMENT PRIOR TO RECORDING OF ANY PLAT FOR THIS DEVELOPMENT. 9. THIS PLAN DOES NOT GRANT APPROVAL OF PROPOSED DECKS, PATIOS, PORCHES AND HVAC UNITS, WHICH SHALL ADHERE TO SEC. 1.5.4.D.1 SETBACK ENCROACHMENTS AND WILL BE REVIEWED T THE TIME OF BUILDING ISSUANCE.



# Preliminary Site Plan West End Townes (Formerly Gannett Street Townhomes)

Raleigh Wake County, North Carolina Transaction Number: 536550 S-82-17

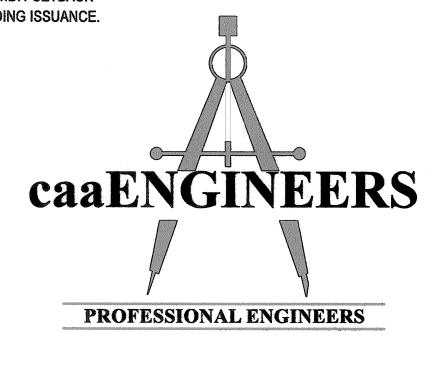
A Squared, LLC

51 Kilmayne Drive Suite 100 Cary, NC 27511 (919) 868-3972

SHEET

C1	Cover Sheet
C2	Existing Conditions & Demolition Plan
C3	Subdivision Lot and Easement Plan
C4	Subdivision and Transportation Plan
C5	Grading and Storm Drainage - North
C6	Grading and Storm Drainage - South
C7	Utility Plan
C8	Landscape Plan
D-1	Standard Site Details
D-2	Site and Stormwater Details
D-3	Stormwater Details
D-4	Sanitary Sewer Details
D-5	Water Details
D-6	Underground "StormFilter" - No
D-7	Underground "StormFilter" - So

DESCRIPTION



# caaENGINEERS, Inc.

**Professional Engineers** 

1233 Heritage Links Drive Wake Forest, North Carolina 27587 4932-B Windy Hill Dr Raleigh, NC 27609 © CAAENGINEERS, Inc. All Rights Reserved C-2151

# **Preliminary Subdivision Plan Application**



DEVELOPMENT SERVICES

ervices Customer Service Center | 1 Exchange Plaza, Suite 400 | Raleigh, NC 27601 | 919-996-2 Litchford Satellite Office | 8320 - 130 Litchford Road | Raleigh, NC 27601 | 919-996-4200

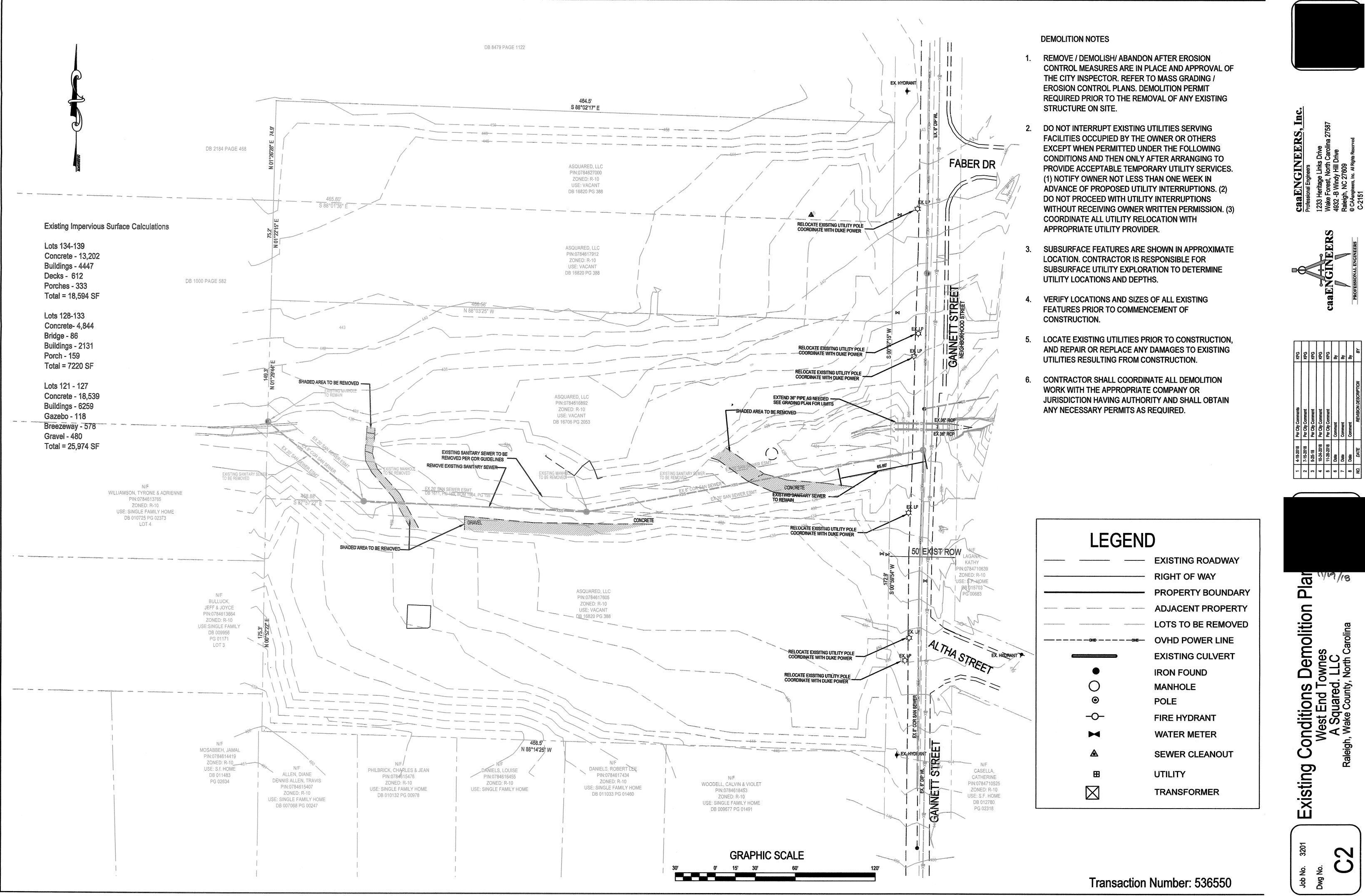
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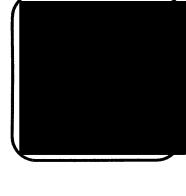
Office Use Only: Transaction # Project Coo	rdinator Team Leader
PRELIMIN	ARY APPROVALS
Subdivision *	Compact Development Conservative Subdivision
	a Metro Park Overlay or Historic Overlay District
f your project has been through the Due Diligence process, pro	ovide the transaction #: 502285
	INFORMATION
Development Name West End Townes (Former	
Proposed Use Residential Development	y Gannett Street Townhomes)
Droporty Addross(os)	
700, 702, 704, 708 Gannett Str	eet, Raleigh, NC
Vake County Property Identification Number(s) for each parce	to which these guidelines will apply:
PIN Recorded Deed PIN Recorded Deed	PIN Recorded Deed PIN Recorded Deed
34627000    784617912      What is your project type?	784616892 784617605
	on in a non-residential zoning district
Other (describe):	
OWNER/DEVEL	OPER INFORMATION
Company Name A Squared, LLC	Owner/Developer Name AJ Stillittano
address 51 Kilmayne Drive, Cary NC 27511	
	ano@hotmail.com Fax
	TACT PERSON FOR PLANS
Company Name CaaEngineers, Inc.	Contact Name Keith P. Gettle, PE
ddress 4932-B Windy Hill Drive, Raleigh NC	
	caaengineers.com Fax n/a
DEVELOPMENT TYPE AND SITE DATI	E TABLE (Applicable to all developments)
ZONING I	NFORMATION
oning District(s) R10	
more than one district, provide the acreage of each:	-
verlay District?	
iside City Limits? 🚺 Yes 🗌 No	
UD (Conditional Use District) Case # Z-	
DA (Certificate of Appropriateness) Case #	
OA ( Board of Adjustment) Case # A-	
	ER INFORMATION
kisting Impervious Surface 1.9 / 82,764 acres/sf	Flood Hazard Area
roposed Impervious Surface 3.53 / 153,76 acres/sf	Neuse River Buffer Yes 🗰 No
	Wetlands Yes No
in a Flood Hazard Area, provide the following:	
Iluvial Soils Flood Study	FEMA Map Panel #
NUMBER OF I	OTS AND DENSITY
otal # of Townhouse Lots: Detached	Attached 49
otal # of Single Family Lots 1	Total # of All Lots 50 + 2 common = 52
verall Unit(s)/Acre Densities Per Zoning Districts 50 units	
otal # of Open Space and/or Common Area Lots 2	
SIGNATURE BLOCK (App	plicable to all developments)
filing this plan as the property owner(s), I/we do hereby agree	e and firmly bind ourselves, my/our heirs, executors, administrators,
ccessors and assigns jointly and severally to construct all impr	ovements and make all dedications as shown on this proposed
bdivision plan as approved by the City.	
	my agent regarding this application, to receive and respond to to represent me in any public meeting regarding this application.
	0
we have read, acknowledge, and affirm that this project is con evelopment use	forming to all application requirements applicable with the proposed
ath	Qct. 23, 2018
gnature	Date 23, 2010
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ALL CONST IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS

NOTE:

Transaction Number: 536550

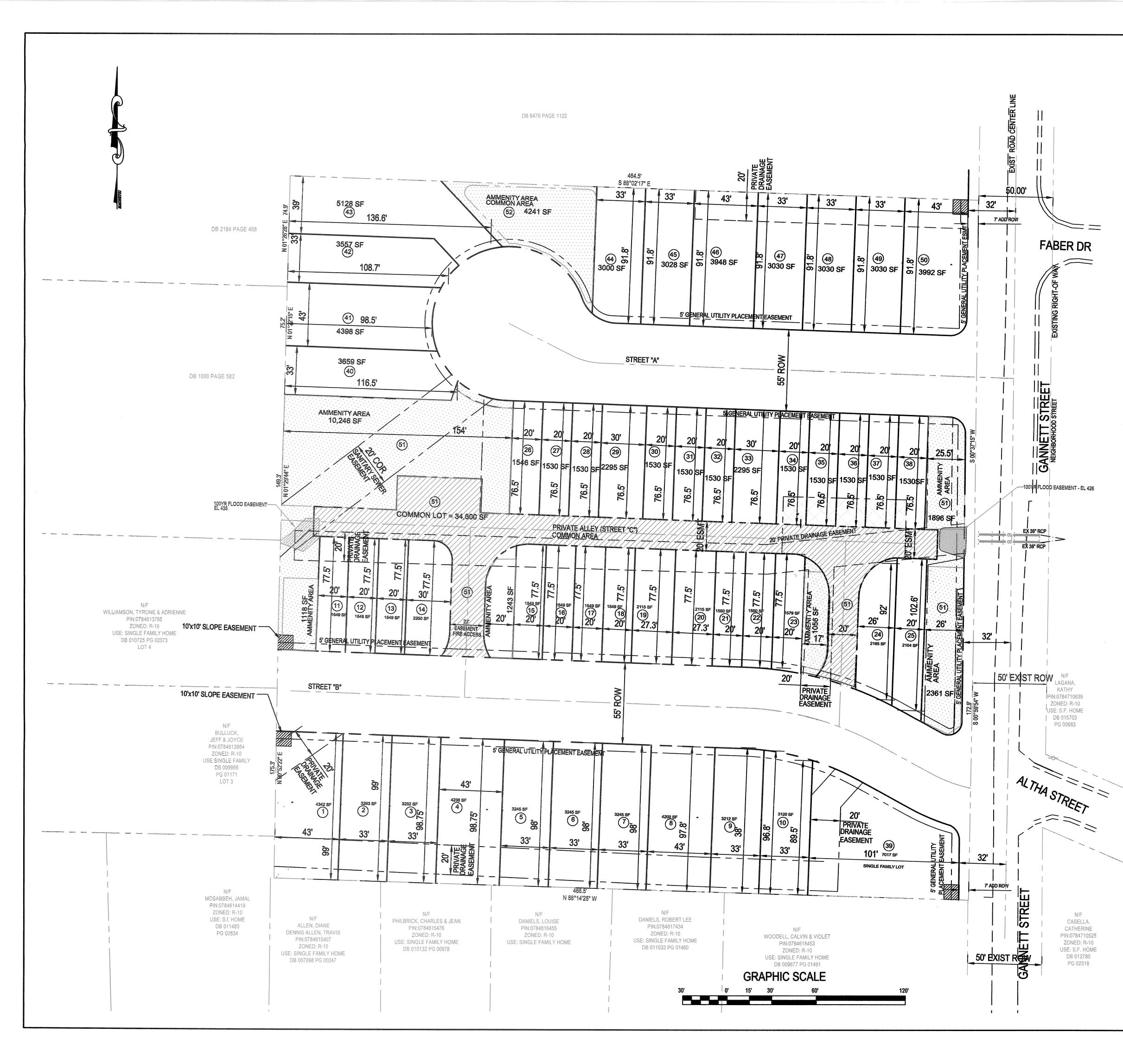








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-	4-19-2018	Per City Comments	KPG
2	7-15-2018	Per City Comment	KPG
3	9-25-18	Per City Comment	KPG
4	10-24-2018	Per City Comment	KPG
5	11-26-2018	Per City Comment	KPG
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3,252	3,000	252
4,238	3,000	1,238
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1,549	1,500	49
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2,115	1,500	615
2,115	1,500	615
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2,295	1,500	795
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		1.49
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2	7-15-2018	Per City Comment	KPG
	9-25-18	Per City Comment	KPG
4	10-24-2018	Per City Comment	KPG
2	11-26-2018	Per City Comment	KPG
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Q.	DATE	REVISION DESCRIPTION	ВΥ

		PRELIMINARY PLANS NOT FOR CONSTRUCTION	
n Lot and Easement Plan	West End Townes A Squared. LLC	gh, Wake County, North Carolina	

Subdivision

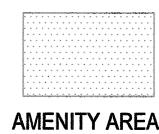
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# LEGEND



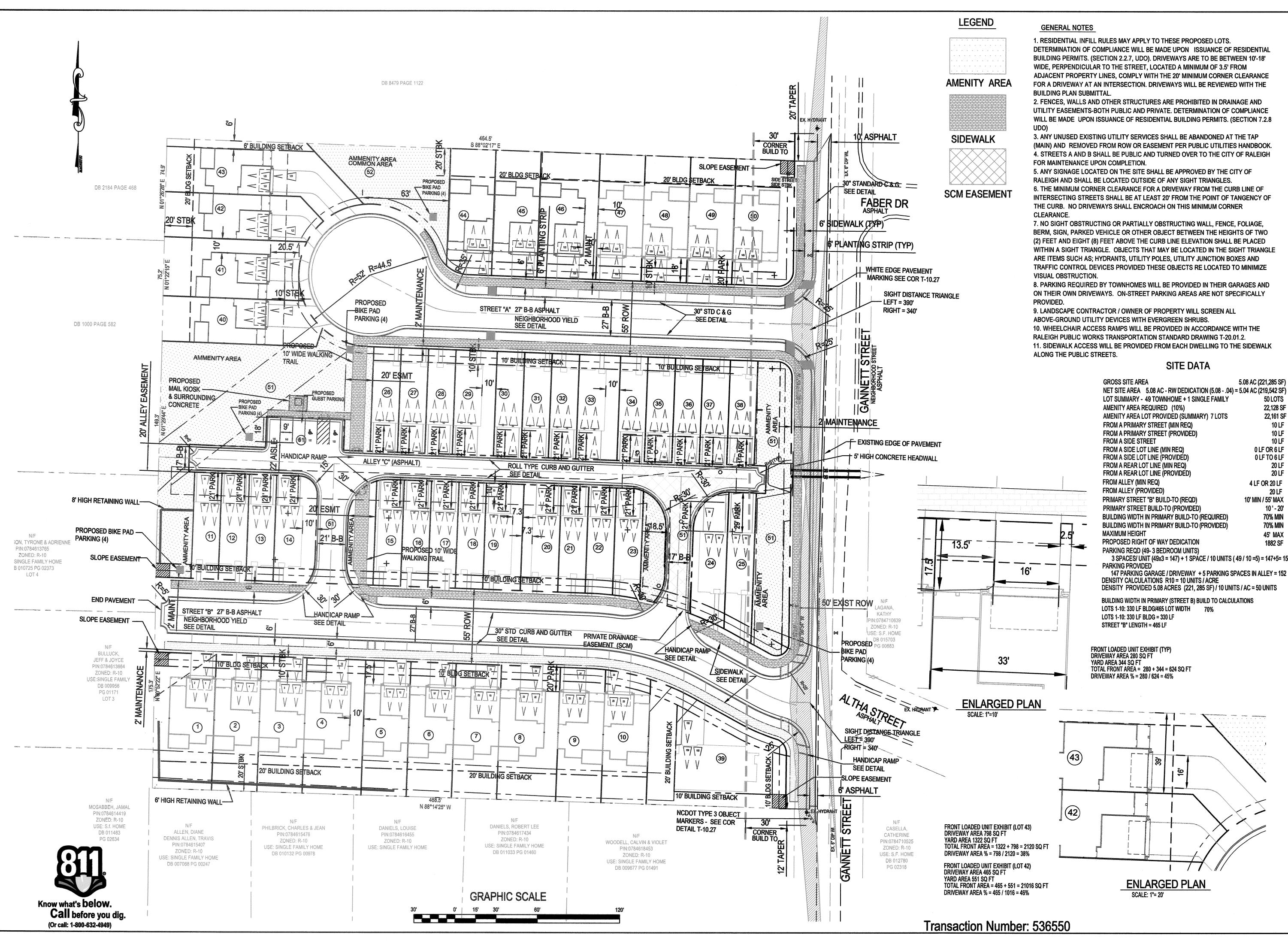
# SCM EASEMENT



ALLEY (COMMON AREA)



Transaction Number: 536550



WILL BE MADE UPON ISSUANCE OF RESIDENTIAL BUILDING PERMITS. (SECTION 7.2.8

(MAIN) AND REMOVED FROM ROW OR EASEMENT PER PUBLIC UTILITIES HANDBOOK. 4. STREETS A AND B SHALL BE PUBLIC AND TURNED OVER TO THE CITY OF RALEIGH

INTERSECTING STREETS SHALL BE AT LEAST 20' FROM THE POINT OF TANGENCY OF

BERM, SIGN, PARKED VEHICLE OR OTHER OBJECT BETWEEN THE HEIGHTS OF TWO WITHIN A SIGHT TRIANGLE. OBJECTS THAT MAY BE LOCATED IN THE SIGHT TRIANGLE TRAFFIC CONTROL DEVICES PROVIDED THESE OBJECTS RE LOCATED TO MINIMIZE

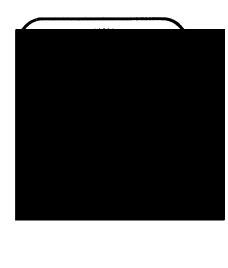
8. PARKING REQUIRED BY TOWNHOMES WILL BE PROVIDED IN THEIR GARAGES AND

11. SIDEWALK ACCESS WILL BE PROVIDED FROM EACH DWELLING TO THE SIDEWALK

NET SHEAREA JUD ACT AN DEDICATION (JUD04)	- J.04 AC (213,042 OF)
LOT SUMMARY - 49 TOWNHOME + 1 SINGLE FAMILY	50 LOTS
AMENITY AREA REQUIRED (10%)	22,128 SF
AMENITY AREA LOT PROVIDED (SUMMARY) 7 LOTS	22,161 SF
FROM A PRIMARY STREET (MIN REQ)	10 LF
FROM A PRIMARY STREET (PROVIDED)	10 LF
FROM A SIDE STREET	10 LF
FROM A SIDE LOT LINE (MIN REQ)	0 LF OR 6 LF
FROM A SIDE LOT LINE (PROVIDED)	0 LF TO 6 LF
FROM A REAR LOT LINE (MIN REQ)	20 LF
FROM A REAR LOT LINE (PROVIDED)	20 LF
FROM ALLEY (MIN REQ)	4 LF OR 20 LF
FROM ALLEY (PROVIDED)	20 LF
PRIMARY STREET "B" BUILD-TO (REQD)	10' MIN / 55' MAX
PRIMARY STREET BUILD-TO (PROVIDED)	10 ' - 20'
BUILDING WIDTH IN PRIMARY BUILD-TO (REQUIRED)	70% MIN
BUILDING WIDTH IN PRIMARY BUILD-TO (PROVIDED)	70% MIN
MAXIMUM HEIGHT	45' MAX
PROPOSED RIGHT OF WAY DEDICATION	1882 SF
PARKING REQD (49-3 BEDROOM UNITS)	
3 SPACES/ UNIT (49x3 = 147) + 1 SPACE / 10 UNITS (	49 / 10 =5) = 147+5= 152

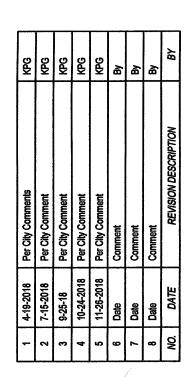
147 PARKING GARAGE / DRIVEWAY + 5 PARKING SPACES IN ALLEY = 152

DENSITY PROVIDED 5.08 ACRES (221, 285 SF) / 10 UNITS / AC = 50 UNITS

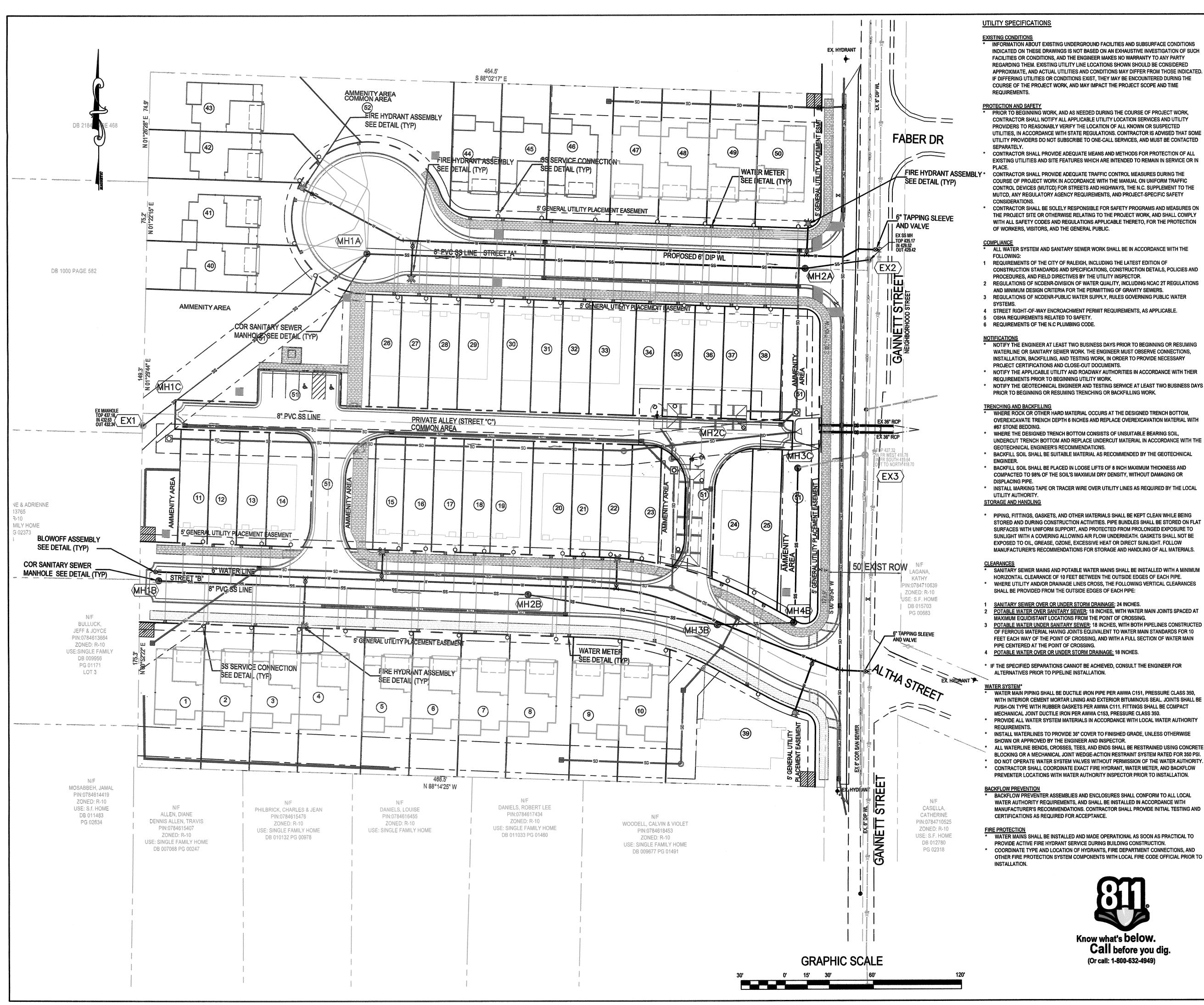












INFORMATION ABOUT EXISTING UNDERGROUND FACILITIES AND SUBSURFACE CONDITIONS INDICATED ON THESE DRAWINGS IS NOT BASED ON AN EXHAUSTIVE INVESTIGATION OF SUCH FACILITIES OR CONDITIONS, AND THE ENGINEER MAKES NO WARRANTY TO ANY PARTY REGARDING THEM. EXISTING UTILITY LINE LOCATIONS SHOWN SHOULD BE CONSIDERED APPROXIMATE, AND ACTUAL UTILITIES AND CONDITIONS MAY DIFFER FROM THOSE INDICATED. IF DIFFERING UTILITIES OR CONDITIONS EXIST, THEY MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT WORK, AND MAY IMPACT THE PROJECT SCOPE AND TIME

PRIOR TO BEGINNING WORK, AND AS NEEDED DURING THE COURSE OF PROJECT WORK, CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY LOCATION SERVICES AND UTILITY PROVIDERS TO REASONABLY VERIFY THE LOCATION OF ALL KNOWN OR SUSPECTED UTILITIES, IN ACCORDANCE WITH STATE REGULATIONS, CONTRACTOR IS ADVISED THAT SOME UTILITY PROVIDERS DO NOT SUBSCRIBE TO ONE-CALL SERVICES, AND MUST BE CONTACTED

CONTRACTOR SHALL PROVIDE ADEQUATE MEANS AND METHODS FOR PROTECTION OF ALL EXISTING UTILITIES AND SITE FEATURES WHICH ARE INTENDED TO REMAIN IN SERVICE OR IN

CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL MEASURES DURING THE COURSE OF PROJECT WORK IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, THE N.C. SUPPLEMENT TO THE MUTCD, ANY REGULATORY AGENCY REQUIREMENTS, AND PROJECT-SPECIFIC SAFETY

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY PROGRAMS AND MEASURES ON THE PROJECT SITE OR OTHERWISE RELATING TO THE PROJECT WORK, AND SHALL COMPLY WITH ALL SAFETY CODES AND REGULATIONS APPLICABLE THERETO, FOR THE PROTECTION

ALL WATER SYSTEM AND SANITARY SEWER WORK SHALL BE IN ACCORDANCE WITH THE

REQUIREMENTS OF THE CITY OF RALEIGH, INCLUDING THE LATEST EDITION OF CONSTRUCTION STANDARDS AND SPECIFICATIONS, CONSTRUCTION DETAILS, POLICIES AND PROCEDURES, AND FIELD DIRECTIVES BY THE UTILITY INSPECTOR 2 REGULATIONS OF NCDENR-DIVISION OF WATER QUALITY, INCLUDING NCAC 2T REGULATIONS

AND MINIMUM DESIGN CRITERIA FOR THE PERMITTING OF GRAVITY SEWERS. 3 REGULATIONS OF NCDENR-PUBLIC WATER SUPPLY, RULES GOVERNING PUBLIC WATER

4 STREET RIGHT-OF-WAY ENCROACHMENT PERMIT REQUIREMENTS, AS APPLICABLE.

NOTIFY THE ENGINEER AT LEAST TWO BUSINESS DAYS PRIOR TO BEGINNING OR RESUMING WATERLINE OR SANITARY SEWER WORK. THE ENGINEER MUST OBSERVE CONNECTIONS. INSTALLATION, BACKFILLING, AND TESTING WORK, IN ORDER TO PROVIDE NECESSARY

NOTIFY THE APPLICABLE UTILITY AND ROADWAY AUTHORITIES IN ACCORDANCE WITH THEIR NOTIFY THE GEOTECHNICAL ENGINEER AND TESTING SERVICE AT LEAST TWO BUSINESS DAYS

WHERE ROCK OR OTHER HARD MATERIAL OCCURS AT THE DESIGNED TRENCH BOTTOM,

WHERE THE DESIGNED TRENCH BOTTOM CONSISTS OF UNSUITABLE BEARING SOIL, UNDERCUT TRENCH BOTTOM AND REPLACE UNDERCUT MATERIAL IN ACCORDANCE WITH THE

BACKFILL SOIL SHALL BE SUITABLE MATERIAL AS RECOMMENDED BY THE GEOTECHNICAL

BACKFILL SOIL SHALL BE PLACED IN LOOSE LIFTS OF 8 INCH MAXIMUM THICKNESS AND COMPACTED TO 98% OF THE SOIL'S MAXIMUM DRY DENSITY, WITHOUT DAMAGING OR

INSTALL MARKING TAPE OR TRACER WIRE OVER UTILITY LINES AS REQUIRED BY THE LOCAL

PIPING, FITTINGS, GASKETS, AND OTHER MATERIALS SHALL BE KEPT CLEAN WHILE BEING STORED AND DURING CONSTRUCTION ACTIVITIES. PIPE BUNDLES SHALL BE STORED ON FLAT SURFACES WITH UNIFORM SUPPORT, AND PROTECTED FROM PROLONGED EXPOSURE TO SUNLIGHT WITH A COVERING ALLOWING AIR FLOW UNDERNEATH. GASKETS SHALL NOT BE EXPOSED TO OIL, GREASE, OZONE, EXCESSIVE HEAT OR DIRECT SUNLIGHT. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR STORAGE AND HANDLING OF ALL MATERIALS.

SANITARY SEWER MAINS AND POTABLE WATER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10 FEET BETWEEN THE OUTSIDE EDGES OF EACH PIPE. WHERE UTILITY AND/OR DRAINAGE LINES CROSS, THE FOLLOWING VERTICAL CLEARANCES SHALL BE PROVIDED FROM THE OUTSIDE EDGES OF EACH PIPE:

SANITARY SEWER OVER OR UNDER STORM DRAINAGE: 24 INCHES.

MAXIMUM EQUIDISTANT LOCATIONS FROM THE POINT OF CROSSING. POTABLE WATER UNDER SANITARY SEWER: 18 INCHES, WITH BOTH PIPELINES CONSTRUCTED OF FERROUS MATERIAL HAVING JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR 10 FEET EACH WAY OF THE POINT OF CROSSING, AND WITH A FULL SECTION OF WATER MAIN

\* IF THE SPECIFIED SEPARATIONS CANNOT BE ACHIEVED, CONSULT THE ENGINEER FOR

 WATER MAIN PIPING SHALL BE DUCTILE IRON PIPE PER AWWA C151, PRESSURE CLASS 350, WITH INTERIOR CEMENT MORTAR LINING AND EXTERIOR BITUMINOUS SEAL. JOINTS SHALL BE PUSH-ON TYPE WITH RUBBER GASKETS PER AWWA C111, FITTINGS SHALL BE COMPACT MECHANICAL JOINT DUCTILE IRON PER AWWA C153, PRESSURE CLASS 350. PROVIDE ALL WATER SYSTEM MATERIALS IN ACCORDANCE WITH LOCAL WATER AUTHORITY

INSTALL WATERLINES TO PROVIDE 36" COVER TO FINISHED GRADE, UNLESS OTHERWISE

ALL WATERLINE BENDS, CROSSES, TEES, AND ENDS SHALL BE RESTRAINED USING CONCRETE BLOCKING OR A MECHANICAL JOINT WEDGE-ACTION RESTRAINT SYSTEM RATED FOR 350 PSI. DO NOT OPERATE WATER SYSTEM VALVES WITHOUT PERMISSION OF THE WATER AUTHORITY. CONTRACTOR SHALL COORDINATE EXACT FIRE HYDRANT, WATER METER, AND BACKFLOW PREVENTER LOCATIONS WITH WATER AUTHORITY INSPECTOR PRIOR TO INSTALLATION.

BACKFLOW PREVENTER ASSEMBLIES AND ENCLOSURES SHALL CONFORM TO ALL LOCAL WATER AUTHORITY REQUIREMENTS, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL PROVIDE INITIAL TESTING AND

PROVIDE ACTIVE FIRE HYDRANT SERVICE DURING BUILDING CONSTRUCTION. COORDINATE TYPE AND LOCATION OF HYDRANTS, FIRE DEPARTMENT CONNECTIONS, AND OTHER FIRE PROTECTION SYSTEM COMPONENTS WITH LOCAL FIRE CODE OFFICIAL PRIOR TO



Know what's below. Call before you dig.

(Or call: 1-800-632-4949)

# UTILITY SPECIFICATIONS (cont.)

# ANITARY SEWER

- SANITARY SEWER MAIN PIPING SHALL BE DUCTILE IRON PIPE PER AWWA C151, PRESSURE CLASS 350, WITH INTERIOR EPOXY LINING AND EXTERIOR BITUMINOUS SEAL. JOINTS SHALL BE PUSH-ON TYPE WITH RUBBER GASKETS PER AWWA C111.
- SANITARY SEWER MAIN PIPING SHALL BE PVC PIPE PER ASTM D3034, SDR 35. JOINTS SHALL BE PUSH-ON TYPE WITH RUBBER GASKETS PER ASTM F477. SANITARY SEWER MAINS SHALL BE INSTALLED WITH 36 INCHES MINIMUM COVER TO
- FINISHED GRADE, EXCEPT AS OTHERWISE SPECIFIED.
- SANITARY SEWER SERVICE LINES AND CLEANOUTS SHALL BE INSTALLED IN ACCORDANCE WITH THE N.C. PLUMBING CODE, AND HAVE 24 INCHES MINIMUM COVER TO FINISHED GRADE. SERVICE LINES SHALL MAINTAIN MAXIMUM SERVICE DEPTH USING A 2.1% SLOPE UNLESS OTHERWISE SPECIFIED
- SERVICE PIPE AND FITTINGS WITHIN PUBLIC STREET RIGHTS-OF-WAY SHALL BE CAST IRON WITH GASKETED JOINTS, AND IN OTHER AREAS SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS, EXCEPT ALL CLEANOUTS SHALL BE FITTED WITH THREADED BRONZE
- SERVICE LINE CLEANOUTS IN VEHICULAR AREAS SHALL BE TRAFFIC BEARING CLEANOUTS.

FOR CONNECTIONS TO EXISTING UTILITY AND DRAINAGE LINES, CONTRACTOR SHALL VERIFY EXISTING PIPE SIZE AND MATERIAL, AND PROVIDE APPROPRIATE CONNECTION

FITTINGS ANY CONNECTION TO EXISTING UTILITES, OR ANY UTILITY SERVICE INTERRUPTION, SHALL BE FIRST COORDINATED WITH THE GOVERNING UTILITY AUTHORITY, AND PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THAT AUTHORITY.

### TESTING AND ACCEPTANCE

- THE GEOTECHNICAL ENGINEER SHALL PROVIDE MATERIAL AND DENSITY TESTING DURING THE COURSE OF THE WORK. PRIOR TO PLACEMENT OF ANY BASE OR PAVEMENT, CONTRACTOR SHALL PROVIDE PROOF-ROLLING OF ALL TRENCH AREAS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- PRIOR TO ANY SANITARY SEWER OR WATER SYSTEM IMPROVEMENTS BEING PLACED INTO SERVICE:
- CONTRACTOR SHALL SUCCESSFULLY TEST ALL WATER MAINS FOR WATER LEAKAGE AND WATER QUALITY IN ACCORDANCE WITH CITY OF RALIEGH AND NCDENR REQUIREMENTS. CONTRACTOR SHALL SUCCESSFULLY TEST ALL SANITARY SEWER MAINS FOR DEFLECTION AND LEAKAGE, AND TEST ALL SANITARY MANHOLES FOR LEAKAGE, IN ACCORDANCE WITH
- CITY OF RALEIGH AND NCDENR REQUIREMENTS. CONTRACTOR SHALL PERFORM VIDEO INSPECTION OF INSTALLED SANITARY SEWER MAINS
- AND PROVIDE DOCUMENTATION PER LOCAL REQUIREMENTS. CONTRACTOR SHALL PROVIDE TO ENGINEER A SET OF MARKED UP DRAWINGS SHOWING UTILITY CHANGES, DIMENSIONAL ADJUSTMENTS, DISCOVERED SUBSURFACE UTILITIES, AND
- OTHER AS-BUILT INFORMATION. CONTRACTOR SHALL PROVIDE DOCUMENTATION OF ALL TESTING RESULTS TO ENGINEER
- ALL IMPROVEMENTS SHALL PASS FINAL INSPECTION BY ENGINEER AND THE UTILITY AUTHORITY
- ENGINEER SHALL SUBMIT ALL CERTIFICATIONS AND OTHER CLOSE-OUT DOCUMENTS TO APPLICABLE LOCAL AND STATE AUTHORITIES.

#### CONTRACTOR SHALL PROVIDE PRIMARY COORDINATION WITH UTILITY SERVICE PROVIDERS FOR BUILDING UTILITY SERVICES. THIS WORK SHALL INCLUDE MAKING APPLICATIONS FOR SERVICE, COORDINATING AND SCHEDULING WORK BY OTHERS, VERIFYING ROUTINGS AND EQUIPMENT LOCATIONS, FURNISHING AND INSTALLING CONDUIT AND PADS, AND RELATED

WORK AS NEEDED. CONTRACTOR SHALL PROVIDE PROPER RESTORATION AND CLEAN-UP OF ALL AREAS DISTURBED BY UTILITY CONSTRUCTION.

## CITY OF RALEIGH UTILITY NOTES:

1.ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: COR PUD HANDBOOK, CURRENT

2.UTILITY SEPARATION REQUIREMENTS: a) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS

THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL b) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL

DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER c) WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION. OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE

SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS d) 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER

e) MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & S-49)

f) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED 3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION

4. ONTRACTOR SHALL MAINTAIN CONTINUOUS WATER TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT 5. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS. 4' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.

6. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISITING WATER AND SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE 7. INSTALL <sup>3</sup> COPPER WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'x2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. (NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW AND PRESSURE). 8. INSTALL 4" PVC SEWER SERVICES AT 1.0% MINIMUM GRADE WITH CLEANOUTS

LOCATED AT ROW OR EASEMENT LINE AND SPACED EVERY 75 LINEAR FEET 9. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER

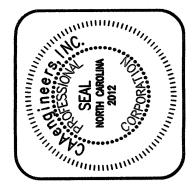
SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE. 10. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO

CONSTRUCTION 11. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS AND SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION

12. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS AND INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONTACT TIM BEASLEY AT (919)996-2334 OR

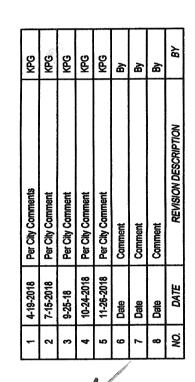
TIMOTHY.BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION. 13. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE **GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET** AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST.~THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 212-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION

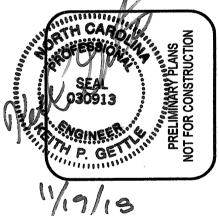






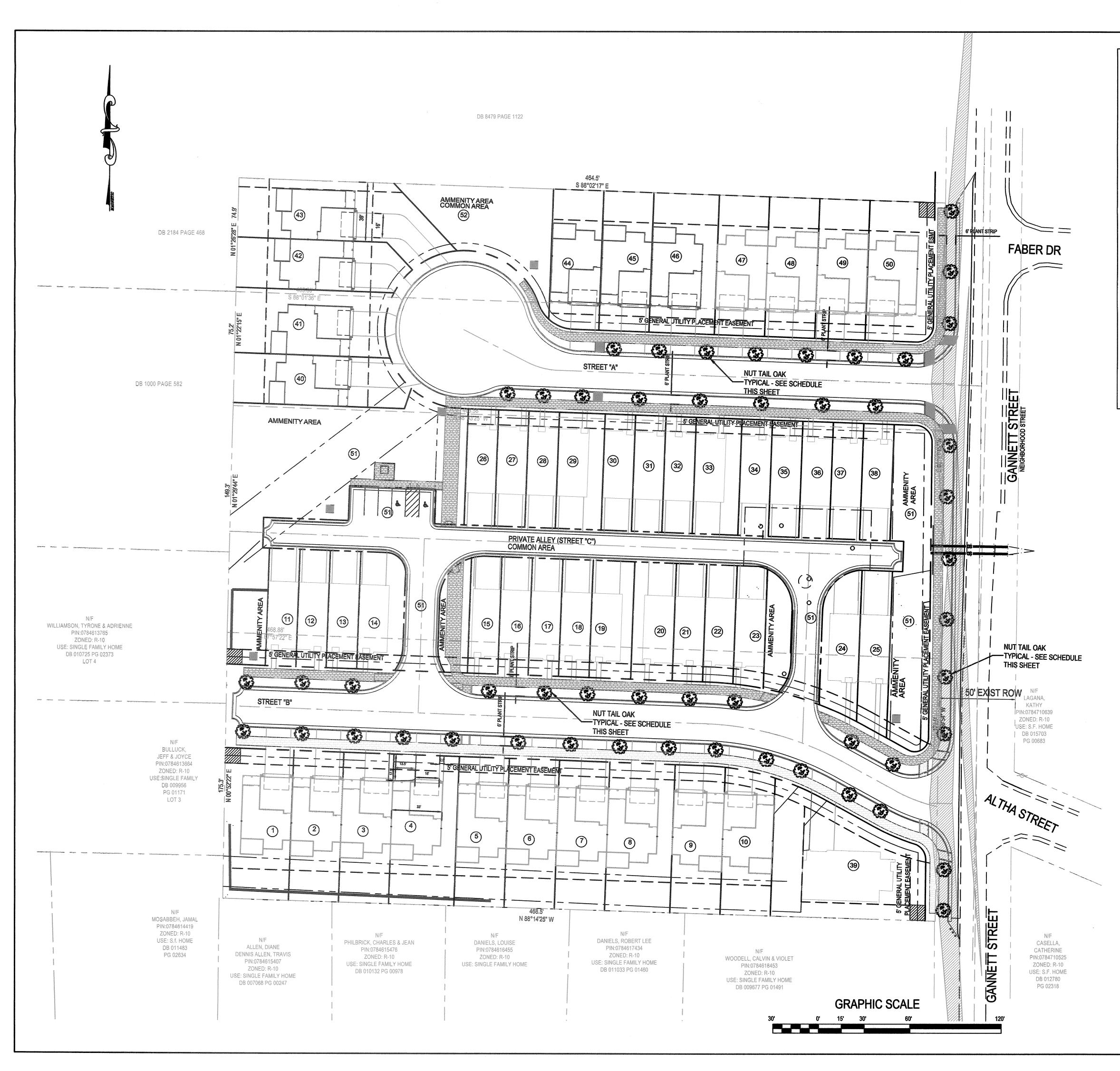


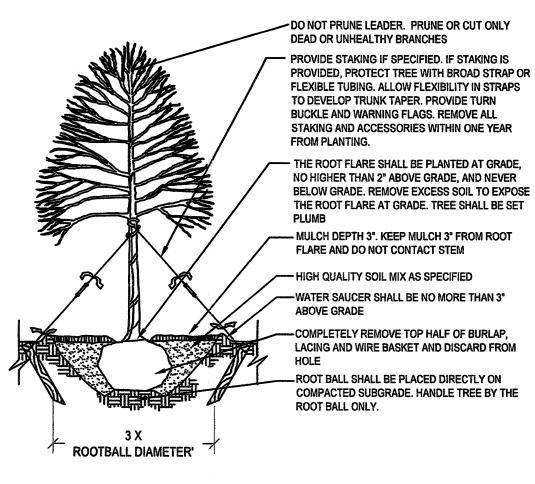




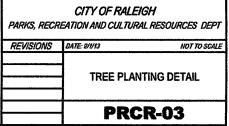


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Job No.	Dwg No.	S





- NOTES:
- 1. CONTRACTOR IS RESPONSIBLE FOR
- ADEQUATE DRAINAGE OF ALL PLANTING PITS. (POSITIVE DRAINAGE AWAY FROM PIT)
- 2. ADHERE TO STANDARDS IN THE CITY TREE MANUAL
- 3. STREET TREES MUST BE 3" CALIPER AT **INSTALLATION WITH A 5' MINIMUM FIRST**
- BRANCH HEIGHT.
- PLANTING SEASON OCTOBER APRIL. 5. A TREE IMPACT PERMIT IS REQUIRED.
- 6. ELECTRICAL OUTLETS AND OTHER UTILITIES ARE PROHIBITED IN THE PLANTING AREA IMMEDIATELY SURROUNDING THE TREE.



DEAD OR UNHEALTHY BRANCHES

FROM PLANTING.

ABOVE GRADE

ROOT BALL ONLY.

PLUMB

HOLE

TO DEVELOP TRUNK TAPER. PROVIDE TURN

- THE ROOT FLARE SHALL BE PLANTED AT GRADE, NO HIGHER THAN 2" ABOVE GRADE, AND NEVER BELOW GRADE. REMOVE EXCESS SOIL TO EXPOSE

LACING AND WIRE BASKET AND DISCARD FROM

ROOT BALL SHALL BE PLACED DIRECTLY ON COMPACTED SUBGRADE. HANDLE TREE BY THE

CONTACT INFORMATION:

TREES@RALEIGHNC.GOV

WWW.RALEIGHNC.GOV

CITY OF RALEIGH PARKS, RECREATION AND CULTURAL

RESOURCES DEPARTMENT URBAN FORESTER:

FLARE AND DO NOT CONTACT STEM

## PLANTING NOTES

1. STREET TREES WILL BE REQUIRED ON STREET "A" AT 40' ON CENTER WITHIN THE RIGHT OF WAY IN A 6 FOOT TREE LAWN.

2. EACH TREE WILL REQUIRE 600 CUBIC FEET OF IMPROVED/UNCOMPACTED SOIL BETWEEN THE CURB AND SIDEWALK.

3. TWO YEAR MAINTENANCE AND WARRENTY WILL BE REQUIRED FOR THE TREES AND CAN BE FOUND IN THE RALEIGH STREET DESIGN MANUAL SECTIONS 6.18.1 AND 6.18.2. 4. A TREE IMPACT PERMIT WILL BE REQUIRED PRIOR TO TREE INSTALLATION. 5. A FEE-IN-LIEU MAY BE REQUIRED FOR FRONTAGE ALONG GANNETT STREET IF NOT INSTALLED DUE TO DEFERRED ROADWAY IMPROVEMENTS.

PLANT LIS	ST				
STREET	KEY	BOTANICAL NAME	COMMON NAME	CALIPER	QUAN.
GANNETT	NO	Quercus nuttallii	Nuttall oak	3"	416/40 = 10
STREET A	NO	Quercus nuttallii	Nuttall oak	3"	280/40*2 = 14
STREET B	NO	Quercus nuttallii	Nuttall oak	3"	465/40*2 = 23

# SCOPE OF WORK

FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED OR INDICTED BY THE DRAWINGS AND SPECIFICATIONS TO COMPLETE THE WORK INCLUDING INSTALLATION OF ALL TREES, SHRUBS, GROUNDCOVER, ANNUALS, SEED, SOD AND MULCH.

# MATERIALS AND WORK

THE SELECTION OF ALL MATERIALS AND THE EXECUTION OF ALL WORK REQUIRED UNDER THE CONTRACT SHALL BE SUBJECT TO APPROVAL BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT TO REJECT AND SUBSTITUTE ALL MATERIALS AND ANY AND ALL WORK, WHICH IN HIS OPINION, DOES NOT MEET THE REQUIREMENTS OF THE CONTRACT.

# GENERAL PLANTING NOTES

1. ALL LAWN AREAS TO BE SEEDED WITH "REBEL IV", CONFEDERATE PLUS, OR FESCO TALL TURF TYPE FESCUE.

2. ALL MULCH TO BE DOUBLE SHREDDED HARDWOOD. NO PINE STRAW MULCH ADJACENT TO STRUCTURES.

3. PLANT MATERIAL ON THIS SITE MUST BE INSTALLED IN CONFORMANCE WITH THE GENERAL PLANTING NOTES AND DETAILS ON THIS PLAN OR TO THE STANDARDS OF THE

CITY OF RALEIGH CODE OF ORDINANCES. 4. ALL PLANTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN.

5. OWNERS SHALL MAINTAIN ALL PLANT BEDS AND PLANT MATERIAL IN GOOD HEALTH, AND ANY DEAD, UNHEALTHY, OR MISSING PLANTS SHALL BE REPLACED WITH LOCALLY ADAPTED VEGETATION WHICH CONFORMS TO THE INITIAL PLANTING STANDARDS OF THE LANDSCAPING ORDINANCE.

6. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ANY UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. 7. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND

UTILITIES, SITE FEATURES, OR STRUCTURES. 8. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED PERMITS AND

LICENSES TO PERFORM THE REQUIRED WORK. 9. ALL PLANT BEDS SHALL BE TREATED WITH PRE-EMERGENT WEED CONTROL (I.E.

TREFLAN). 10. ALL PLANTS SHALL BE VIGOROUS, HEALTHY MATERIAL FREE FROM PESTS AND DISEASE.

# **RETAINING EXISTING VEGETATION**

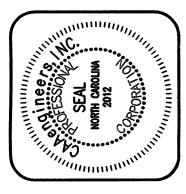
ALL EXISTING HEALTHY VEGETATION (NON INVASIVE TREES, SHRUBS, ETC) THAT EXISTS OUTSIDE THE PROPOSED DISTURBED AREAS OF THIS DEVELOPMENT IS TO BE RETAINED TO THE MOST PRACTICAL EXTENT POSSIBLE.

# BUFFERS AND TRANSITIONAL YARDS

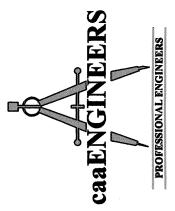
1. TRANSITIONAL PROTECTIVE YARDS ARE NOT REQUIRED. 2. STREET PROTECTIVE YARDS ARE NOT REQUIRED.

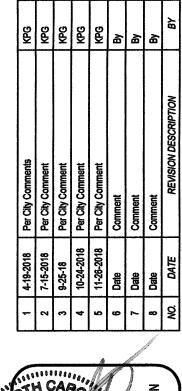
3. VEHICULAR SURFACE AREA PLANTINGS ARE NOT REQUIRED.

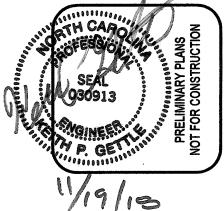
4. STREET TREES ARE PROVIDED AT 40' ON CENTER.













Know what's below. Call before you dig. (Or call: 1-800-632-4949)

