TOWN OF CHAPEL HILL **CONDITIONAL ZONING Planning Department APPLICATION** 405 Martin Luther King Jr. Blvd. (919) 968-2728 fax (919) 969-2014 www.townofchapelhill.org Revised: August 26, 2022 Parcel Identifier Number (PIN): 9870907642 Date: June 27, 2022 Section A: Project Information Project Name: Tri Pointe Townhomes **Property Address:** 2217 Homestead Road, Chapel Hill, NC Zip Code: 27516 Use Groups (A, B, and/or C): R-5 А **Existing Zoning District:** 103 Townhome Units **Project Description:** Section B: Applicant, Owner, and/or Contract Purchaser Information Applicant Information (to whom correspondence will be mailed): Name: **Richard Gurlitz** Address: 121 S. Estes Drive Suite 100 City: Chapel Hill, State: NC Zip Code: 27514 Phone: 919-489-9000 Email: richard@gurlitzarchitects.com The undersigned applicant hereby certifies that, to the best of their knowledge and belief, all information supplied with this application and accurate. Digitally signed by Richard Gurlitz DN: cn=Richard Gurlitz, 0=GS Homestead, LLC, ou=Manager, email=richard@gurlitzarchitects.com .c=US Date: 2022.10.07 14:29:49 -04'00' Richard Date: October 7, 2022 Signature: Gurlitz **Owner/Contract Purchaser Information:** 🛛 Owner **Contract Purchaser** GS Homestead, LLC Name: 121 S. Estes Drive Suite 100 Address: Zip Code: 27514 City: Chapel Hill State: NC 919-489-9000 richard@gurlitzarchitects.com Phone: Email: The undersigned applicant hereby certifies that, to the best of their knowledge and belief, all information Digitally signed by Richard Gurlitz DN: cn=Richard Gurlitz, o=GS Homestead, LLC, ou=Manager, email=richard@gurlitzarchitects.co supplied with this application and accurate. Richard October 7, 2022 Signature: Gurlitz Date: m, c=US Date: 2022.10.07 14:30:20 -04'00' Click here for application submittal instructions.

Page **1** of **11**

06.08.2020

CONDITIONAL ZONING



TOWN OF CHAPEL HILL Planning Department

Conditional Rezoning applications are reviewed by staff, Planning Commission, and Town Council. The application is part of an open public process that enables Town Council to discuss and decide on the key issues of a rezoning proposal. If a rezoning is approved, the applicant may then submit a detailed final plan application to staff for compliance review with the technical development standards and with the Council rezoning approval.

The establishment of a Conditional Zoning District shall be consistent with the Land Use Plan in the Comprehensive Plan. A proposed Conditional Zoning District is deemed consistent if the proposed District will be located in conformance with an adopted small area plan and/or in one of the following Land Use Categories:

- Medium Residential
- High Residential
- Commercial
- Mixed Use, Office/Commercial Emphasis
- Mixed Use, Office Emphasis
- Town/Village Center
- Institutional
- Office
- University
- Development Opportunity Area
- Light Industrial Opportunity Area

If the proposed conditional zoning districts is located in a Low Residential or a Rural Residential Land Use Category, the Town Council must approve a Land Use Plan amendment prior to proceeding.

SIGNED CONDITIONS: All conditions shall be in writing, prepared by the owner of the property or an attorney and must be signed by all property owners and contract purchasers, if applicable. The Town Attorney may require additional signatures if necessary and will determine whether or not the conditions statement is legally sufficient. Within thirty (30) days after receipt of the conditions the Planning Division Manager will notify the applicant of any deficiencies in the conditions statement or if any additional information is needed. The applicant may make changes to the written conditions statement provided it is submitted at least thirty (30) prior to Planning Commission meeting or thirty (30) days prior to Town Council public hearing.

RECORDATION OF CONDITIONS: After a rezoning has been approved by the Town Council, the conditions statement shall be recorded with the Register of Deeds Office. After a rezoning has been approved by Town Council and recorded by the Register of Deeds Office, the conditions may not be amended except through a new rezoning application.

PROJECT FACT SHEET

TOWN OF CHAPEL HILL

Planning Department

Total (sq. ft.)

sq. ft.

sq. ft.

sq. ft.

sq. ft.



Secti

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Section A: Project Information						
Use Type: (check/list all that apply)						
Office/Institutional Kes	idential 🗌 Mixed-Use	Other:				
Overlay District: (check all that app	ly)					
Historic District	nborhood Conservation Distr	ict 🗌 Airport Haza	rd Zone			
Section B: Land Area						
Net Land Area (NLA): Area within zoning	g lot boundaries			NLA=	678,842	sq
Choose one, or both, of	Street Area (total adjacent	frontage) x ½ width of p	ublic right-	CSA=	15,094	sq
	l Permanent Open Space (to open space	tal adjacent frontage) x	½ public or	COS=	52,790	sq
TOTAL: NLA + CSA and/or COS = Gross	Land Area (not to exceed NL	A + 10%)		GLA=	746,726	sq
Special Protection Areas: (check all	Conservation District] 100 Year Floodplain	U Waters	hed Pro	otection Dis	
Area of Land Disturbance (Includes: Footprint of proposed activity pl all grading, including off-site clearing) Area of Land Disturbance within RCD	us work area envelope, staging	area for materials, access/	equipment path	ns, and	566,437 S	\sim
Area of Land Disturbance within Jordan	Buffer				0	
Impervious Areas	Existing (sq. ft.)	Demolition (sq. ft.)	Proposed (s	sq. ft.)	Total (sq. f
Impervious Surface Area (ISA)	15,438	15,438	270,712		270,712	7
Impervious Surface Ratio: Percent Impe Surface Area of Gross Land Area (ISA/GI If located in Watershed Protection Distr	LA)% {	2.0%	36.25%	<u>د د د د</u>	36.25%	}
of impervious surface on 7/1/1993			<u> </u>			

PROJECT FACT SHEET



TOWN OF CHAPEL HILL Planning Department

Section D: Dimensions

Dimensional Unit (sq. ft.)	Existing (sq. ft.)	Demolition (sq. ft.)	Proposed (sq. ft.)	Total (sq. ft.)
Number of Buildings	1	1	108 Bldg - 216,000 SF	216,000 SF
Number of Floors	2	2	2	2
Recreational Space	0	0	34,085	34,085

	Residentia	l Space		
Dimensional Unit (sq. ft.)	Existing (sq. ft.)	Demolition (sq. ft.)	Proposed (sq. ft.)	Total (sq. ft.)
Floor Area (all floors – heated and unheated)	4001	4001	216,000	216,000
Total Square Footage of All Units	4001	4001	216,000	216,000 👌
Total Square Footage of Affordable Units			32,000	32,000
Total Residential Density			6.9/AC	6.9/AC
Number of Dwelling Units	1	1	108	108
Number of Affordable Dwelling Units	0	0	16	16
Number of Single Bedroom Units			0	0
Number of Two Bedroom Units			0	0 }
Number of Three Bedroom Units	1	1	108	108

	Non-Re	sidential Space (Gro	oss Floor Area in Squa	re Feet)	
Use Type	Existing	Proposed	Uses	Existing	Proposed
Commercial					
Restaurant			# of Seats		
Government					
Institutional					
Medical					
Office					
Hotel			# of Rooms		
Industrial					
Place of Worship			# of Seats		
Other					

	Dimensional Requirements	Required by Ordinance	Existing	Proposed
	Street	20	NA	20
Setbacks (minimum)	Interior (neighboring property lines)	6	NA	6
(minimum)	Solar (northern property line)	8	NA	8
Height	Primary	39	NA	39
(maximum)	Secondary	60	NA	39
Chura ata	Frontages	40	NA	40
Streets	Widths	50	NA	50



PROJECT FACT SHEET TOWN OF CHAPEL HILL Planning Department

Section F: Adjoining or Connecting Streets and Sidewalks

Note: For approval of proposed street names, contact the Engineering Department.

Street Name	Right-of-Way Width	Pavement Width	Number of Lanes	Existing Sidewalk*	Existing Curb/Gutter
Homestead Road	60'	Variable	2-3 lanes	Yes	Yes
Kipling Drive	45	27	2	🛛 Yes	🛛 Yes

List Proposed Points of Access (Ex: Number, Street Name):

*If existing sidewalks do not exist and the applicant is adding sidewalks, please provide the following information:

	Sidewalk I	nformation	
Street Names	Dimensions	Surface	Handicapped Ramps
Homestead Road	10' Multi Use	Asphalt	Yes 🗌 No 🗌 N/A
			Yes No N/A

Section G: Parking Information

Parking Spaces	Minimum	Maximum	Proposed
Regular Spaces	189	243	216
Handicap Spaces			3
Total Spaces	NA	NA	234
Guest Spaces	NA	NA	18
Bicycle Spaces			27
Surface Type		· · · ·	

Section H: Landscape Buffers

Minimum Width	Proposed Width	Alternate Buffer	Modify Buffer
15Feet B	15 Feet	Yes	🛛 Yes
10 Feet B	10 Feet	Yes	🛛 Yes
10 Feet B	10 Feet	Yes	🛛 Yes
C None	None }	Yes	🛛 Yes
	15Feet B 10 Feet B 10 Feet B	15Feet B15 Feet10 Feet B10 Feet10 Feet B10 Feet	15Feet B 15 Feet Yes 10 Feet B 10 Feet Yes 10 Feet B 10 Feet Yes

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PROJECT FACT SHEET TOWN OF CHAPEL HILL Planning Department



Section I: Land Use Intensity

Existing Zoning District:

Proposed Zoning Change (*if any*):

Z	oning – Area – Ra	tio	Imperv	vious Surface Thre	sholds	Minimum and Limita	
Zoning District(s)	Floor Area Ratio (FAR)	Recreation Space Ratio (RSR)	Low Density Residential (0.24)	High Density Residential (0.50)	Non- Residential (0.70)	Maximum Floor Area (MFA) = FAR x GLA	Minimum Recreation Space (MSR) = RSR x GLA
R-5	.303	.050		373,363		226,258	34,085
ADU BONUS						54,400	
TOTAL						280,658	34,085
RCD Streamside		0.01					NA
RCD Managed		0.019					NA
RCD Upland							NA

Section J: Utility Service

Check all that apply:				
Water	🖂 OWASA	Individual Well	Community Well	Other
Sewer	🖂 OWASA	Individual Septic Tank	Community Package Plant	Other
Electrical	🛛 Underground	Above Ground		
Telephone	🛛 Underground	Above Ground		
Solid Waste	🔀 Town	Private		



Planning Department

A	pplication fee (including Engineering Review fee) (refer to fee schedule) Amount Paid \$	63,368.80
Р	e-application meeting –with appropriate staff	
D	gital Files – provide digital files of all plans and documents	
R	ecorded Plat or Deed of Property	
P	oject Fact Sheet	
Т	affic Impact Statement – completed by Town's consultant (or exemption)	
D	escription of Public Art Proposal, if applicable	
	atement of Justification	
	esponse to Community Design Commission and Town Council Concept Plan comments, if applicable	e
	ifordable Housing Proposal, if applicable	
	atement of Consistency with Comprehensive Plan or request to amend Comprehensive Plan	
	ailing list of owners of property within 1,000 feet perimeter of subject property (see GIS notification	n tool)
	alling fee for above mailing list (mailing fee is double due to 2 mailings) Amount Paid \$	137
	ritten Narrative describing the proposal, including proposed land uses and proposed conditions	157
		ttala
	esource Conservation District, Floodplain, & Jordan Buffers Determination – necessary for all submi	lldis
	risdictional Wetland Determination – if applicable	
	esource Conservation District Encroachment Exemption or Variance (determined by Planning)	
	rdan Buffer Authorization Certificate or Mitigation Plan Approval (determined by Planning)	
	educed Site Plan Set (reduced to 8.5" x 11")	
R	educed Site Plan Set (reduced to 8.5" x 11")	
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- o) Peak discharge calculations and rates (1, 2, and 25-year storms)
- p) Hydrographs for pre- & post-development without mitigation, post-development with mitigation
- q) Volume calculations and documentation of retention for 2-year storm



CONDITIONAL ZONING APPLICATION SUBMITTAL REQUIREMENTS TOWN OF CHAPEL HILL Planning and Development Services

- r) 85% TSS removal for post-development stormwater runoff
- s) Nutrient loading calculations
- t) BMP sizing calculations
- u) Pipe sizing calculations and schedule (include HGL & EGL calculations and profiles)

Plan Sets (10 copies to be submitted no larger than 24" x 36")

Plans should be legible and clearly drawn. All plan set sheets should include the following:

- Project Name
- Legend
- Labels
- North Arrow (North oriented toward top of page)
- Property boundaries with bearing and distances
- Scale (Engineering), denoted graphically and numerically
- Setbacks
- Streams, RCD Boundary, Jordan Riparian Buffer Boundary, Floodplain, and Wetlands Boundary, where applicable
- Revision dates and professional seals and signatures, as applicable

Cover Sheet

a) Include Project Name, Project fact information, PIN, and Design Team

Area Map

- a) Project name, applicant, contact information, location, PIN, & legend
- b) Dedicated open space, parks, greenways
- c) Overlay Districts, if applicable
- d) Property lines, zoning district boundaries, land uses, project names of site and surrounding properties, significant buildings, corporate limit lines
- e) Existing roads (public & private), rights-of-way, sidewalks, driveways, vehicular parking areas, bicycle parking, handicapped parking, street names
- f) 1,000' notification boundary

Existing Conditions Plan

- a) Slopes, soils, environmental constraints, existing vegetation, and any existing land features
- b) Location of all existing structures and uses
- c) Existing property line and right-of-way lines
- d) Existing utilities & easements including location & sizes of water, sewer, electrical, & drainage lines
- e) Nearest fire hydrants
- f) Nearest bus shelters and transit facilities
- g) Existing topography at minimum 2-foot intervals and finished grade
- h) Natural drainage features & water bodies, floodways, floodplain, RCD, Jordan Buffers & Watershed boundaries



Planning and Development Services

Detailed Site Plan

- a) Existing and proposed building locations
- b) Description & analysis of adjacent land uses, roads, topography, soils, drainage patterns, environmental constraints, features, existing vegetation, vistas (on and off-site)
- c) Location, arrangement, & dimension of vehicular parking, width of aisles and bays, angle of parking, number of spaces, handicapped parking, bicycle parking. Typical pavement sections & surface type.
- d) Location of existing and proposed fire hydrants
- e) Location and dimension of all vehicle entrances, exits, and drives
- f) Dimensioned street cross-sections and rights-of-way widths
- g) Pavement and curb & gutter construction details
- h) Dimensioned sidewalk and tree lawn cross sections
- i) Proposed transit improvements including bus pull-off and/or bus shelter
- j) Required landscape buffers (or proposed alternate/modified buffers)
- k) Required recreation area/space (including written statement of recreation plans)
- I) Refuse collection facilities (existing and proposed) or shared dumpster agreement
- m) Construction parking, staging, storage area, and construction trailer location
- n) Sight distance triangles at intersections
- o) Proposed location of street lights and underground utility lines and/or conduit lines to be installed
- p) Easements
- q) Clearing and construction limits
- r) Traffic Calming Plan detailed construction designs of devices proposed & associated sign & marking plan

Stormwater Management Plan

- a) Topography (2-foot contours)
- b) Existing drainage conditions
- c) RCD and Jordan Riparian Buffer delineation and boundary (perennial & intermittent streams; note ephemeral streams on site)
- d) Proposed drainage and stormwater conditions
- e) Drainage conveyance system (piping)
- f) Roof drains
- g) Easements
- h) BMP plans, dimensions, details, and cross-sections
- i) Planting and stabilization plans and specifications

Landscape Protection Plan

- a) Rare, specimen, and significant tree survey within 50 feet of construction area
- b) Rare and specimen tree critical root zones
- c) Rare and specimen trees proposed to be removed
- d) Certified arborist tree evaluation, if applicable
- e) Significant tree stand survey
- f) Clearing limit line
- g) Proposed tree protection/silt fence location
- h) Pre-construction/demolition conference note
- i) Landscape protection supervisor note
- j) Existing and proposed tree canopy calculations, if applicable

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06.08.2020



Planning and Development Services

Planting Plan

- a) Dimensioned and labeled perimeter buffers
- b) Off-site buffer easement, if applicable
- c) Landscape buffer and parking lot planting plan (including planting strip between parking and building, entryway planting, and 35% shading requirement

Steep Slope Plan

- a) Classify and quantify slopes 0-10%, 10-15%, 15-25%, and 25% and greater
- b) Show and quantify areas of disturbance in each slope category
- c) Provide/show specialized site design and construction techniques

Grading and Erosion Control Plan

- a) Topography (2-foot contours)
- b) Limits of Disturbance
- c) Pertinent off-site drainage features
- d) Existing and proposed impervious surface tallies

Streetscape Plan, if applicable

- a) Public right-of-way existing conditions plan
- b) Streetscape demolition plan
- c) Streetscape proposed improvement plan
- d) Streetscape proposed utility plan and details
- e) Streetscape proposed pavement/sidewalk details
- f) Streetscape proposed furnishing details
- g) Streetscape proposed lighting detail

Solid Waste Plan

- a) Preliminary Solid Waste Management Plan
- b) Existing and proposed dumpster pads
- c) Proposed dumpster pad layout design
- d) Proposed heavy duty pavement locations and pavement construction detail
- e) Preliminary shared dumpster agreement, if applicable



Planning and Development Services

Construction Management Plan

- a) Construction trailer location
- b) Location of construction personnel parking and construction equipment parking
- c) Location and size of staging and materials storage area
- d) Description of emergency vehicle access to and around project site during construction
- e) Delivery truck routes shown or noted on plan sheets

Energy Management Plan

- a) Description of how project will be 20% more energy efficient than ASHRAE standards
- b) Description of utilization of sustainable forms of energy (Solar, Wind, Hydroelectric, and Biofuels)
- c) Participation in NC GreenPower program
- d) Description of how project will ensure indoor air quality, adequate access to natural lighting, and allow for proposed utilization of sustainable energy
- e) Description of how project will maintain commitment to energy efficiency and reduced carbon footprint over time
- f) Description of how the project's Transportation Management Plan will support efforts to reduce energy consumption as it affects the community

Exterior Elevations

a) An outline of each elevation of the building, including the finished grade line along the foundation (height of building measured from mean natural grade)

HOMESTEAD ROAD TOWNHOMES

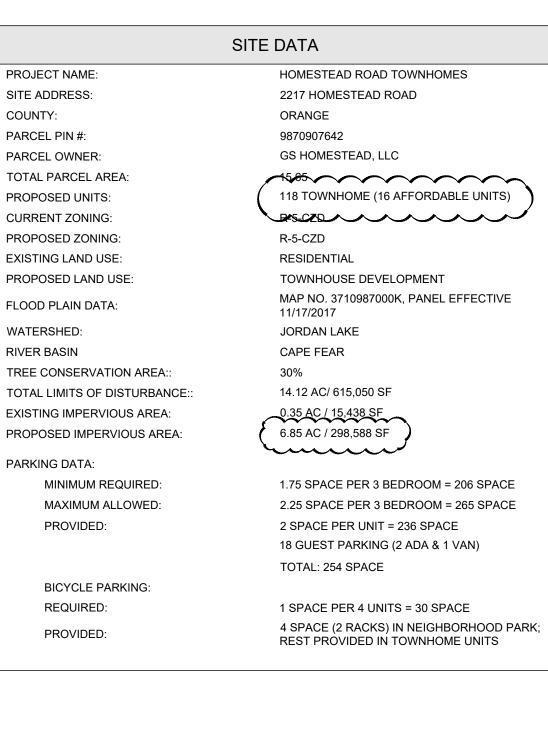
CONSULTANT:



APPLICANT:

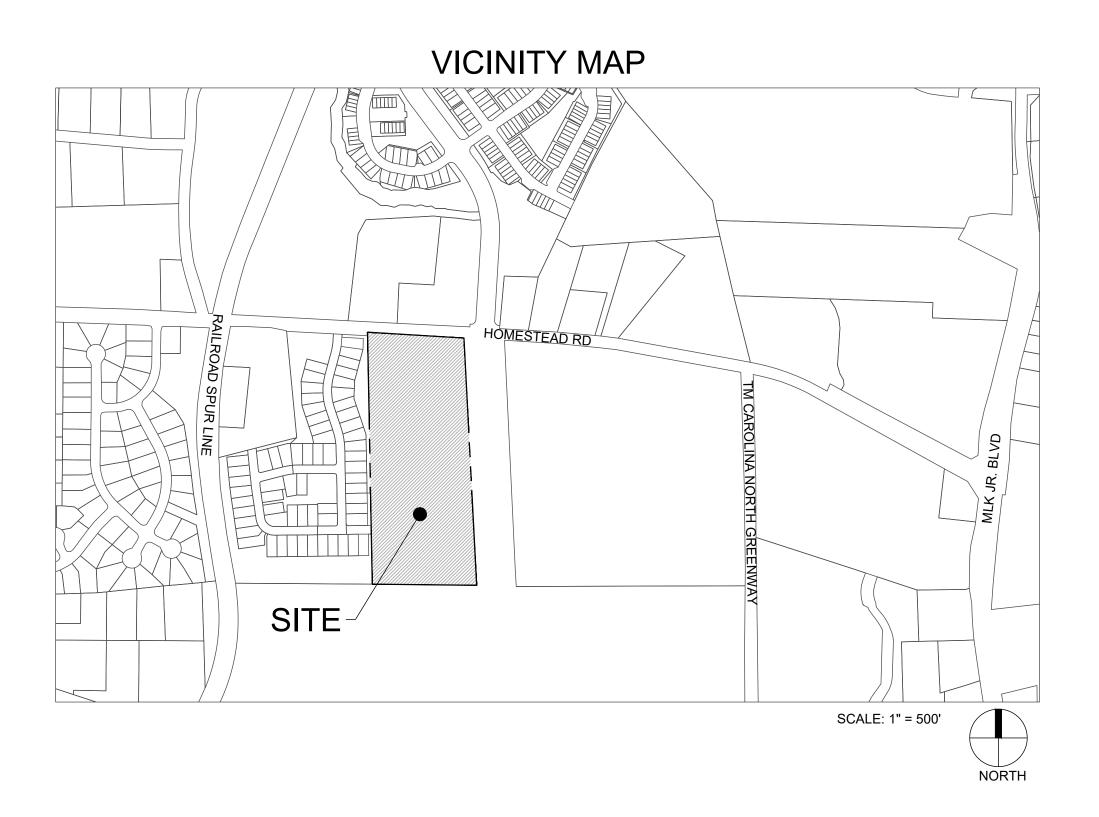
GS HOMESTEAD, LLC 121 S. ESTES DRIVE, SUITE 100 CHAPEL HILL, NC 2514

PARCEL INFORMATION:



CONDITIONAL ZONING PERMIT

JUNE 24, 2022 2217 HOMESTEAD ROAD CHAPEL HILL, NORTH CAROLINA 2ND RESUBMITTAL - OCTOBER 7,2022 3RD RESUBMITTAL - FEBRUARY 13, 2023



INDEX OF DRAWINGS					
Sheet #	SHEET NAME				
C0.00	COVER SHEET				
C0.10	GENERAL NOTES				
C0.20	AREA MAP				
C1.00	EXISTING CONDITIONS & DEMOLITION PLAN				
C1.10	STEEP SLOPE ANALYSIS				
C1.20	CONSTRUCTION MANAGEMENT PLAN				
C3.00	SITE PLAN				
C3.10	TRASH MANAGEMENT & FIRE APPARATUS PLAN				
C3.90	SITE DETAILS				
C3.91	SITE DETAILS				
C5.00	GRADING & STORM DRAINAGE PLAN				
C6.00	UTILITY PLAN				
L7.00	CODE PLANTING PLAN				
L7.10	LANDSCAPE PROTECTION PLAN				
L7.11	LANDSCAPE PROTECTION PLAN - TREE SURVEY				
L7.90	PLANTING & SOILS DETAILS				
A1.00	EXTERIOR ELEVATION				

Sheet #:

C0.00

GENERAL NOTES:	SITE NOTES:
 ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE OFFICE OF STATE CONSTRUCTION, DEPARTMENT OF INSURANCE, NCDENR, AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES. ALL UTILITY CONSTRUCTION SHALL COMPLY WITH APPLICABLE LOCAL JURISDICTIONAL STANDARDS AND SPECIFICATIONS. 	1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE CONSTRUCTION LAYDOWN AREA, PERIMETER FENCE, AND ASSOCIATED GATES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE REMOVAL OF THE CONSTRUCTION LAYDOWN AREA PERIMETER FENCE AND ASSOCIATED GATES AT THE COMPLETION OF THE PROJECT.
2. EXISTING SURVEY INFORMATION INCLUDING TOPOGRAPHIC INFORMATION PROVIDED BY STEWART, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.	2. THE CONTRACTOR SHALL REFERENCE THE DESIGN PLANS FOR DIMENSIONS, JOINT LOCATIONS, AND INLAY SPECIFICATIONS NEAR BUILDINGS AND IN COURTYARDS. CONTRACTOR SHALL PROVIDE JOINTS IN WALKWAYS AND HARDSCAPE PER DETAILS OR AS INDICATED ON LANDSCAPE/HARDSCAPE PLAN SHEETS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL	 REFER TO ARCHITECTURAL PLANS FOR BUILDING INFORMATION. ALL DIMENSIONS ARE IN DECIMAL FEET TO OUTSIDE FACE OF BUILDINGS, TO CENTERLINES, AND/OR FACE OF
PROVIDE NOTICE OF EXCAVATION TO NOTIFICATION CENTER AND FACILITY OWNERS (PER NC STATUTE) NO LESS THAN 3 BUSINESS DAYS AND NO MORE THAN 12 WORKING DAYS PRIOR TO BEGINNING DEMOLITION, EXCAVATION OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS. NO EXCAVATION OR DEMOLITION SHALL BE STARTED	 CURB UNLESS OTHERWISE NOTED. 5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATES AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO ANY CONSTRUCTION.
4. ALL SUB-SURFACE UTILITIES IDENTIFIED ON THE CONSTRUCTION DOCUMENTS ARE SHOWN IN THEIR APPROXIMATE	 ALL WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE FROM DRAWINGS.
LOCATION BASED ON SURVEY INFORMATION GATHERED FROM FIELD INSPECTION AND/OR ANY OTHER APPLICABLE RECORD DRAWINGS WHICH MAY BE AVAILABLE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.	7. ALL UTILITIES WITH SURFACE ACCESS SHALL BE LOCATED WITHIN THE PAVING PATTERN AND SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. REFER TO LAYOUT DRAWINGS.
 EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE 	 ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED. ALIGN ALL JOINTS, CORNERS, AND EDGES AS SHOWN
AT THE CONTRACTOR'S EXPENSE. 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATING PERMITS, INSPECTIONS, DEPENDENTION AND ACTUED RESPONSIBLE FOR OBTAINING AND COORDINATING PERMITS, INSPECTIONS,	10. CONTRACTOR SHALL REFER TO AND COORDINATE WITH ARCHITECTURAL, STRUCTURAL, AND MEP DRAWINGS AT ALL TIMES PRIOR TO AND DURING CONSTRUCTION.
CERTIFICATIONS AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT. 7. THE CONTRACTOR SHALL MAINTAIN "AS-BUILT" DRAWINGS TO RECORD THE ACTUAL LOCATION OF ALL PIPING PRIOR TO CONCEALMENT, VALVE AND MANHOLE CHANGES, AND HARDSCAPE OR LANDSCAPE CHANGES.	 ALL CURB TAPERS ARE SIX (6') FEET LONG UNLESS OTHERWISE SHOWN ON PLAN. WHERE NEW SIDEWALK ADJOINS EXISTING WALK, PROVIDE EXPANSION JOINT BY DRILLING INTO THE FACE
DRAWINGS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE AT REGULAR INTERVALS, OR AS REQUESTED THROUGHOUT THE PROJECT FOR RECORD KEEPING.	OF THE EXISTING WALK FOR PLACEMENT OF DOWELS. TIE NEW SIDEWALKS INTO NEAREST EXISTING PAVEMENT JOINT; MATCH WIDTH OF EXISTING WALKWAY.
8. IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THERE OF SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.	 WHERE SIDEWALK OR WALKWAYS ARE ADJACENT TO PARKING SPACES THE WALKWAY SHALL BE A MINIMUM 6.5' WIDE AS MEASURED FROM THE FACE OF CURB. MAXIMUM RUNNING SLOPE FOR WALKING SURFACES CANNOT BE GREATER THAN 1:20 AND CROSS SLOPES CANNOT BE GREATER THAN 1:48. HANDICAP SPACES SURFACE SLOPES SHALL NOT EXCEED 1:48 IN ALL
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY EXISTING UTILITY LINES REQUIRED TO COMPLETE ANY PORTION OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE COORDINATION AND COSTS OF THE RELOCATION AND ASSOCIATED WORK. 	15. SIGHT TRIANGLES - NOTHING OVER 30" HIGH SHALL BE ALLOWED WITHIN THE SIGHT DISTANCE TRIANGLES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH CAUSED BY THE CONTRACTOR. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS.	16. THE SITE SHALL BE FULLY STABILIZED (90% COVERAGE) PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY OR PROJECT APPROVAL
 THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS. 	17. HANDICAP RAMPS SHALL BE INSTALLED PER THE PLANS AND SPECIFICATIONS AND THE NC BUILDING CODE. A MAXIMUM SLOPE OF 1/12 FOR 6-FEET AND A MAXIMUM CROSS SLOPE OF 1:48 SHALL BE PROVIDED. IF EXISTING CONDITIONS PRECLUDE THIS REQUIREMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR
12. ROADWAYS (TEMPORARY OR PERMANENT) MUST BE CAPABLE OF SUPPORTING FIRE FIGHTING APPARATUS (85,000 LBS) DURING ALL PHASES OF CONSTRUCTION ONCE VERTICAL CONSTRUCTION HAS BEGUN.	OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION 18. THE TESTING AGENCY SHALL BE RESPONSIBLE FOR PROVIDING THE ASPHALT AND CONTRACTOR CERTIFICATION MEMO TO NCDOT FOR ALL ROADWAY IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY.
EXISTING CONDITION NOTES:	
1. THIS SURVEY MAP IS INTENDED TO REPRESENT THE EXISTING CONDITIONS/TOPOGRAPHY ON A PORTION OF THE PROPERTY AND ALL ENCUMBRANCES UPON THE PROPERTY MAY NOT BE SHOWN.	
 HORIZONTAL DATUM IS NAD 83-2011 AND VERTICAL DATUM IS NAVD88. THIS DRAWING DOES NOT CONFORM TO N.C. GS47-30 AND THEREFORE IS NOT FOR RECORDATION. 	
4. UTILITIES SHOWN HEREON ARE BASED ON ABOVE GROUND VISIBLE EVIDENCE AND UTILITY DESIGNATION / MARKING SERVICES PERFORMED BY STEWART INC, AND THE AVAILABLE RECORD INFORMATION. CONTRACTOR	
SHALL FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO COMMENCING CONSTRUCTION.5. SURVEY INFORMATION BASED ON FIELD SURVEY BY STEWART COMPLETED ON AUGUST 1, 2017.	
6. TREES SHOWN HEREON MAY NOT REPRESENT ALL VEGETATION ON THE SUBJECT PROPERTY.	
 THE SUBJECT PROPERTY LIES IN ZONES X (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE AND FUTURE CONDITIONS 1% ANNUAL CHANCE FLOODPLAIN). BASED ON THE FLOOD INSURANCE RATE MAP COMMUNITY MAP NUMBER 3710987000J DATED FEBRUARY 2, 2007. 	
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UTILITY NOTES:

- 1. UNLESS OTHERWISE NOTED. ALL MANHOLES SHALL BE PRE-CAST CONCRETE STRUCTURES.
- THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF UNDERGROUND UTILITIES (WATER, SEWER STORM ELECTRICAL GAS OR OTHER) FOR THIS PROJECT WITH THE BUILDING PLANS. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE INSTALLATION OF ALL UTILITY SERVICES TO WITHIN FIVE (5) FEET OF THE BUILDING CONNECTION POINT.
- 3. THE CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS ON SITE AND UTILITY PROVIDERS DURING CONSTRUCTION TO ENSURE SMOOTH TRANSITION BETWEEN DISCIPLINES.
- 4. THE CONTRACTOR SHALL COORDINATE ALL PEDESTRIAN AND VEHICULAR INTERRUPTIONS WITH OWNER'S REPRESENTATIVE AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INSIDE THE PUBLIC RIGHT OF WAY PRIOR TO RECEIPT AND COMPLIANCE WITH ALL APPLICABLE NCDOT PERMITS. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FLAGGERS AND TRAFFIC CONTROL DURING ALL WORK INSIDE THE PUBLIC RIGHTS OF WAY.
- THE CONTRACTOR SHALL NOT RE-USE ANY FIRE HYDRANT REMOVED AS PART OF THIS PROJECT. ANY FIRE HYDRANT SHOWN TO BE REMOVED OR RELOCATED SHALL BE REPLACED WITH A NEW FIRE HYDRANT MEETING THE LOCAL JURISDICTIONAL REQUIREMENTS AND STANDARDS.
- ALL EXISTING SUB-SURFACE UTILITIES IDENTIFIED ON THE CONSTRUCTION DOCUMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED ON SURVEY INFORMATION GATHERED FROM FIELD INSPECTION AND/OR ANY OTHER APPLICABLE RECORD DRAWINGS WHICH MAY BE AVAILABLE. DEPTHS OF EXISTING UTILITIES SHOWN IN PROFILE VIEWS ARE BASED ON STANDARD ASSUMPTIONS. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION, DEPTH, SIZE AND MATERIAL OF ANY AND ALL SUB-SURFACE CONDITIONS REFERENCED IN THESE PLANS PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.
- 8. ELEVATIONS OF UTILITIES ARE GIVEN TO THE EXTENT OF INFORMATION AVAILABLE, WHERE ELEVATIONS ARE NOT GIVEN AT POINTS OF EXISTING UTILITY CROSSINGS, SUCH ELEVATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND REPORTED TO THE ENGINEER, WHEN UNKNOWN LINES ARE EXPOSED, THEIR LOCATIONS AND ELEVATIONS SHALL ALSO BE REPORTED TO THE ENGINEER.
- UNDERGROUND UTILITIES SHOWN ON THIS PLAN SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION OF PARKING AREA, DRIVES, CURB AND GUTTER OR CONCRETE WALKS / PADS. IF UTILITIES SHOWN ON THIS PLAN CANNOT BE INSTALLED PRIOR TO INSTALLATION OF IMPERVIOUS (ASPHALT / CONCRETE) CONDUIT SHALL BE INSTALLED FOR THE "FUTURE" UTILITY INSTALLATION.
- 10. AS-BUILT DOCUMENTATION REQUIREMENTS: PRIOR TO APPROVAL FROM LOCAL JURISDICTION OR ENGINEER THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS (IN BOTH PAPER AND ELECTRONIC FORMAT (CAD / PDF) PREPARED AND SEALED BY A PROFESSIONAL LAND SURVEYOR SHOWING ALL UTILITY INSTALLATION. HORIZONTAL AND VERTICAL INFORMATION SHALL BE PROVIDED FOR WATER, SEWER, STORM INCLUDING ALL STRUCTURES, VALVES, HYDRANTS, AND OTHER APPURTENANCES.

PROPOSED UTILITY SEPARATION:

- WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM EXISTING OR PROPOSED SEWERS. UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT HORIZONTAL SEPARATION IN WHICH
 - a. THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER; OR
 - b. THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE OF A BENCH OF UNDISTURBED EARTH, AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP TO THE SEWER.
- CROSSING A WATER MAIN OVER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION. IN WHICH CASE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
- CROSSING A WATER MAIN UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER. BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.
- 4. SEPARATION OF SANITARY SEWERS AND STORM SEWERS:
 - a. A 18" VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER LINES OR BOTH THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERROUS MATERIALS.

SEWER NOTES:

- 1. SANITARY SEWER CLEANOUTS LOCATED IN PAVEMENT AREAS SHALL BE HEAVY DUTY TRAFFIC BEARING CASTINGS.
- 2. UNLESS OTHERWISE NOTED, ALL SANITARY SEWER MANHOLES ARE 4' DIA.
- 3. MANHOLES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT GRADE. MANHOLES LOCATED IN OTHER AREAS (I.E. GRASS OR WOODED AREAS) SHALL HAVE THEIR RIMS RAISED SIX INCHES ABOVE THE SURROUNDING GRADE. MANHOLES SUBJECT TO POSSIBLE WATER INFILTRATION SHALL HAVE WATERTIGHT, BOLTED LIDS.
- 4. MINIMUM REQUIRED SLOPES FOR SEWER SERVICES: 4" SEWER SERVICE - 2.00% SLOPE 6" SEWER SERVICE - 1.00% SLOPE 8" SEWER SERVICE - 0.50% SLOPE
- UNLESS OTHERWISE NOTED, LOCATE SANITARY SERVICE CLEANOUTS AT ALL HORIZONTAL OR VERTICAL CHANGES IN DIRECTION. MAXIMUM SPACING BETWEEN CLEANOUTS SHALL BE 75 FEET.
- SEWER LINES LESS THAN 3 FEET OF COVER SHALL BE CLASS 50 DUCTILE IRON PIPE. SEWER LINES WITH GREATER THAN 3 FEET OF COVER SHALL BE AS NOTED BELOW: 4" SEWER SERVICE - SCH 80
 - 6" SEWER SERVICE SCH 80 8" SEWER SERVICE - SDR-35
- 7. SEWER LINES UNDER CONSTRUCTION SHALL BE PROTECTED FROM DIRT, DEBRIS OR OTHER CONTAMINANTS ENTERING THE NEW SYSTEM. A MECHANICAL PLUG SHALL BE UTILIZED BOTH IMMEDIATELY UPSTREAM OF THE NEW CONSTRUCTION AND AT THE FIRST MANHOLE DOWNSTREAM IN THE EXISTING SYSTEM. EXISTING STRUCTURES, PIPING AND APPURTENANCES SHALL BE PROTECTED FROM ANY INFLOW OF WATER, DIRT OR DEBRIS DUE TO NEW CONSTRUCTION CONNECTING TO OR IN THE VICINITY OF THE EXISTING SYSTEM. CONTRACTOR TO REMOVE DEBRIS AND PLUG PRIOR TO OCCUPANCY.
- 8. ALL MANHOLES COVERS SHALL BE PAINTED TO LOCAL JURISDICTIONAL REQUIREMENTS.

WATER NOTES:

- AS INDICATED, ALL WATERLINES SHALL BE DUCTILE IRON PIPE MEETING THE REQUIREMENTS OF ANSI-AWWA C151 PRESSURE CLASS 350 OR SOFT COPPER TYPE K PIPE PER ASTM B88. IF PVC WATERLINE IS INDICATED ON THE PLANS IT SHALL MEET THE REQUIREMENTS OF AWWA C-900; CLASS 200.
- 2. ALL WATERLINES SHALL HAVE A MINIMUM OF 3.5 FEET OF COVER.
- 3. TESTING NOTES:

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PRESSUR LEAKAGE SHALL NOT EXCEED THE MAXIMUM ALLOWABLE LEAKAGE SPECIFIED IN AWWA C 600.

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- O ASSURE POSITIVE STORMWATER FLOW TO KEEP WATER FROM
- IE ELEVATION AT THE TOP OF THE CAP, UNLESS OTHERWISE NOTED. E THE ELEVATION OF THE FINISHED GRADE.
- 4. THE CHLORINE IN HEAVILY CHLORINATED WATER FLUSHED FROM MAINS NEEDS TO BE NEUTRALIZED BEFORE DISCHARGE. CONTRACTORS SHALL NEUTRALIZE HEAVILY CHLORINATED WATER FLUSHED FROM MAINS PRIOR TO DISCHARGE OR TRANSPORT ALL HEAVILY CHLORINATED WATER OFFSITE FOR PROPER

MINIMUM TEST PRESSURE SHALL BE 150 PSI FOR DOMESTIC AND 200 PSI FOR FIRE PROTECTION.

TWO SAMPLES FOR BACTERIOLOGICAL SAMPLING SHALL BE COLLECTED AT LEAST 24 HOURS

APART. IF CONTAMINATION IS INDICATED, THEN THE DISINFECTION PROCEDURE AND TESTING

5. PAINT VALVE COVERS, FIRE HYDRANTS AND OTHER WATER APPARATUS TO MEET THE LOCAL JURISDICTIONAL REQUIREMENTS.

SHALL BE REPEATED UNTIL SATISFACTORY RESULTS ARE OBTAINED.

SIGNAGE, STRIPING AND MARKING NOTES:

- OWNER

- INCHES.

MATERIALS AND FURNISHINGS NOTES:

1. ABBREVIATIONS FOR SPECIFIC HARDSCAPE MATERIALS AND FURNISHINGS ARE LISTED IN THE LEGEND AND ARE USED THROUGHOUT THE DRAWING SET'S HARDSCAPE & FURNISHINGS PLANS, PAVING PATTERN PLANS AND SITE DETAILS.

2. REFER TO RELATED SPECIFICATION SECTION FOR SPECIFIC SUBMITTALS OF PRODUCT DATA, SAMPLES, SHOP DRAWINGS, QUALITY ASSURANCE REQUIREMENTS, EXECUTION REQUIREMENTS, AND FOR FURTHER PRODUCT INFORMATION NOT INCLUDED IN THIS SCHEDULE

3. CONTRACTOR TO SUBMIT COLOR SAMPLES AND PROVIDE MOCK-UPS FOR ALL CAST IN PLACE CONCRETE FOR APPROVAL BY LANDSCAPE ARCHITECT.

PAVING PATTERN NOTES:

1. END ALL UNIT PAVING PATTERNS WITH A FULL OR HALF SIZE PAVER UNLESS OTHERWISE NOTED. USE OVERSIZE PAVERS WHERE PATTERN ENDS ON A UNIT SMALLER THAN HALF SIZE.

2. LAYOUT OF UNIT PAVING PATTERNS AND CONCRETE JOINTS AS INDICATED ON THIS PLAN. REFERENCE LAYOUT PLANS FOR FURTHER PAVING LAYOUT INFORMATION.

3. PAVERS ABUTTING TRUNCATED DOMES SHALL BE A CONTRASTING COLOR.

4. ALIGN ALL TRUNCATED DOME PAVER JOINTS WITH ABUTTING PAVER JOINTS.

5. PROVIDE CONTINUOUS EXPANSION JOINTS BETWEEN BACK OF CURB AND ADJOINING PAVEMENT.

6. PROVIDE CONTINUOUS EXPANSION JOINT BETWEEN ALL VERTICAL SURFACES AND ADJOINING PAVEMENT.

7. ALL DIMENSIONS MEASURED TO CENTERLINE OF JOINTS.

8. ALL WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE FROM DRAWINGS.

9. ALL ANGLES 90 DEGREES UNLESS OTHERWISE NOTED.

10. ALIGN ALL JOINTS, CORNERS AND EDGES AS SHOWN.

11. FINAL LAYOUTS TO BE APPROVED BY LANDSCAPE ARCHITECT.

1. ALL INTERNAL SIGNAGE SHALL BE COORDINATED WITH OWNER FOR ACTUAL LOCATION AT TIME OF INSTALLATION. SIGNAGE LEADING ONTO PUBLIC THOROUGHFARE SHALL BE INSTALLED AT RIGHT OF WAY PFR DOT STANDARDS

2. ALL PAVEMENT STRIPING (EXCEPT INDIVIDUAL PARKING BAY STRIPING) SHALL BE THERMOPLASTIC REFLECTIVE PAINT. MATERIALS AND DIMENSIONS SHALL CONFORM TO NCDOT STANDARDS AND SPECIFICATIONS. PARKING BAY STRIPING SHALL BE WHITE REFLECTIVE PAINT.

3. CROSSWALKS SHALL BE CONSTRUCTED OF THERMOPLASTIC MATERIALS AND CONSTRUCTED IN ACCORDANCE WITH STATE DOT SPECIFICATIONS. CONTRACTOR TO INSTALL CROSSWALKS IN SUCH A MANNER THAT CROSSWALKS ARE ALIGNED BETWEEN HANDICAP/WALKWAY ACCESS POINTS OR PERPENDICULAR TO THE ROADWAY / DRIVE LANE.

4. ADA SYMBOLS SHOWN THESE DRAWINGS ARE FOR LOCATION PURPOSES ONLY AND NOT INTENDED TO BE PAINTED CONTRACTOR RESPONSIBLE FOR INSTALLING ALL REQUIRED ADA SIGNAGE

LANDSCAPE NOTES:

1. VERIFY ALL QUANTITIES AND REPORT ANY DISCREPANCIES OR INACCURACIES IN THE PLANS TO THE OWNER'S REPRESENTATIVE PRIOR TO PLANTING.

2. LANDSCAPE WORK SHALL INCLUDE THE FURNISHING, INSTALLATION, AND WARRANTY OF ALL PLANTING MATERIALS WITHIN THE PROJECT AREA.

THE LANDSCAPE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL EXISTING AND NEW UNDERGROUND UTILITIES PRIOR TO EXCAVATION FOR PLANTING. DAMAGES TO UTILITIES CAUSED BY THE LANDSCAPE OPERATION SHALL BE CORRECTED BY THE LANDSCAPE CONTRACTOR AT NO COST TO THE

4. LANDSCAPING SHALL REMAIN CLEAR FROM ANY FIRE HYDRANTS ON THE SITE.

5. ALL TREES TO BE A MINIMUM OF 2" IN CALIPER AND MUST MEET THE AMERICAN STANDARD FOR NURSERY

6. TREE PROTECTION NOTE: TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE OR ISSUANCE OF A GRADING PERMIT AND SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS ÁRBOLES."

7. PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA.

ROOT ZONE PROTECTION AREA: VARIES BASED ON LOCAL JURISDICTION HAVING AUTHORITY. CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICTIONAL REQUIREMENTS. NO DISTURBANCE ALLOWED WITHIN THIS AREA. AREA MUST BE PROTECTED WITH BOTH TREE PROTECTION FENCING AND WARNING

9. SEED BED PREPARATION: ALL AREAS TO BE SEEDED ARE TO BE RECEIVE A MINIMUM OF 2" OF APPROVED TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN .5" ARE TO BE REMOVED. ALL LARGE CONCENTRATIONS OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO BE REMOVED PRIOR TO SEEDING OR PLANTING.

10. ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM OF 6" OF APPROVED TOPSOIL.

11. SOIL SHOULD BE TESTED AND AMENDED WITH LIME AND FERTILIZER FOR HARDWOOD TREES ACCORDING TO NCDA PROCEDURES. SCARIFY PLANT PIT WALLS. CONSULT LANDSCAPE ARCHITECT FOR ALTERNATE COMPLIANCE.

12. SHREDDED HARDWOOD MULCH 3" DEEP EXCEPT AT CROWN OF PLANT UNLESS OTHERWISE NOTED. FLARE AT CROWN SHOULD BE REVEALED. BACKFILL CONSISTS OF THOROUGHLY BROKEN UP NATIVE SOIL. TOTAL VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP TO ONE THIRD PINE BARK MULCH. PIECES SHOULD BE NO LARGER THAN WHAT PASSES THROUGH A ONE INCH SCREEN. IF ADDITIONAL SOIL IS REQUIRED FOR BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE CONDITIONS, USE SOIL SIMILAR TO EXISTING NATIVE SOIL. ADDITIONAL SOIL TO BE APPROVED BY LANDSCAPE ARCHITECT. MAXIMUM SAUCER HEIGHT IS 6

13. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE EXISTING GRADE.

14. FOR B&B PLANTS, NATURAL FIBER BURLAP SHOULD BE TURNED DOWN BY 1/3 TOTAL HEIGHT OF ROOT BALL. PLASTIC FIBER BURLAP AND WIRE BASKETS SHOULD BE REMOVED TO 2/3'S OF TOTAL HEIGHT OF ROOT

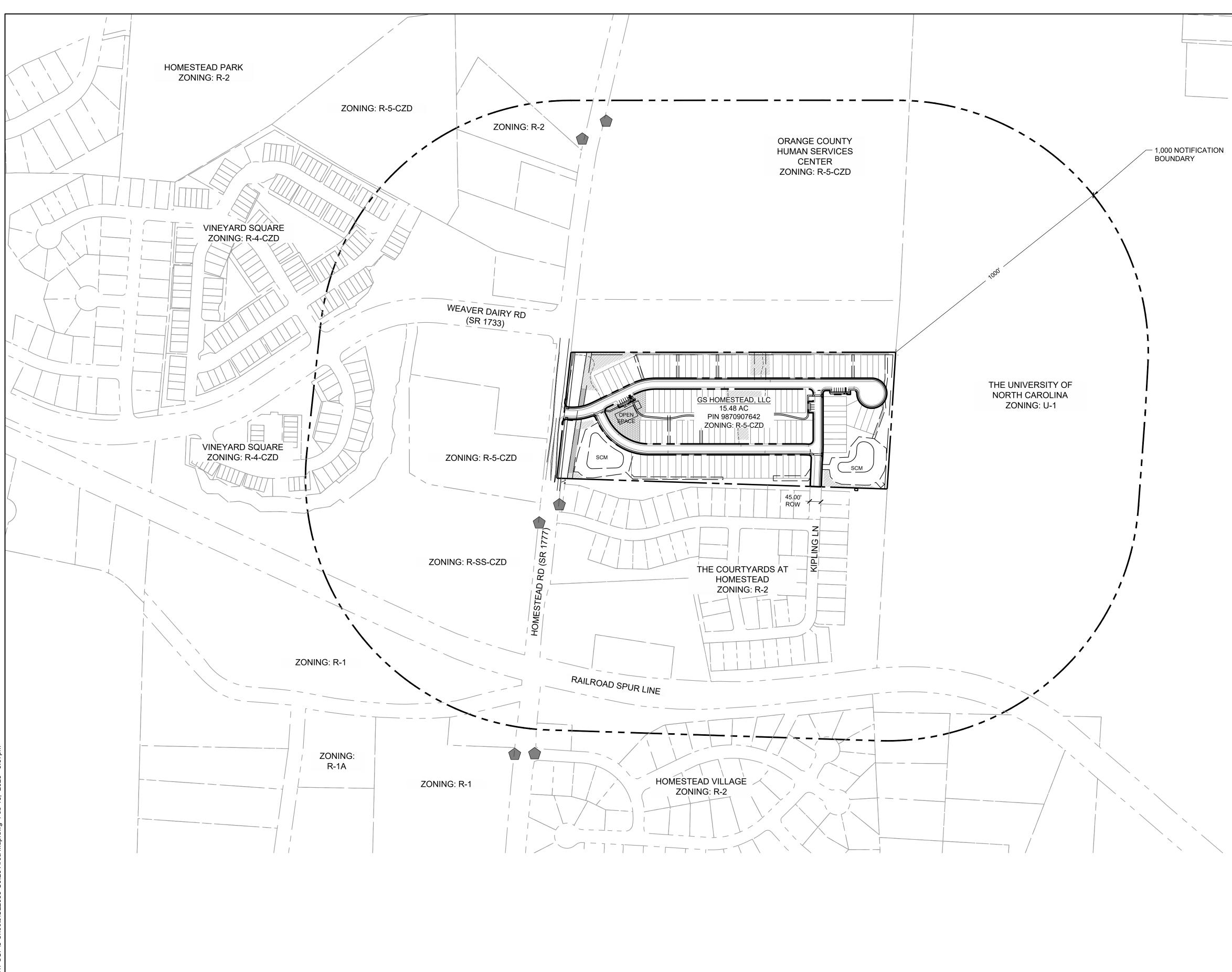
15. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE TREE UPRIGHT AND PLUMB THROUGHOUT THE WARRANTY PERIOD. IF STABILIZATION IS NECESSARY SEE STAKING IN TREE DETAIL, ORANGE FLAGGING TAPE SHOULD BE ATTACHED TO SUPPORT WIRE. STAKING SHOULD BE REMOVED BY CONTRACTOR AT END OF ONE YEAR WARRANTY PERIOD OR AS DIRECTED BY GROUNDS MANAGEMENT.

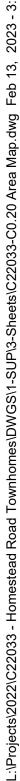
16. USE STANDARD "GATOR" BAGS FOR WATERING TREES IN AREAS NOT UNDER IRRIGATION. INCORPORATE TERRA-SORB (OR EQUAL) AS PER MANUFACTURERS RECOMMENDATIONS, FOR AREAS NOT UNDER IRRIGATION.

17. USE "BIO-BARRIER" OR EQUIVALENT ACCORDING TO MANUFACTURER'S RECOMMENDATION FOR TREES THAT WILL BE PLANTED WITHIN 10' OF PAVEMENT

18. LANDSCAPING/C.O. STANDARDS NOTE: ALL LANDSCAPING MUST BE IN PLACE PRIOR TO REQUEST FOR A CERTIFICATE OF COMPLIANCE.

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Project:
HOMESTEAD ROAD TOWNHOMES
Issued for: CONDITIONAL ZONING PERMIT
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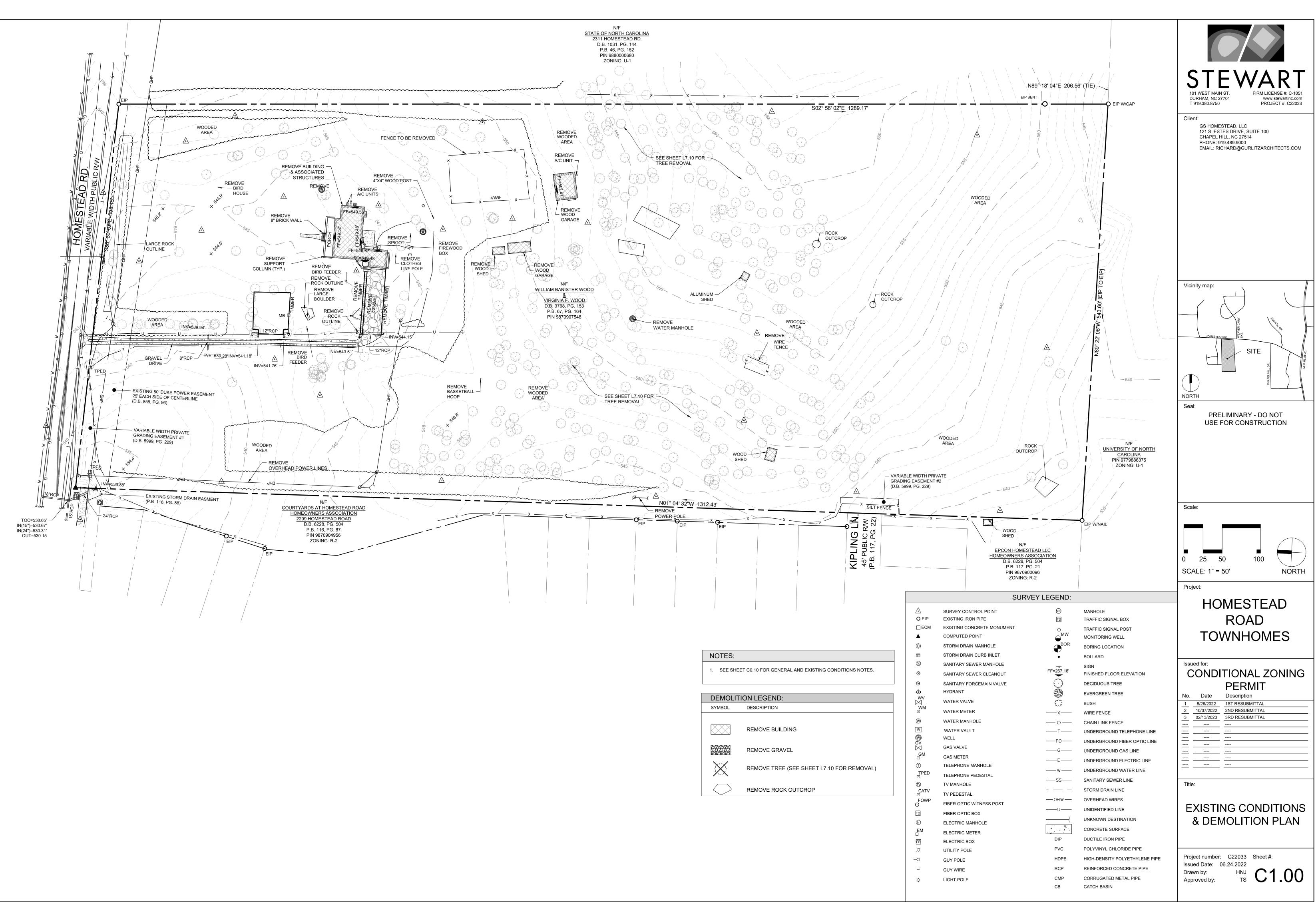




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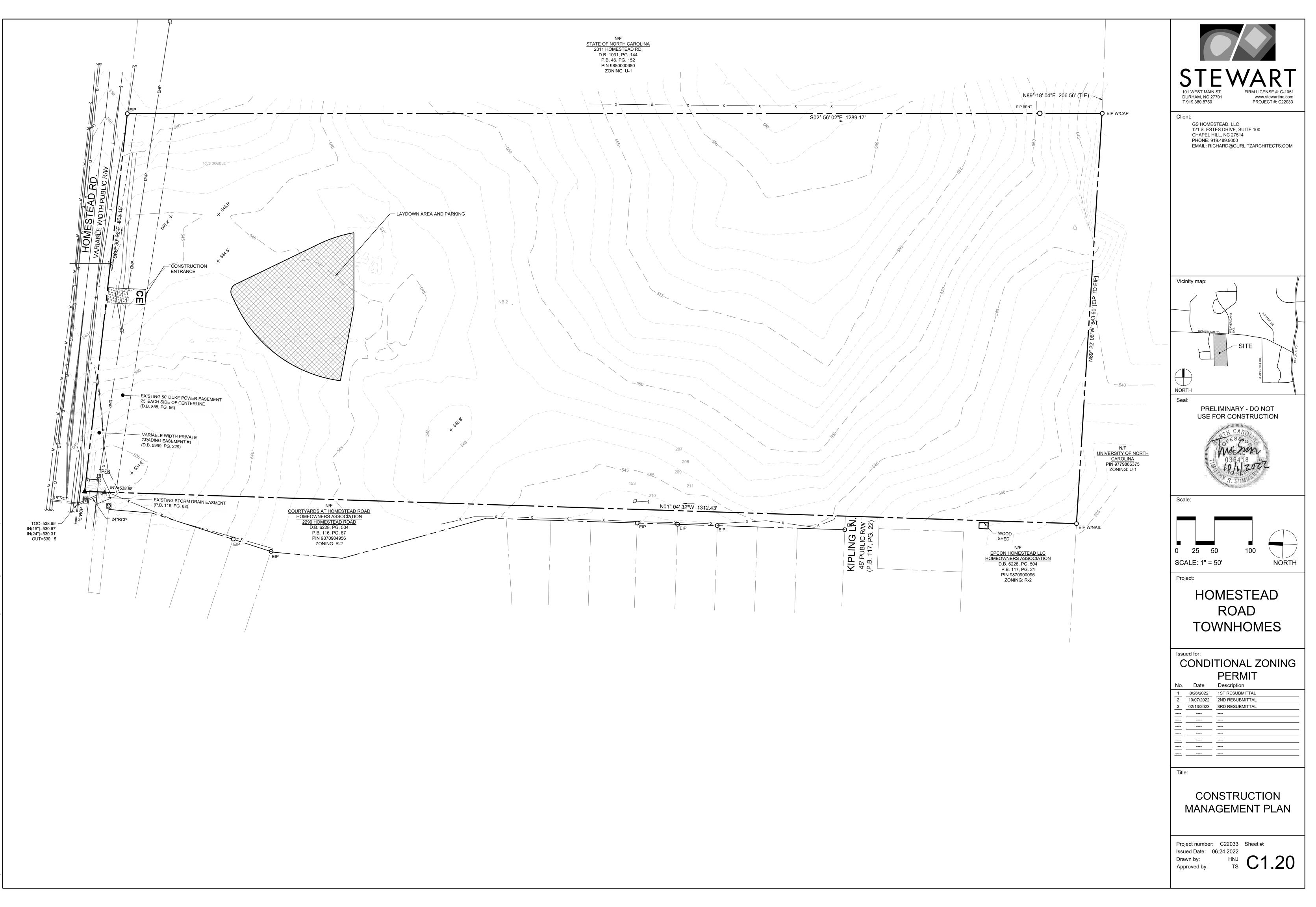
LEGEND:	
SYMBOL	DESCRIPTION
	1000' BOUNDARY LINE
	OPEN SPACE
	TREE REPLACEMENT AREA
	TREE SAVE AREA
	BUS STOP

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Project number: C22033 Sheet #: Issued Date: 06.24.2022 Drawn by: HNJ Approved by: TS CO.20

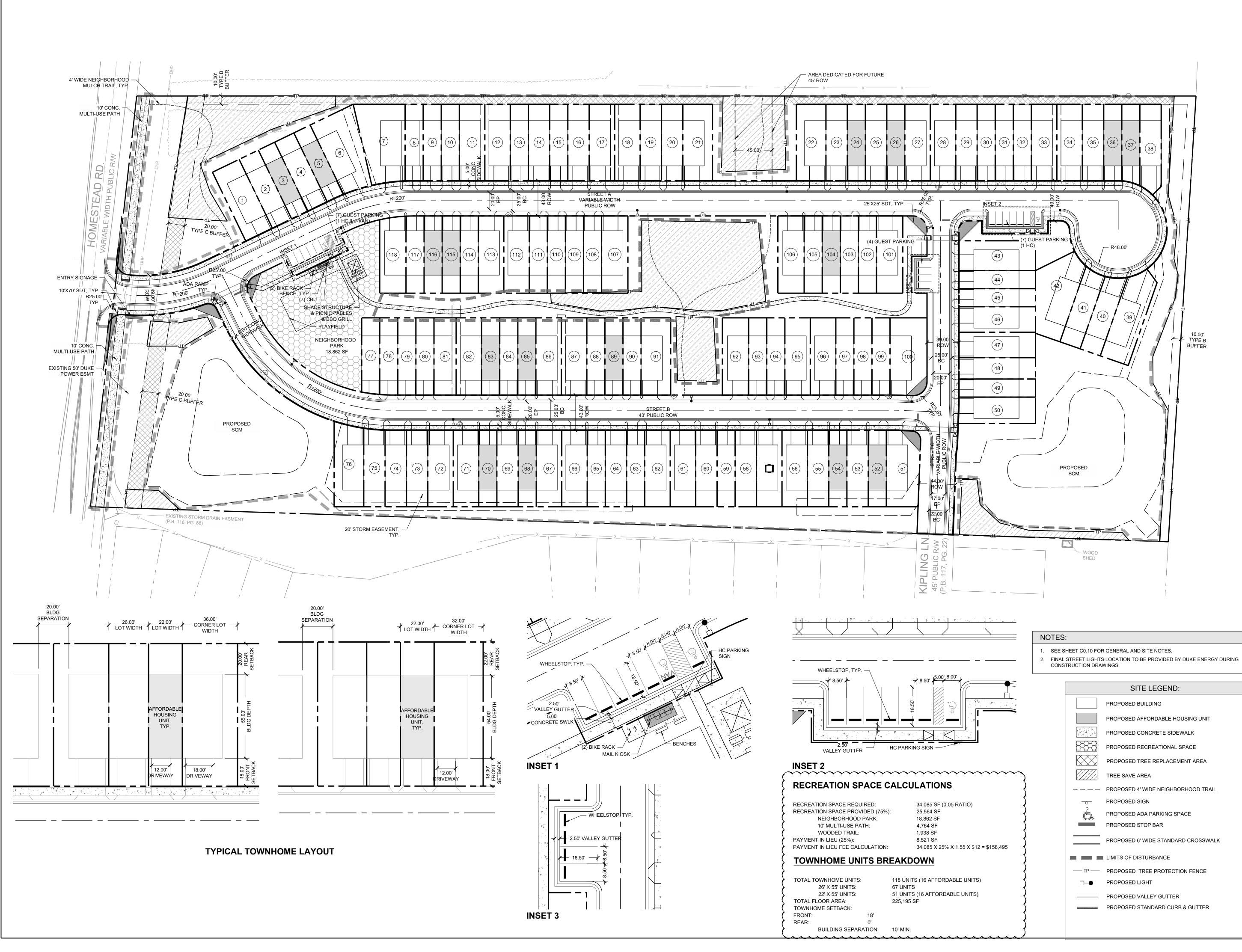


	ION LEGEND:
SYMBOL	DESCRIPTION
	REMOVE BUILDING
	REMOVE GRAVEL
\times	REMOVE TREE (SEE SHEET L7.10 FOR REMOVAL)
\bigcirc	REMOVE ROCK OUTCROP



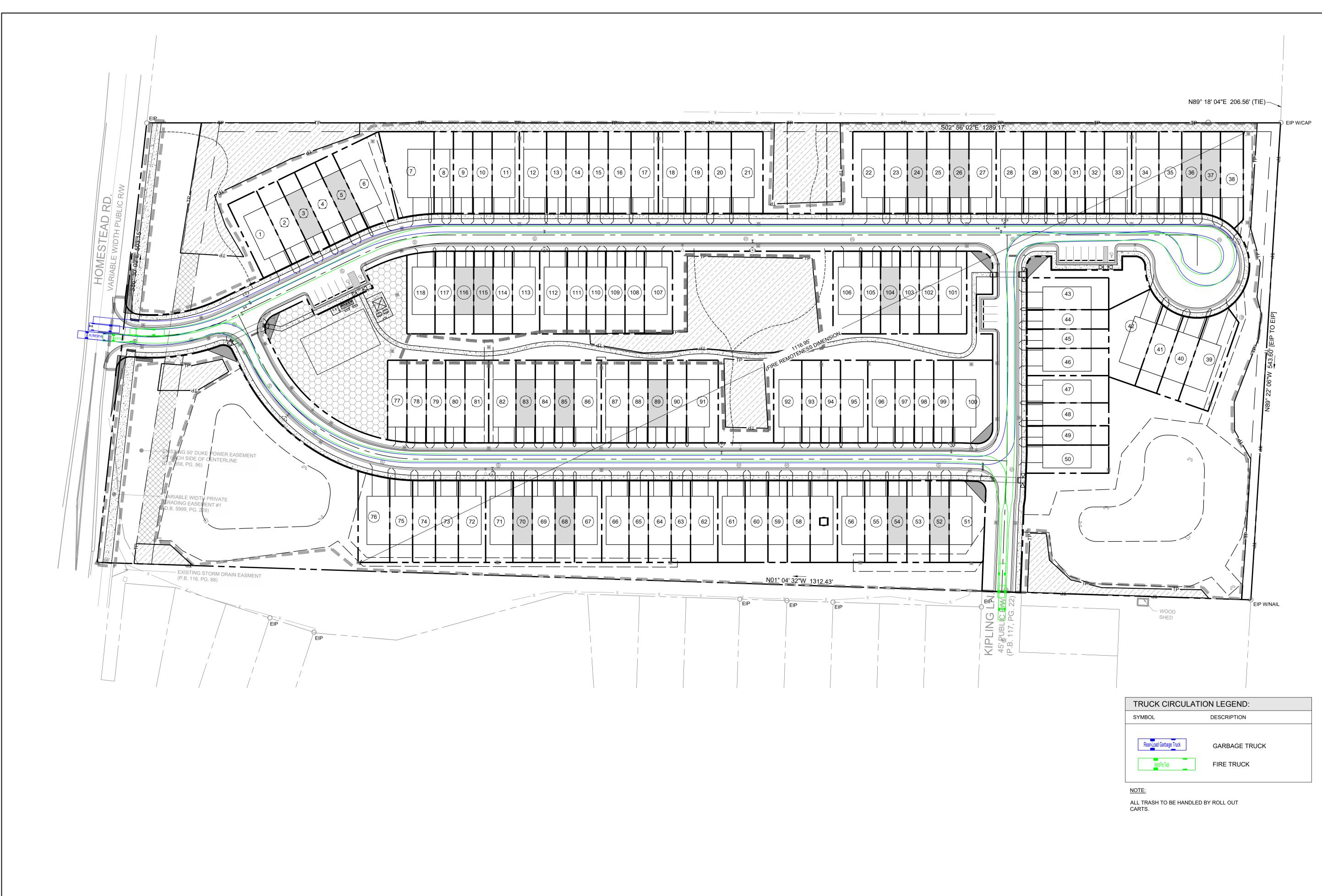


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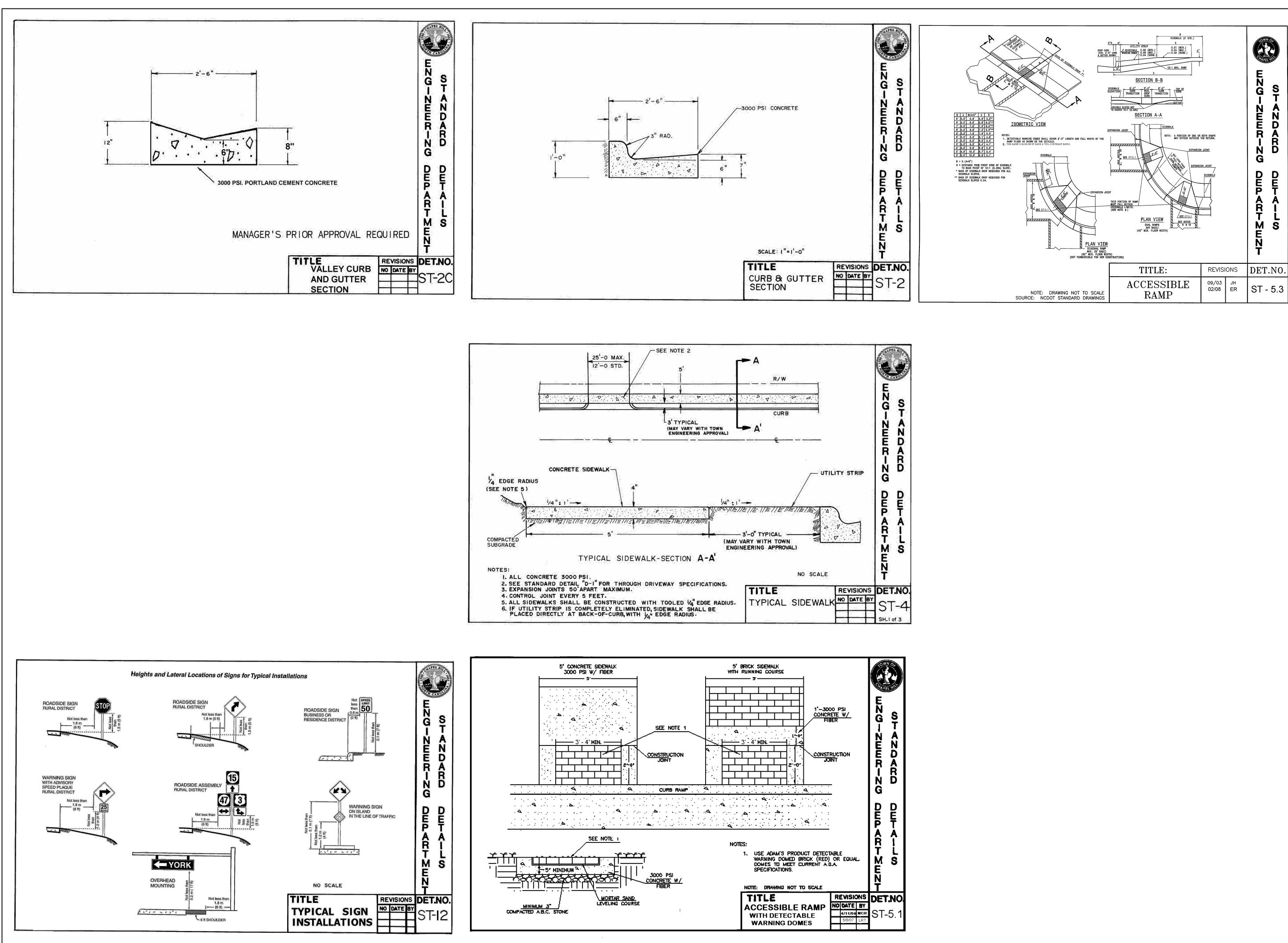


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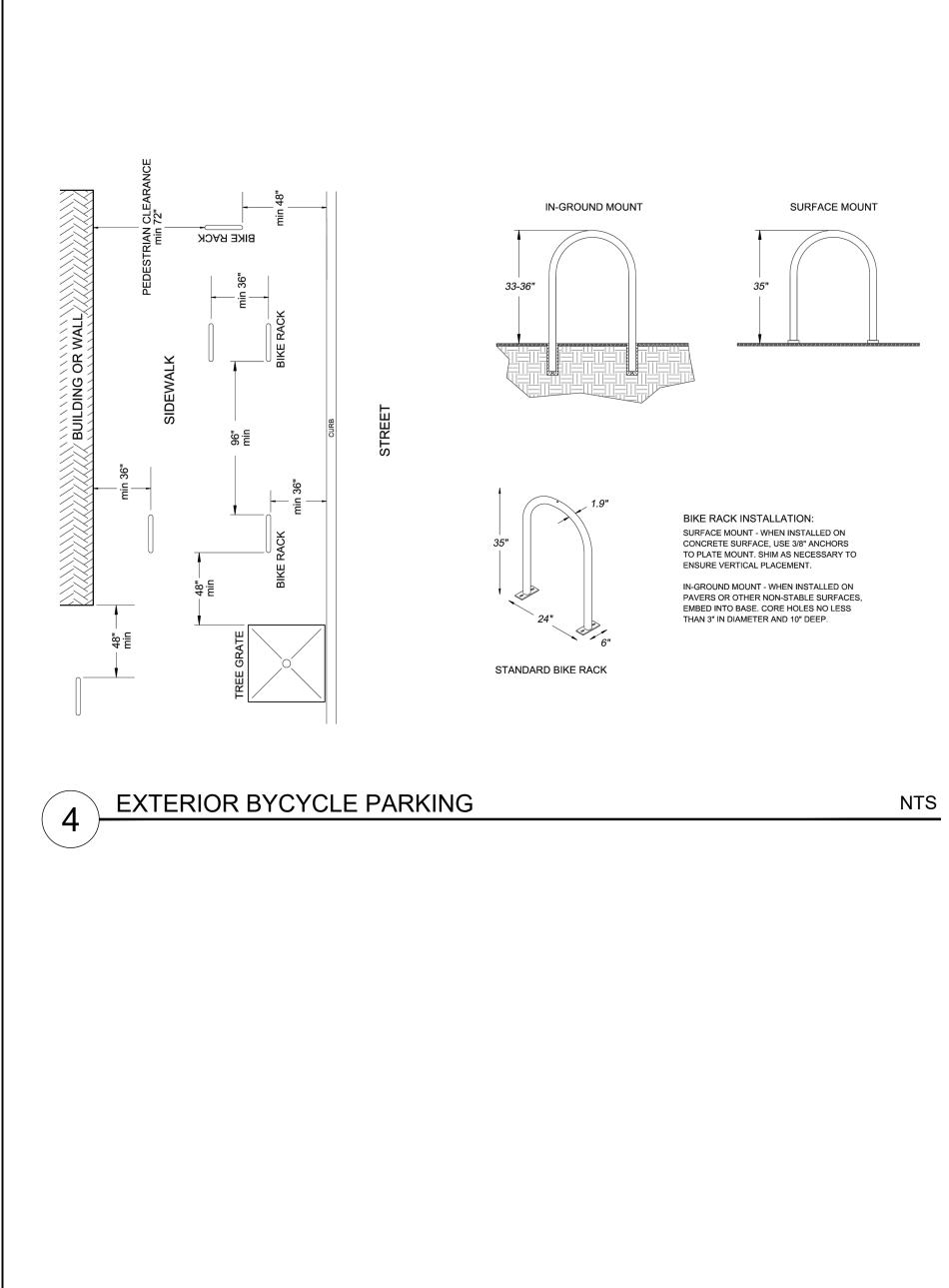
STEWART 101 WEST MAIN ST. DURHAM, NC 27701 T 919.380.8750 FIRM LICENSE #: C-1051 www.stewartinc.com PROJECT #: C22033
Client: GS HOMESTEAD, LLC 121 S. ESTES DRIVE, SUITE 100 CHAPEL HILL, NC 27514 PHONE: 919.489.9000 EMAIL: RICHARD@GURLITZARCHITECTS.COM
Vicinity map:
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TOWNHOMES
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Title: SITE PLAN
Project number: C22033 Sheet #:
Issued Date: 06.24.2022 Drawn by: SM Approved by: TS C3.00



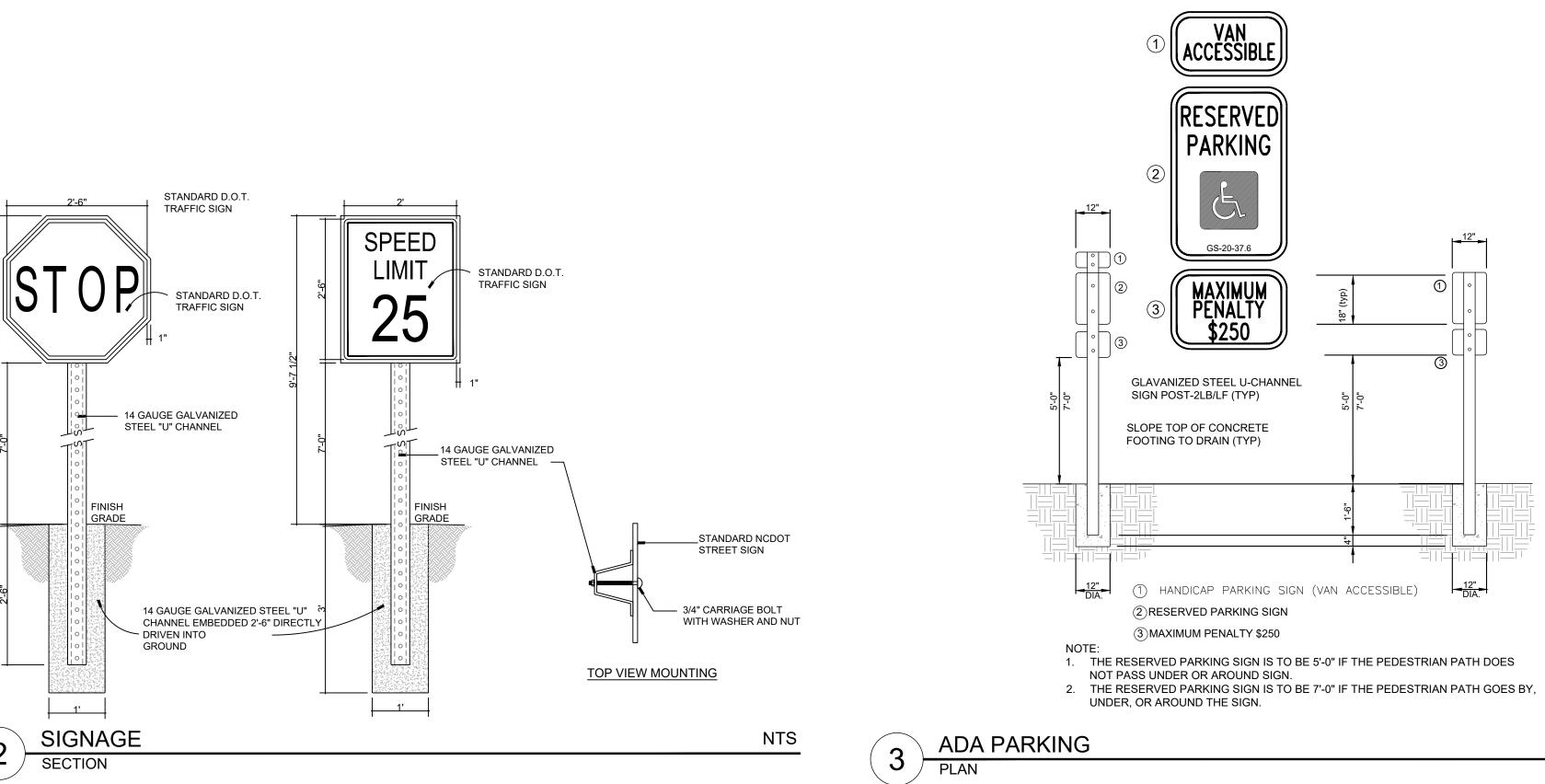
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Client: GS HOMESTEAD, LLC 121 S. ESTES DRIVE, SUITE 100 CHAPEL HILL, NC 27514 PHONE: 919.489.9000 EMAIL: RICHARD@GURLITZARCHITECTS.COM
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TRASH MANAGEMENT & FIRE APPARATUS PLAN Project number: C22033 Sheet #: Issued Date: 06.24.2022 Drawn by: HNJ Approved by: TS



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Title: SITE DETAILS
Project number: C22033 Sheet #: Issued Date: 06.24.2022 Drawn by: SM Approved by: TS C3.90

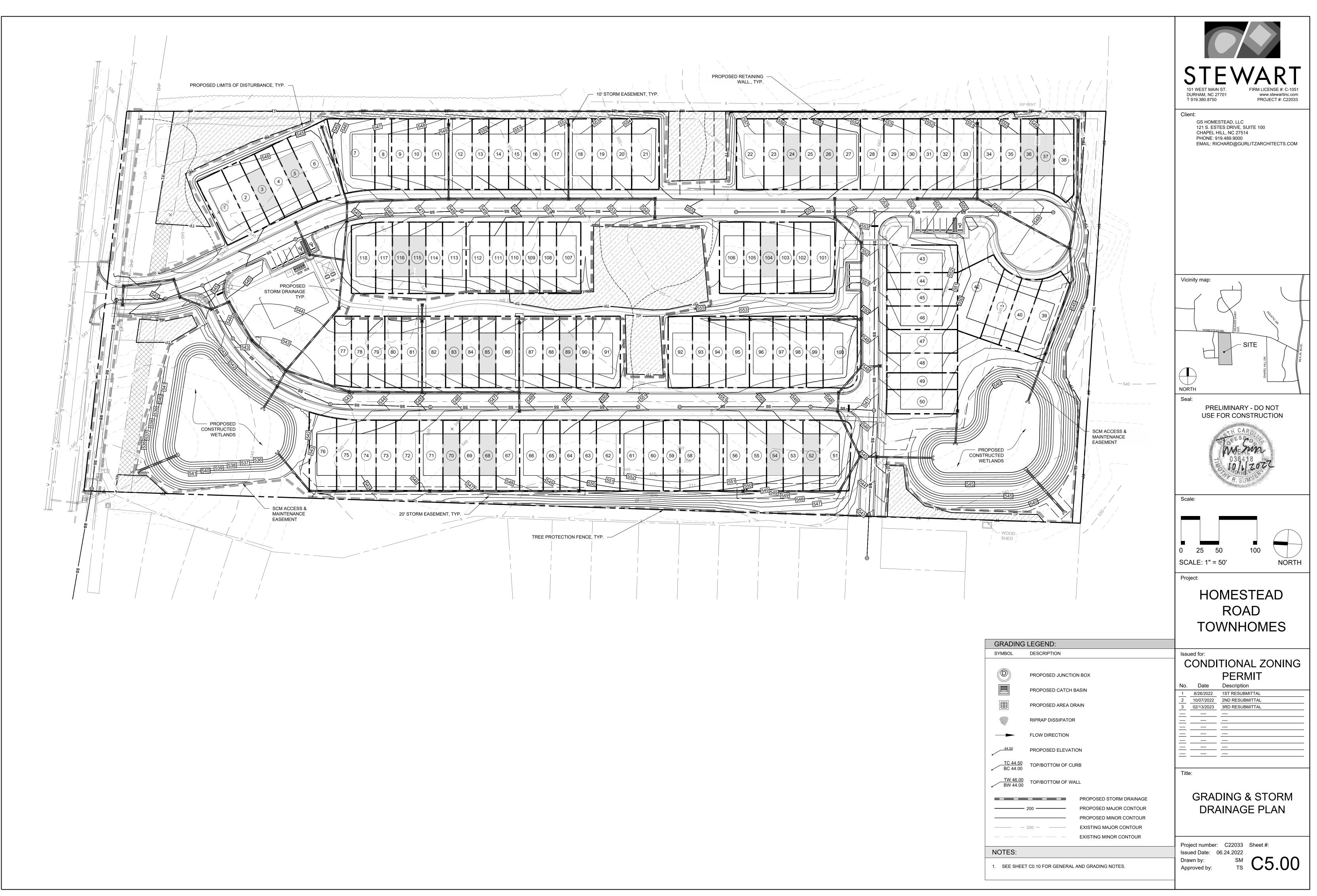


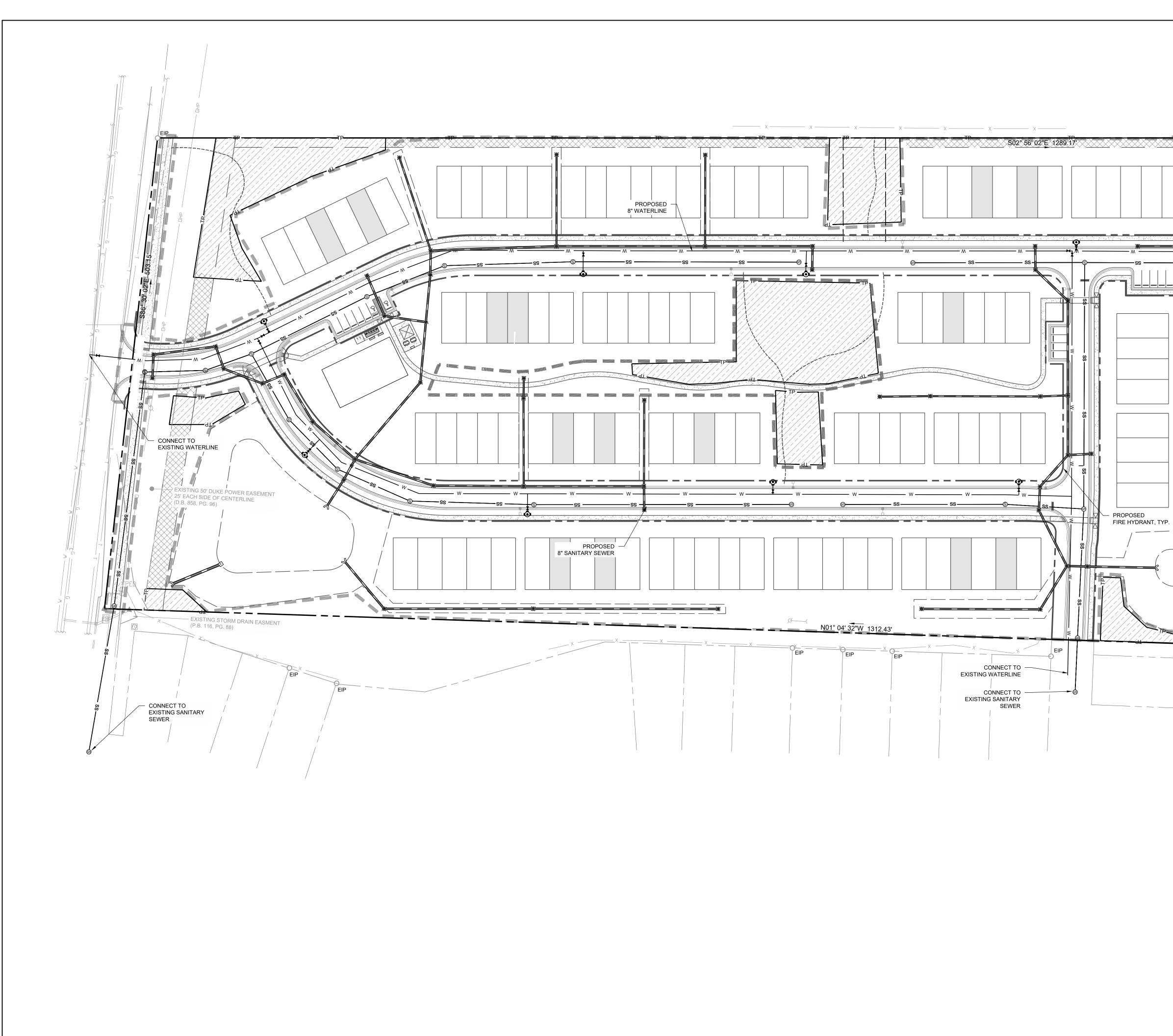
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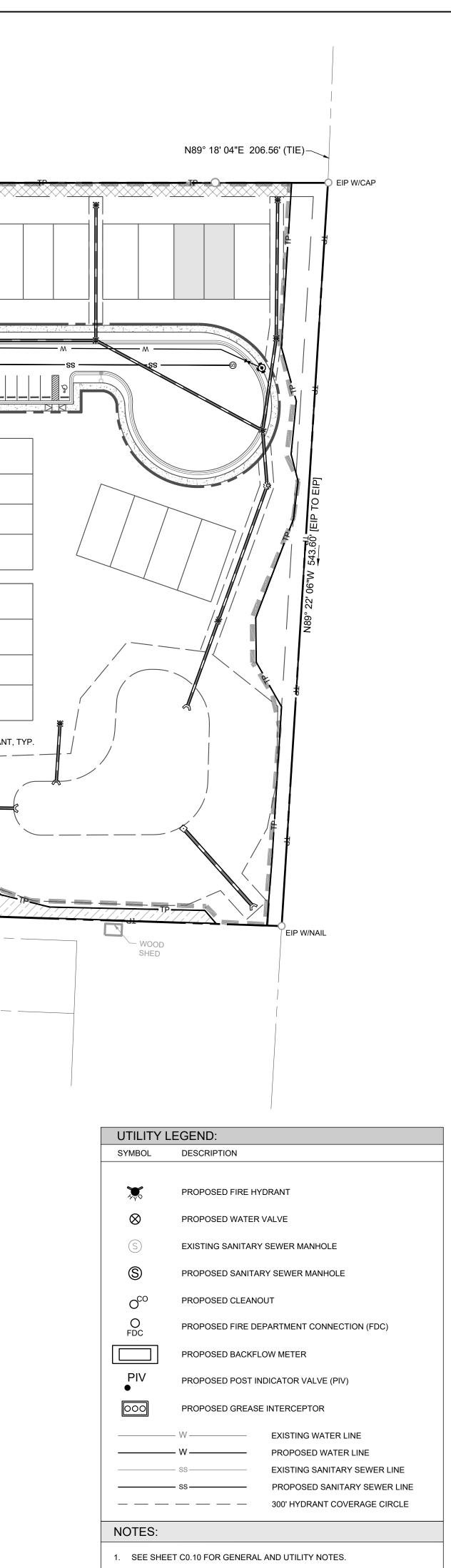


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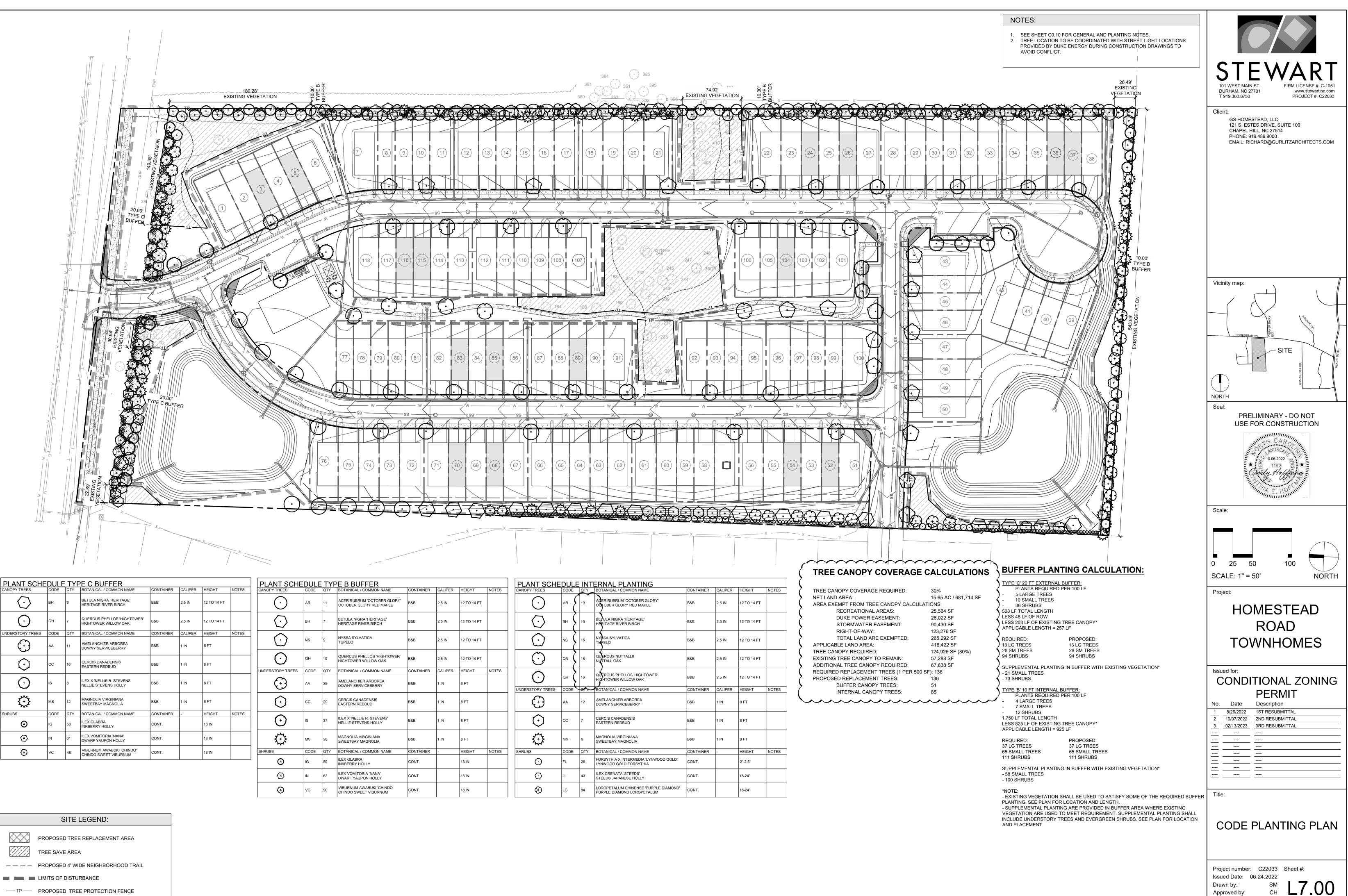
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Client: GS HOMESTEAD, LLC 121 S. ESTES DRIVE, SUITE 100 CHAPEL HILL, NC 27514 PHONE: 919.489.9000 EMAIL: RICHARD@GURLITZARCHITECTS.COM
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Project number: C22033 Sheet #:
Issued Date: 06.24.2022 Drawn by: SM Approved by: TS C3.91







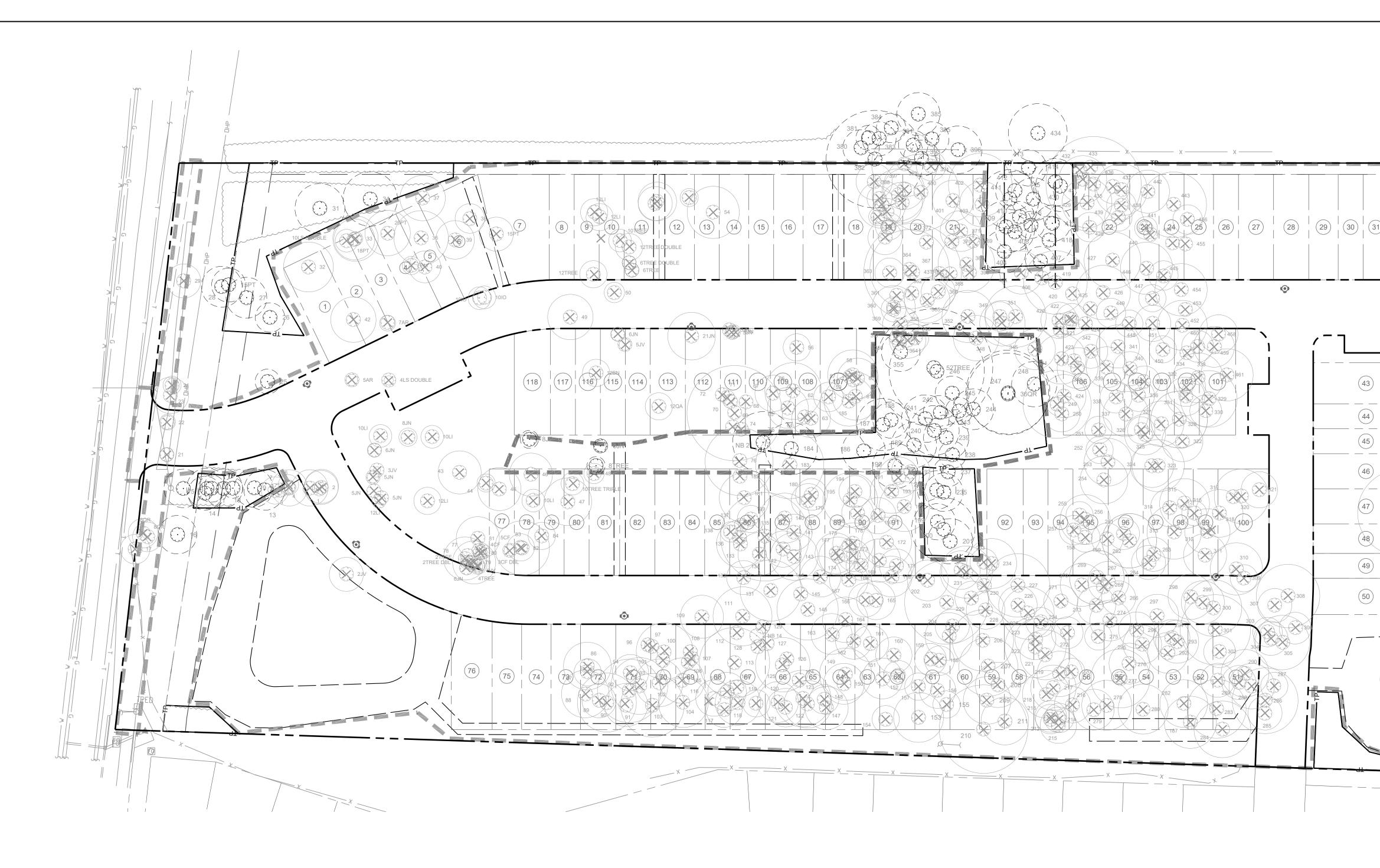
STEWART 101 WEST MAIN ST. DURHAM, NC 27701 T 919.380.8750 FIRM LICENSE #: C-1051 www.stewartinc.com PROJECT #: C22033
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UTILITY PLAN
Project number: C22033 Sheet #: Issued Date: 06.24.2022 Drawn by: SM Approved by: TS C6.00

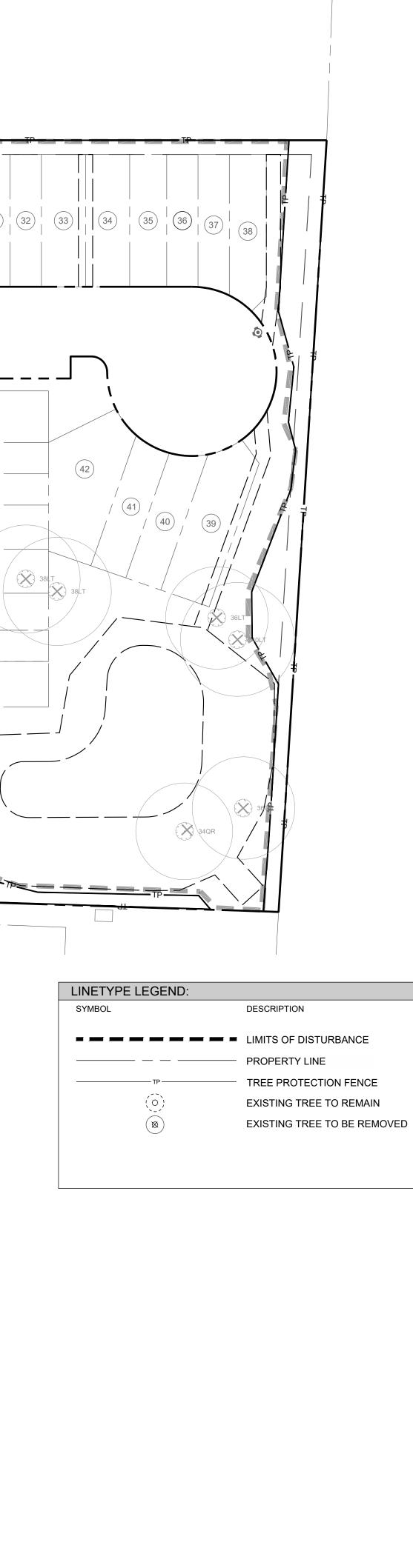


PLANT SCHE			PE C BUFFER				
CANOPY TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	HEIGHT	NOTES
\bigcirc	вн	6	BETULA NIGRA 'HERITAGE' HERITAGE RIVER BIRCH	B&B	2.5 IN	12 TO 14 FT	
\odot	QH	7	QUERCUS PHELLOS 'HIGHTOWER' HIGHTOWER WILLOW OAK	B&B	2.5 IN	12 TO 14 FT	
UNDERSTORY TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	HEIGHT	NOTES
(\cdot)	AA	11	AMELANCHIER ARBOREA DOWNY SERVICEBERRY	B&B	1 IN	8 FT	
(\cdot)	сс	16	CERCIS CANADENSIS EASTERN REDBUD	B&B	1 IN	8 FT	
$\overline{}$	IS	8	ILEX X 'NELLIE R. STEVENS' NELLIE STEVENS HOLLY	B&B	1 IN	8 FT	
مېدىر ۲ + ۲ كىرد	MS	12	MAGNOLIA VIRGINIANA SWEETBAY MAGNOLIA	B&B	1 IN	8 FT	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	-	HEIGHT	NOTES
٢	IG	58	ILEX GLABRA INKBERRY HOLLY	CONT.		18 IN	
(<i>à</i>)	IN	61	ILEX VOMITORIA 'NANA' DWARF YAUPON HOLLY	CONT.		18 IN	
\odot	vc	48	VIBURNUM AWABUKI 'CHINDO' CHINDO SWEET VIBURNUM	CONT.		18 IN	

CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	C
AR	11	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	B&B	2.
вн	7	BETULA NIGRA 'HERITAGE' HERITAGE RIVER BIRCH	B&B	2.
NS	9	NYSSA SYLVATICA TUPELO	B&B	2.
QH	10	QUERCUS PHELLOS 'HIGHTOWER' HIGHTOWER WILLOW OAK	B&B	2.
CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	C
AA	29	AMELANCHIER ARBOREA DOWNY SERVICEBERRY	B&B	1
сс	29	CERCIS CANADENSIS EASTERN REDBUD	B&B	1
IS	37	ILEX X 'NELLIE R. STEVENS' NELLIE STEVENS HOLLY	B&B	1
MS	28	MAGNOLIA VIRGINIANA SWEETBAY MAGNOLIA	B&B	1
CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	-
IG	59	ILEX GLABRA INKBERRY HOLLY	CONT.	
IN	62	ILEX VOMITORIA 'NANA' DWARF YAUPON HOLLY	CONT.	
VC	90	VIBURNUM AWABUKI 'CHINDO' CHINDO SWEET VIBURNUM	CONT.	Τ
	CODE AR BH NS QH CODE AA CC IS MS CODE IG IN	CODE QTY AR 11 BH 7 NS 9 QH 10 CODE QTY AA 29 CC 29 IS 37 MS 28 CODE QTY IG 59 IN 62	CODEQTYBOTANICAL / COMMON NAMEAR11ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLEBH7BETULA NIGRA 'HERITAGE' HERITAGE RIVER BIRCHNS9NYSSA SYLVATICA TUPELOQH10QUERCUS PHELLOS 'HIGHTOWER' HIGHTOWER WILLOW OAKCODEQTYBOTANICAL / COMMON NAMEAA29AMELANCHIER ARBOREA DOWNY SERVICEBERRYIS37ILEX X 'NELLIE R. STEVENS' NELLIE STEVENS HOLLYMS28MAGNOLIA VIRGINIANA SWEETBAY MAGNOLIAIG59ILEX GLABRA INKBERRY HOLLYIN62ILEX VOMITORIA 'NANA' DWARF YAUPON HOLLYVC90VIBURNUM AWABUKI 'CHINDO'	AR11ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLEB&BBH7BETULA NIGRA 'HERITAGE' HERITAGE RIVER BIRCHB&BNS9NYSSA SYLVATICA TUPELOB&BQH10QUERCUS PHELLOS 'HIGHTOWER' HIGHTOWER WILLOW OAKB&BCODEQTYBOTANICAL / COMMON NAMECONTAINERAA29AMELANCHIER ARBOREA DOWNY SERVICEBERRYB&BIS37ILEX X 'NELLIE R. STEVENS' NELLIE STEVENS HOLLYB&BMS28MAGNOLIA VIRGINIANA SWEETBAY MAGNOLIAB&BCODEQTYBOTANICAL / COMMON NAMECONTAINERIG59ILEX GLABRA INKBERRY HOLLYCONT.CONT.IN62ILEX VOMITORIA 'NANA' DWARF YAUPON HOLLYCONT.CONT.

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STEWART 101 WEST MAIN ST. DURHAM, NC 27701 T 919.380.8750 FIRM LICENSE #: C-1051 www.stewartinc.com PROJECT #: C22033
Client: GS HOMESTEAD, LLC 121 S. ESTES DRIVE, SUITE 100 CHAPEL HILL, NC 27514 PHONE: 919.489.9000 EMAIL: RICHARD@GURLITZARCHITECTS.COM
Vicinity map:
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Project:
HOMESTEAD ROAD
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2 100072022 2ND RECODMITINE 3 02/13/2023 3RD RESUBMITTAL
Title:
LANDSCAPE PROTECTION PLAN
Project number: C22033 Sheet #: Issued Date: 06.24.2022 Drawn by: SM L7.10 Approved by: CH

2 3	JUVI PRSE	Eastern Red Cedar Black Cherry	Juniperus virginiana Prunus serratina	15 16	Rare Specimen	
4 5	LIST PITA	Sw eetgum Loblolly Pine	Liquidambar styraciflua Pinus taeda	16 19	Specimen Specimen	
6 7	COFL LIST	Dogw ood Sw eetgum	Cornus florida Liquidambar styraciflua	9 12	Specimen Specimen	
8 9 10	JUVI LIST PRSE	Eastern Red Cedar Sw eetgum Black Cherry	Juniperus virginiana Liquidambar styraciflua Prunus serratina	13 17 9	Rare Specimen NA	
10 11 12	JUVI	Eastern Red Cedar Sw eetgum	Juniperus virginiana Liquidambar styraciflua	17 12	Rare	
13 14	PITA LITU	Loblolly Pine Tulip Poplar	Pinus taeda Liriodendron tulipifera	18 15	Specimen Specimen	
15 16	PYCA PYCA	Callery Pear Callery Pear	Pyrus calleryana Pyrus calleryana	17 17	NA NA	
17 18	JUVI CECA	Eastern Red Cedar Eastern Redbud	Juniperus virginiana Cercis canadensis	-13 8	Rare Specimen	
19 20 21	LITU COFL	American Holly Tulip Poplar	llex opaca Liriodendron tulipifera Cornus florida	7 15 6	Specimen Specimen	
21 22 23	COFL COFL LITU	Dogw ood Dogw ood Tulip Poplar	Cornus florida Liriodendron tulipifera	7	Specimen Specimen Specimen	
24 25	COFL MAGR	Dogw ood Southern Magnolia	Cornus florida Magnolia grandiflora	8	Specimen NA	
26 27	MAGR LIST	Southern Magnolia Sw eetgum	Magnolia grandiflora Liquidambar styraciflua	13 18	Specimen Specimen	
28 29	PITA LITU	Loblolly Pine Tulip Poplar	Pinus taeda Liriodendron tulipifera	18 15	Specimen Specimen	
30 31		Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera	24 22	Specimen Specimen	
32 33 34	PITA LITU PITA	Loblolly Pine Tulip Poplar Loblolly Pine	Pinus taeda Liriodendron tulipifera Pinus taeda	22 20 24	Specimen Specimen Specimen	
35 36	LIST	Sw eetgum Loblolly Pine	Liquidambar styraciflua Pinus taeda	14	Specimen Specimen	
37 38	PITA LIST	Loblolly Pine Sw eetgum	Pinus taeda Liquidambar styraciflua	20 13	Specimen Specimen	
39 		Sw eetgum Eastern Red Cedar Factors Bad Order	Liquidambar styraciflua Juniperus virginiana	17 14	Specimen Rare	
41 42 43	JUVI ACRU BENI	Eastern Red Cedar Red Maple River Birch	Juniperus virginiana Acer rubrum Botula pigra	8 20 19	Specimen Specimen	
43 44 45	ORAT LITU	Haw thorn Tulip Poplar	Betula nigra Crataegus species Liriodendron tulipifera	8 19	Specimen Specimen Specimen	
46	BENI	River Birch River Birch	Betula nigra Betula nigra	19 21	Specimen Specimen	
48 49	COFL Morris	Dogw ood Mulberry	Cornus florida Morus Sp	9 20	Specimen NA	
<u>-50</u> -51	PYCA CECA	Callery Pear Eastern Redbud	Pyrus calleryana Cercis canadensis	9 16	Rare Rare	
52 53		Tulip Poplar Tulip Poplar Block Welput	Liriodendron tulipifera Liriodendron tulipifera	19 17	Specimen Specimen	
54 	JUNI LITU JUNI	Black Walnut Tulip Poplar Black Walnut	Juglans nigra Liriodendron tulipifera Juglans nigra	23 	Specimen Rare Specimen	
56 57 58	JUNI ACRU QUAL	Black Walnut Red Maple White Oak	Juglans nigra Acer rubrum Quercus alba	12 12 22	Specimen Specimen Specimen	
50 59 60		White Oak White Oak Tulip Poplar	Quercus alba Quercus alba Liriodendron tulipifera	22 22 18	Specimen Specimen Specimen	
61 62	LITU CARYA	Tulip Poplar Hickory	Liriodendron tulipifera Carya species	21 13	Specimen Specimen	
63 64	CARYA ACRU	Hickory Red Maple	Carya species Acer rubrum	17 16	Specimen Specimen	
65 66 67		Tulip Poplar Tulip Poplar	Liriodendron tulipifera	18 25 16	Specimen Rare Specimen	
67 68 69	LIST CARYA QUVE	Sw eetgum Hickory Black Oak	Liquidambar styraciflua Carya species Quercus velutina	16 17 42	Specimen Specimen Rare	
70 71	ULAL	Black Oak Winged Elm Black Walnut	Ulmus alatus Juglans nigra	42 14 17	Specimen Specimen	
72 73	CARYA LITU	Hickory Tulip Poplar	Carya species Liriodendron tulipifera	13 21	Specimen Specimen	
74 75		Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera	20 27	Specimen Rare	
<u>76</u> 77		Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera	<u> </u>	Rare Specimen	
78 79 80	LITU PRSE DIVI	Tulip Poplar Black Cherry Persimmon	Liriodendron tulipifera Prunus serratina Diosporos virginiana	19 19 10	Specimen Specimen Specimen	
81 82	CAIL	Pecan Sw eetgum	Carya illinoiensis Liquidambar styraciflua	10 19 12	Specimen Specimen	
83 84	LIST	Sw cetgum Pecan	Liquidambar styraciflua Carya illinoiensis	24 12	Rare Specimen	
85 86	CAIL LITU	Pecan Tulip Poplar	Carya illinoiensis Liriodendron tulipifera	13 21	Specimen Specimen	
87 88	LITU LIST	Tulip Poplar Sw eetgum	Liriodendron tulipifera Liquidambar styraciflua	12 21	Specimen Specimen	
89 		White Oak White Oak	Quercus alba	15 	Specimen Rare	
91 	LIST LIST QUAL	Sw eetgum Sw eetgum White Oak	Liquidambar styraciflua Liquidambar styraciflua Quercus alba	19 	Specimen Rare Rare	
94 95	LIST	Sw eetgum Willow Oak	Liquidambar styraciflua Quercus phellos	16 12	Specimen Specimen	
96 97	LIST QUAL	Sw eetgum White Oak	Liquidambar styraciflua Quercus alba	16 16	Specimen Specimen	
98 99	PRSE	Black Cherry Black Cherry	Prunus serratina Prunus serratina	8	NA NA	
<u>100</u> 101 102	LIST LIST QUAL	Sw eetgum Sw eetgum White Oak	Liquidambar styraciflua Liquidambar styraciflua Quercus alba	25 16 21	Rare Specimen Specimen	
<u>103</u> 104	QUVE	Black Oak White Oak	Quercus velutina Quercus alba	<u>28</u> 22	Rare Specimen	
105 106	QUAL QUAL	White Oak White Oak	Quercus alba Quercus alba	20 15	Specimen Specimen	
107 108	QUMA QUAL	Blackjack Oak White Oak	Quercus marilandica Quercus alba	23 17	Specimen Specimen	
109 110	PITA PITA QUAL	Loblolly Pine Loblolly Pine	Pinus taeda Pinus taeda Quercus alba	19 22 26	Specimen Specimen	
<u>111</u> 112 <u>113</u>	LIST QUAL	White Oak Sw eetgum White Oak	Liquidambar styraciflua	26 17 	Rare Specimen Rare	
114 115	LITU QUAL	Tulip Poplar White Oak	Liriodendron tulipifera Quercus alba	22 17	Specimen Specimen	
116 117	QUAL LIST	White Oak Sw eetgum	Quercus alba Liquidambar styraciflua	16 16	Specimen Specimen	
118 119	FRAX CATO	Ash Mockernut Hickory	Fraxinus species Carya tomentosa	20 12	Specimen Specimen	
120 121 122	QUAL QUAL	White Oak	Quercus alba	40		
122 		White Oak	Quercus alba	18 17 21	Specimen Specimen	
		Tulip Poplar White Oak	Liriodendron tulipifera	17 21 25	Specimen Specimen Specimen Rare	
124 - 125 126	LITU	Tulip Poplar	Liriodendron tulipifera	17 21	Specimen Specimen Specimen	
124 - 125 126 127 128	LITU QUAL CATO QUAL LIST FRAX NYSY	Tulip Poplar White Oak Mockernut Hickory White Oak Sw eetgum Ash Blackgum	Liriodendron tulipifera Quercus alba Carya tomentosa Quercus alba Liquidambar styraciflua Fraxinus species Nyssa sylvatica	17 21 25 13 24 14 15 13	Specimen Specimen Rare Specimen Rare Specimen Specimen Specimen	
124 - 125 126 127 128 129 130	LITU QUAL CA TO QUAL LIST FRAX NY SY NY SY ILOP	Tulip Poplar White Oak Mockernut Hickory White Oak Sw eetgum Ash Blackgum Blackgum American Holly	Liriodendron tulipifera Quercus alba Carya tomentosa Quercus alba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Nyssa sylvatica lex opaca	17 21 25 13 24 14 15 13 12 6	Specimen Specimen Rare Specimen Rare Specimen Specimen Specimen Specimen Specimen	
124 - 125 126 127 128 129 130 - 131 132	LITU QUAL CATO QUAL LIST FRAX NYSY NYSY ILOP NYSY LIST	Tulip Poplar White Gak Mockernut Hickory White Gak Sw eetgum Ash Blackgum Blackgum Blackgum Sw eetgum	Liriodendron tulipifera Cuercus atba Carya tomentosa Quercus atba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Ilex opaca Nyssa sylvatica Liquidambar styraciflua	17 21 25 13 24 14 15 13 12 6 27 15	Specimen Specimen Rare Specimen Rare Specimen	
124 - 125 126 127 128 129 130 - 131 132 133 134	LITU QUAL CATO OLAL LIST FRAX NYSY NYSY NYSY NLOP NYSY LIST LIST LIST	Tulip Poplar White Gak Mockernut Hickory White Gak Sw eetgum Ash Blackgum Blackgum Blackgum Blackgum Sw eetgum Sw eetgum Sw eetgum Tulip Poplar	Liriodendron tulipifera Quercus alba Carya tomentosa Quercus alba Liquidambar styraciffua Fraxinus species Nyssa sylvatica Nyssa sylvatica Ilex opaca Nyesa eylvatica Liquidambar styraciffua Liquidambar styraciffua Liquidambar styraciffua	17 21 25 13 24 14 15 13 12 6 27 15 21 19	Specimen Specimen Rare Specimen Rare Specimen	
124 - 125 126 127 128 129 130 - 131 132 133	LITU QUAL CA TO QUAL LIST FRAX NY SY NY SY ILOP NY SY LIST LIST	Tulip Poplar White Gak Mockernut Hickory White Gak Sw eetgum Ash Blackgum Blackgum Blackgum Blackgum Sw eetgum Sw eetgum	Liriodendron tulipifera Quercus alba Carya tomentosa Quercus alba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Nyssa sylvatica Ilex opaca Nyssa eytvatica Liquidambar styraciflua Liquidambar styraciflua	17 21 25 13 24 14 15 13 12 6 27 15 21	Specimen Specimen Rare Specimen Rare Specimen	
124 125 126 127 128 129 130 131 132 133 134 -135 136	LITU QUAL CATO UIST FRAX NYSY ILOP NYSY LIST LIST LITU LITU LIST	Tulip Poplar White Oak Mockernut Hickory White Oak Sw eetgum Ash Blackgum Blackgum American Holly Blackgum Sw eetgum Sw eetgum Tulip Poplar Tulip Poplar Sw eetgum	Liriodendron tulipifera Quercus alba Carya tomentosa Quercus alba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Nyssa sylvatica llex opaca Nyssa sylvatica Liquidambar styraciflua Liquidambar styraciflua Liriodendron tulipifera Liquidambar styraciflua	17 21 25 13 24 14 15 13 12 6 27 15 21 19 39 13	Specimen Specimen Rare Specimen Rare Specimen Rare Specimen Specimen Specimen Specimen Specimen Specimen Specimen Specimen Specimen	
124 125 126 127 128 129 130 131 132 133 134 136 137 138 139 140 141	LITU QUAL CATO QUAL LIST FRAX NYSY NYSY LIST LIST LIST LIST LIST UTU LIST QUMA OXAR QUAL CATO	Tulip Poplar White Oak Mockernut Hickory White Oak Sw eetgum Ash Blackgum Blackgum American Holly Blackgum Sw eetgum Sw eetgum Tulip Poplar Tulip Poplar Sw eetgum Blackjack Oak Sourw ood White Oak Mockernut Hickory Blackgum	Liriodendron tulipifera Quercus atba Carya tomentosa Quercus atba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Nyssa sylvatica Ilex opaca Nyssa e sylvatica Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liriodendron tulipifera Liquidambar styraciflua Quercus marilandica Oxydendron arboreum Quercus atba Carya tomentosa Nyssa sylvatica	17 21 25 13 24 15 13 12 6 27 15 21 19 39 13 13 13 13 13 13 13 13 13 13 13 13 13 16	Specimen Specimen Rare Specimen Rare Specimen	
124 - 125 126 127 128 129 130 - 131 132 133 134 - 135 136 137 138 139 140 141 142 143	LITU QUAL CATO QUAL LIST FRAX NYSY NYSY LIST LIST LIST LIST LIST LIST LIST QUMA OXAR QUAL CATO NYSY QUVE QUAL	Tulip Poplar White Cak Mckernut Hickory White Cak Sw eetgum Ash Blackgum Blackgum Blackgum Sw eetgum Sw eetgum Tulip Poplar Tulip Poplar Sw eetgum Blackgack Oak Sourw ood White Oak White Oak	Liriodendron tulipifera Quercus alba Carya tomentosa Quercus alba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Nyssa sylvatica liex opaca Nyssa sylvatica Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Quercus marilandica Oxydendron alboreum Quercus alba Carya tomentosa Nyssa sylvatica Quercus velutina Quercus velutina Quercus velutina	17 21 25 13 24 14 15 13 12 6 27 15 21 19 9 9 13 13 13 9 9 12 22 22 16 16 21	Specimen Specimen Rare Specimen Rare Specimen	
124 - 125 126 127 128 129 130 - 131 133 133 134 - 135 136 137 138 139 140 141 142 143 144 145	LITU QUAL CATO QUAL LIST FRAX NYSY LIST LIST LIST LIST LIST LIST QUAL QUAL QUAL QUAL LIST	Tulip Poplar White Gak Mockernut Hickory White Gak Sw eetgum Ash Blackgum Blackgum Blackgum Blackgum Sw eetgum Sw eetgum Tulip Poplar Tulip Poplar Tulip Poplar Sw eetgum Blackjack Oak Sourw ood White Oak Mockernut Hickory Blackgum Blackgum Blackgum Blackgum Blackgum	Liriodendron tulipifera Quercus alba Carya tomentosa Quercus alba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Nyssa sylvatica Ilex opaca Nysea sylvatica Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Quercus natilandica Oxydendron arboreum Quercus alba Carya tomentosa Nyssa sylvatica Quercus alba Quercus alba Quercus alba Quercus alba Quercus alba Quercus alba Quercus alba	17 21 25 13 24 14 15 13 12 6 6 27 15 21 19 38 13 13 13 9 9 12 22 22 16 16 16 18 8 15	Specimen Specimen Rare Specimen Rare Specimen	
124 - 125 126 127 128 129 130 - 131 132 133 134 - 135 136 137 138 139 140 141 142 143 144	LITU QUAL CATO ULST LIST FRAX NYSY LISP LIST LIST LIST LIST LIST LIST LIST QUMA OXAR QUAL CATO NYSY QUAL QUAL	Tulip Poplar White Cak Mckernut Hickory White Cak Sw eetgum Ash Blackgum Blackgum Blackgum Sw eetgum Sw eetgum Tulip Poplar Tulip Poplar Sw eetgum Blackgack Oak Sourw ood White Oak White Oak	Liriodendron tulipifera Quercus alba Carya tomentosa Quercus alba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Nyssa sylvatica Ilex opaca Nysea eytvatica Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Quercus marilandica Oxydendron arboreum Quercus alba Carya tomentosa Nyssa sylvatica Quercus velutina Quercus velutina Quercus alba	17 21 25 13 24 14 15 13 12 26 6 6 6 27 15 21 15 21 15 21 13 39 9 12 22 22 16 16 21 18	Specimen Specimen Rare Specimen Rare Specimen	
124 -125 126 127 128 129 130 -131 132 133 134 -135 136 137 138 139 140 141 142 143 144 145 -146 147	LITU QUAL CATO QUAL LIST FRAX NYSY LIST LIST LIST LIST LIST LIST QUMA QUAL QUAL QUAL LIST QUAL QUAL	Tulip Poplar White Gak Mockernut Hickory White Gak Sw eetgum Ash Blackgum Blackgum Blackgum Sw eetgum Sw eetgum Sw eetgum Tulip Poplar Tulip Poplar Sw eetgum Blackjack Oak Sourw ood White Oak White Oak Sw eetgum Black Oak White Oak Sw eetgum Sw eetgum Blackgum Blackgum Blackgum Black Oak White Oak Sw eetgum Sw eetgum	Liriodendron tulipifera Quercus atba Carya tomentosa Quercus atba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Ilex opaca Nyssa sylvatica Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Quercus marilandica Oxydendron arboreum Quercus alba Carya tomentosa Nyssa sylvatica Quercus alba Quercus alba	17 21 25 13 24 15 13 22 13 9 9 12 22 16 16 17 18 15 27 19	Specimen Specimen Specimen Rare Specimen	
124 -125 126 127 128 129 130 -131 132 133 134 -135 136 137 138 139 140 141 142 143 144 1445 -146 147 148 149 150 151 152	LITU QUAL CATO QUAL LIST FRAX NYSY LIST LIST LIST LIST LIST LIST LIST LIST	Tulip Poplar White Gak Mockernut Hickory White Gak Sw eetgum Ash Blackgum Blackgum Sw eetgum Sw eetgum Sw eetgum Sw eetgum Tulip Poplar Tulip Poplar Sw eetgum Blackgack Oak Sourw ood White Oak White Oak	Liriodendron tulipifera Quercus atba Carya tomentosa Quercus atba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Ilex opaca Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Quercus marilandica Oxydendron atbipifera Liquidambar styraciflua Quercus atba Quercus atba	17 21 25 13 24 15 13 12 6 27 15 21 19 39 12 22 16 16 21 15 27 19 13 23 13 15 27 19 13 13 13 14 15 27 19 13 13 18 18 13	Specimen Specimen Rare Specimen Rare Specimen Sp	
124 -125 126 127 128 129 130 -131 133 134 -135 136 137 138 139 140 141 142 143 144 145 -146 144 145 -146 147 148 149 150 151 152 153 154	LITU QUAL CATO ULST LIST FRAX NYSY NYSY LIST LIST LIST LIST LIST LIST LIST LIST	Tulip Poplar White Gak Mckernut Hickory White Gak Sw eetgum Ash Blackgum Blackgum Blackgum Blackgum Sw eetgum Sw eetgum Tulip Poplar Tulip Poplar Sw eetgum Blackjack Oak Sourw ood White Oak White Oak	Liriodendron tulipifera Quercus alba Carya tomentosa Quercus alba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Nyssa sylvatica Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Quercus marilandica Oxydendron atbipifera Liquidambar styraciflua Quercus alba Quercus alba Quercus velutina Quercus alba Quercus alba Liquidambar styraciflua Quercus alba Quercus alba Carya tomentosa Fraxinus species Carya tomentosa	17 21 25 13 24 14 15 12 6 27 15 21 13 9 12 22 16 16 17 18 15 27 19 30 12 22 16 16 17 18 13 23 18 18 13 23 18 13 23 18 13 22 12	Specimen Specimen Specimen Rare Specimen Sp	
124 125 126 127 128 129 130 -131 132 133 134 -136 137 138 139 140 141 142 143 144 145 -146 147 148 145 -146 147 148 150 151 152 153 154	LITU QUAL CATO QUAL LIST FRAX NYSY ILOS LIST LIST LIST LIST LIST QUMA OXAR QUAL QUAL QUAL QUAL QUAL QUAL QUAL QUAL	Tulip Poplar White Gak Mckernut Hickory White Gak Sw eetgum Ash Blackgum Blackgum Blackgum Sw eetgum Sw eetgum Sw eetgum Tulip Poplar Tulip Poplar Tulip Poplar Sw eetgum Blackjack Oak Swite Oak White Oak Sw eetgum Mockernut Hickory Ash Mockernut Hickory Ash Mockernut Hickory	Liriodendron tulipifera Quercus atba Carya tomentosa Quercus atba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Nyssa sylvatica liex opaca Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Quercus marilandica Oxydendron arboreum Quercus alba Carya tomentosa Nyssa sylvatica Quercus alba Quercus alba Liquidambar styraciflua Carya tomentosa Fraxinus species Carya tomentosa Carya glabra	17 21 25 13 24 15 13 12 6 27 15 21 19 13 13 13 13 13 13 13 12 22 16 16 16 15 27 19 13 22 16 16 17 18 13 23 18 13 22 16	Specimen Specimen Rare Specimen Rare Specimen Specim	
124 -125 126 127 128 129 130 -131 133 134 -135 136 137 138 139 140 141 142 143 144 145 -146 147 148 149 150 151 152 153 154 155 156 157 158	LITU QUAL CATO QUAL LIST FRAX NYSY LIST LIST LIST LIST LIST LIST QUMA OXAR QUAL QUAL QUAL QUAL QUAL QUAL QUAL QUAL	Tulip Poplar White Gak Mockernut Hickory White Gak Sw eetgum Ash Blackgum Blackgum Blackgum Sw eetgum Sw eetgum Tulip Poplar Tulip Poplar Sw eetgum Blackgack Oak Sw eetgum Blackgack Oak Sw eetgum Blackgack Oak Sw eetgum Blackgack Oak White Oak Pinut Hickory Sw eetgum Pignut Hickory Sw eetgum	Liriodendron tulipifera Quercus atba Carya tomentosa Quercus atba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Ilex opaca Nyssa sylvatica Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Quercus marilandica Oxydendron atboreum Quercus atba Carya tomentosa Liquidambar styraciflua Quercus alba Quercus a	17 21 25 13 24 15 13 12 21 19 39 12 22 16 16 15 21 18 15 21 18 13 22 21 18 13 23 14 15 21 12 22 13 13 13 13 23 13 13 13 13 13 13 13 16 172 16 172 13	Specimen Specimen Specimen Rare Specimen Sp	
124 125 126 127 128 129 130 -431 132 133 134 -135 136 137 138 139 140 141 142 143 144 145 144 145 144 145 144 145 144 145 144 145 147 148 149 150 151 152 153 154 155 156 157	LITU QUAL CATO QUAL LIST FRAX NYSY LIST LIST LIST LIST LIST LIST LIST LIST	Tulip Poplar White Oak Mockernut Hickory Ash Blackgum Ash Blackgum Blackgum Sw eetgum Sw eetgum Sw eetgum Sw eetgum Sw eetgum Blackgu	Liriodendron tulipifera Quercus atba Carya tomentosa Quercus atba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Ilex opaca Nyssa sylvatica Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Quercus marilandica Oxydendron tulipifera Liquidambar styraciflua Quercus atba Quercus at	17 21 25 13 24 15 13 12 6 27 15 21 19 39 12 22 16 16 21 18 18 13 22 16 16 21 15 27 19 13 22 16 17 19 13 23 23 23 18 18 13 22 12 12 12 12	Specimen Specimen Rare Specimen Rare Specimen Specim	
124 125 126 127 128 129 130 -131 133 134 -135 136 137 138 139 140 141 142 143 144 145 -146 147 148 149 150 151 152 153 154 155 156 157 158 159 160	LITU QUAL CATO QUAL LIST FRAX NYSY LLST LIST LIST LIST LIST LIST QUMA OXAR QUAL QUAL QUAL QUAL QUAL QUAL QUAL QUAL	Tulip Poplar White Gak Mckernut Hickory White Gak Sw eetgum Ash Blackgum Blackgum Blackgum Sw eetgum Sw eetgum Sw eetgum Tulip Poplar Tulip Poplar Tulip Poplar Tulip Poplar Sw eetgum Blackjack Oak Sourw ood White Oak Mockernut Hickory Black Oak White Oak Sw eetgum White Oak White Oak Sw eetgum Mockernut Hickory Sw eetgum Hockernut Hickory Sw eetgum Mockernut Hickory Sw eetgum	Liriodendron tulipifera Quercus atba Carya tomentosa Quercus atba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Ilex opaca Nyssa sylvatica Ilex opaca Nyssa sylvatica Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liriodendron tulipifera Liquidambar styraciflua Quercus marilandica Oxydendron arboreum Quercus marilandica Oxydendron arboreum Quercus alba Carya tomentosa Nyssa sylvatica Quercus alba Quercus alba Liquidambar styraciflua Carya tomentosa Fraxinus species Carya tomentosa Liquidambar styraciflua Carya glabra Liquidambar styraciflua Carya glabra Liquidambar styraciflua Quercus alba Quercus alba	17 21 25 13 24 15 13 12 6 27 15 21 19 13 13 14 15 27 16 16 15 27 18 18 13 23 18 13 22 16 15 27 19 13 13 13 13 13 23 18 18 13 22 12 13 12 12 13 14	Specimen Specimen Rare Specimen Rare Specimen Specim	
124 125 126 127 128 129 130 -131 133 134 -135 136 137 138 139 140 141 142 143 144 145 -146 147 148 149 150 151 155 156 157 158 159 160 161 162 163 164	LITU QUAL CATO QUAL LIST FRAX NYSY ILOS LIST LIST LIST LIST LIST QUMA OXAR QUAL CATO RAV QUAL QUAL QUAL QUAL QUAL QUAL QUAL QUAL	Tulip Poplar White Gak Mckernut Hickory White Gak Sw eetgum Ash Blackgum Blackgum Blackgum Sw eetgum Sw eetgum Sw eetgum Tulip Poplar Tulip Poplar Tulip Poplar Tulip Poplar Sw eetgum Blackjack Oak Sourw ood White Oak White Oak Blackorut Hickory Sw eetgum White Oak Black Oak Mockernut Hickory Sw eetgum White Oak Black Oak Mockernut Hickory Sw eetgum White Oak Black Oak Mockernut Hickory Sw eetgum White Oak Black Oak Mockernut Hickory Sw eetgum White Oak	Liriodendron tulipifera Quercus atba Carya tomentosa Quercus atba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Nyssa sylvatica liex opaca Nyssa sylvatica Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Quercus marilandica Oxydendron arboreum Quercus marilandica Oxydendron arboreum Quercus atba Quercus atba Liquidambar styraciflua Carya tomentosa Fraxinus species Carya quertosa Carya glabra Carya glabra Quercus atba Quercus atba	17 21 25 13 24 15 12 6 27 15 21 19 13 13 13 14 15 27 16 16 16 17 19 13 22 16 15 27 19 13 23 18 18 13 22 16 17 12 12 13 13 13 13 13 13 14 16 16 16 16 16 18	Specimen Specimen Rare Specimen Rare Specimen Specim	
124 125 128 129 130 -131 133 134 135 136 137 138 139 140 141 142 143 144 145 144 145 144 145 144 145 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167	LITU QUAL CATO QUAL LIST FRAX NYSY LIST LIST LIST LIST LIST LIST QUMA QUAL QUAL QUAL QUAL QUAL QUAL QUAL QUA	Tulip Poplar White Oak Mockernut Hickory Ash Blackgum Ash Blackgum Blackgum Sw eetgum Sw eetgum Sw eetgum Sw eetgum Tulip Poplar Tulip Poplar Sw eetgum Blackgack Oak Sourw ood White Oak Mockernut Hickory Blackgum Black Oak White Oak White Oak White Oak Sw eetgum Sw eetgum Sw eetgum Sw eetgum White Oak White Oak Sw eetgum Mockernut Hickory Sw eetgum Mockernut Hickory Sw eetgum Mockernut Hickory Pignut Pignut Pignut Pignut Pignut Pignut Pignut Pignut Pignut	Liriodendron tulipifera Quercus atba Quercus atba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Ikyssa sylvatica Ikyssa sylvatica Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Quercus marilandica Oxydendron tulipifera Liquidambar styraciflua Quercus marilandica Oxydendron arboreum Quercus atba Quercus atba Quercu	17 21 25 13 24 15 13 12 6 27 15 21 19 39 12 22 16 16 21 18 13 22 16 16 17 18 13 22 16 16 17 16 16 17 16 16 17 17 15 17	Specimen Specimen Rare Specimen Rare Specimen Specim	
124 125 126 127 128 129 130 -131 133 134 -135 136 137 138 139 140 141 142 143 144 145 -146 144 145 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169	LITU QUAL CATO QUAL LIST FRAX NYSY LLST LIST LIST LIST LIST LIST QUMA QUAL QUAL QUAL QUAL QUAL QUAL QUAL QUA	Tulip Poplar White Gak Mckernut Hickory White Gak Sw eetgum Ash Blackgum Blackgum Blackgum Sw eetgum Sw eetgum Tulip Poplar Tulip Poplar Sw eetgum Blackjack Oak Sw eetgum Blackjack Oak White Oak Black Oak White Oak	Liriodendron tulipifera Quercus atba Carya tomentosa Quercus atba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Nyssa sylvatica Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Quercus marilandica Oxydendron atboreum Quercus atba Carya tomentosa Liquidambar styraciflua Quercus alba Quercus alba Carya tomentosa Liquidambar styraciflua Carya glabra Carya glabra Carya glabra Quercus alba Quercus alba Liquidambar styraciflua Carya glabra	17 21 25 13 24 14 15 12 6 27 15 21 13 39 313 13 12 22 16 16 16 17 13 22 16 16 17 13 22 16 17 13 22 16 17 13 15 12 16 16 16 16 16 16 16 18 20 17 15 17 13 19	Specimen Specimen Rare Specimen Rare Specimen Specim	
124 125 126 127 128 129 130 -131 133 133 134 -135 136 137 138 139 140 141 142 143 144 145 -146 147 148 149 150 151 152 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171	LITU QUAL CATO QUAL LIST FRAX NYSY NYSY LIST LIST LIST LIST LIST QUMA OXAR QUAL CATO NYSY QUVE QUAL QUAL QUAL QUAL QUAL LIST CATO FRAX QUAL QUAL LIST CATO FRAX QUAL QUAL QUAL LIST CATO FRAX QUAL QUAL LIST CATO FRAX QUAL QUAL LIST CATO FRAX QUAL QUAL LIST CATO FRAX QUAL LIST QUAL LIST QUAL LIST QUAL LIST QUAL LIST QUAL LIST QUAL QUAL QUAL QUAL QUAL QUAL QUAL QUAL	Tulip Poplar White Gak Mckernut Hickory White Gak Sw eetgum Ash Blackgum Blackgum Sw eetgum Sw eetgum Sw eetgum Sw eetgum Sw eetgum Blackgack Oak Sw eetgum Blackjack Oak Sw eetgum Blackjack Oak Sw eetgum Blackgack Oak White Oak White Oak White Oak White Oak White Oak White Oak White Oak White Oak Sw eetgum Mockernut Hickory Ash Mockernut Hickory Ash Mockernut Hickory Sw eetgum Pignut Hickory Sw eetgum Pignut Hickory Sw eetgum Pignut Hickory Sw eetgum Mockernut Hickory Pignut Hickory Sw eetgum Mite Oak Mockernut Hickory Sw eetgum Pignut Hickory Sw eetgum White Oak Mockernut Hickory Sw eetgum Mockernut Hickory Sw eetgum White Oak Mockernut Hickory Sw eetgum White Oak Mockernut Hickory Sw eetgum White Oak Mockernut Hickory Sw eetgum White Oak Mockernut Hickory White Oak Mockernut Hickory Sw eetgum Tulip Poplar White Oak Tulip Poplar	Liriodendron tulipifera Quercus atba Carya tomentosa Quercus atba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Nyssa sylvatica Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Quercus marilandica Oxydendron atlipifera Liquidambar styraciflua Quercus marilandica Oxydendron arboreum Quercus alba Carya tomentosa Quercus alba Quercus alba Carya tomentosa Fraxinus species Carya glabra Liquidambar styraciflua Quercus velutina Quercus velutina Quercus velutina Quercus velutina Quercus alba Quercus alba Liquidambar styraciflua Liriodendron tulipifera Quercus alba Liriodendron tulipifera	17 21 25 13 24 15 13 22 16 13 13 12 6 27 15 21 19 13 13 22 16 16 15 27 19 13 12 21 16 16 12 13 13 22 16 17 13 14 16 16 16 16 17 13 19 13 19 18 15 17 13 18	Specimen Specimen Rare Specimen Rare Specimen Specim	
124 125 126 127 128 129 130 -131 133 134 -135 136 137 138 139 140 141 142 143 144 145 -146 147 148 149 150 151 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170	LITU QUAL CATO QUAL LIST FRAX NYSY NYSY LIST LIST LIST LIST UTU LIST QUMA OXAR QUAL CATO RAV QUAL QUAL QUAL QUAL QUAL QUAL QUAL QUAL	Tulip Poplar White Gak Mckernut Hickory White Gak Sw eetgum Ash Blackgum Blackgum Blackgum Sw eetgum Sw eetgum Sw eetgum Tulip Poplar Tulip Poplar Tulip Poplar Sw eetgum Blackjack Oak Sourw ood White Oak White Oak Sw eetgum Mockernut Hickory Sw eetgum Mite Oak Mockernut Hickory Sw eetgum Tulip Poplar White Oak	Liriodendron tulipifera Quercus atba Carya tomentosa Quercus atba Liquidambar styraciflua Fraxinus species Nyssa sylvatica Ilex opaca Nyssa sylvatica Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Quercus marilandica Oxydendron atbipifera Liquidambar styraciflua Quercus atba Carya tomentosa Liquidambar styraciflua Quercus alba Quercus alba Carya glabra Liquidambar styraciflua Carya glabra Quercus alba Quercus alba Carya glabra Quercus alba Quercus alba Liquidambar styraciflua Quercus alba Quercus alba Liquidambar styraciflua Quercus alba Liquidambar styraciflua Quercus alba Liquidambar styraciflua Quercus alba Liriodendron tulipifera Quercus alba Liriodendron tulipifera	17 21 25 13 24 15 12 6 27 15 21 19 13 13 13 14 15 27 16 16 17 18 13 22 16 15 27 19 13 23 13 23 13 22 16 17 12 12 13 13 12 13 13 13 14 16 16 16 17 13 13 13	Specimen Specimen Rare Specimen Sp	
124 -125 128 129 130 -131 133 134 -135 136 137 138 139 140 141 142 143 144 145 -146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173	LITU QUAL CATO QUAL LIST LIST LIST LIST LIST LIST LIST LIS	Tulip Poplar White Gak Mckernut Hickory White Gak Sw eetgum Ash Blackgum Blackgum Blackgum Sw eetgum Sw eetgum Sw eetgum Tulip Poplar Tulip Poplar Sw eetgum Blackgack Oak Sw eetgum Blackgack Oak Sw eetgum Blackgack Oak Sw eetgum Blackgack Oak White Oak Blackgam Mcckernut Hickory Sw eetgum White Oak Black Oak Mockernut Hickory Sw eetgum White Oak Black Oak Mockernut Hickory Sw eetgum White Oak Black Oak Mockernut Hickory Sw eetgum Tulip Poplar White Oak Tulip Poplar White Oak Tulip Poplar	Liriodendron tulipifera Quercus atba Carya tomentosa Quercus atba Fraxinus species Nyssa sylvatica Nyssa sylvatica Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Liquidambar styraciflua Quercus marilandica Oxydendron tulipifera Liquidambar styraciflua Quercus marilandica Oxydendron arboreum Quercus atba Carya tomentosa Quercus atba Quercus quata Carya glabra Liquidambar styraciflua Carya glabra Liquidambar styraciflua Quercus atba Quercus atba Quercus atba Liquidambar styraciflua Quercus atba Quercus atba Liquidambar styraciflua Quercus atba Quercus atba Liquidambar styraciflua Quercus atba Quercus atba Liquidambar styraciflua Quercus atba	17 21 25 13 24 14 15 12 6 27 15 21 13 39 13 13 13 13 14 15 27 16 16 17 13 23 18 18 13 22 16 17 13 22 16 17 13 22 16 16 16 16 16 16 16 16 16 16 17 13 19 18	Specimen Specimen Rare Specimen Sp	

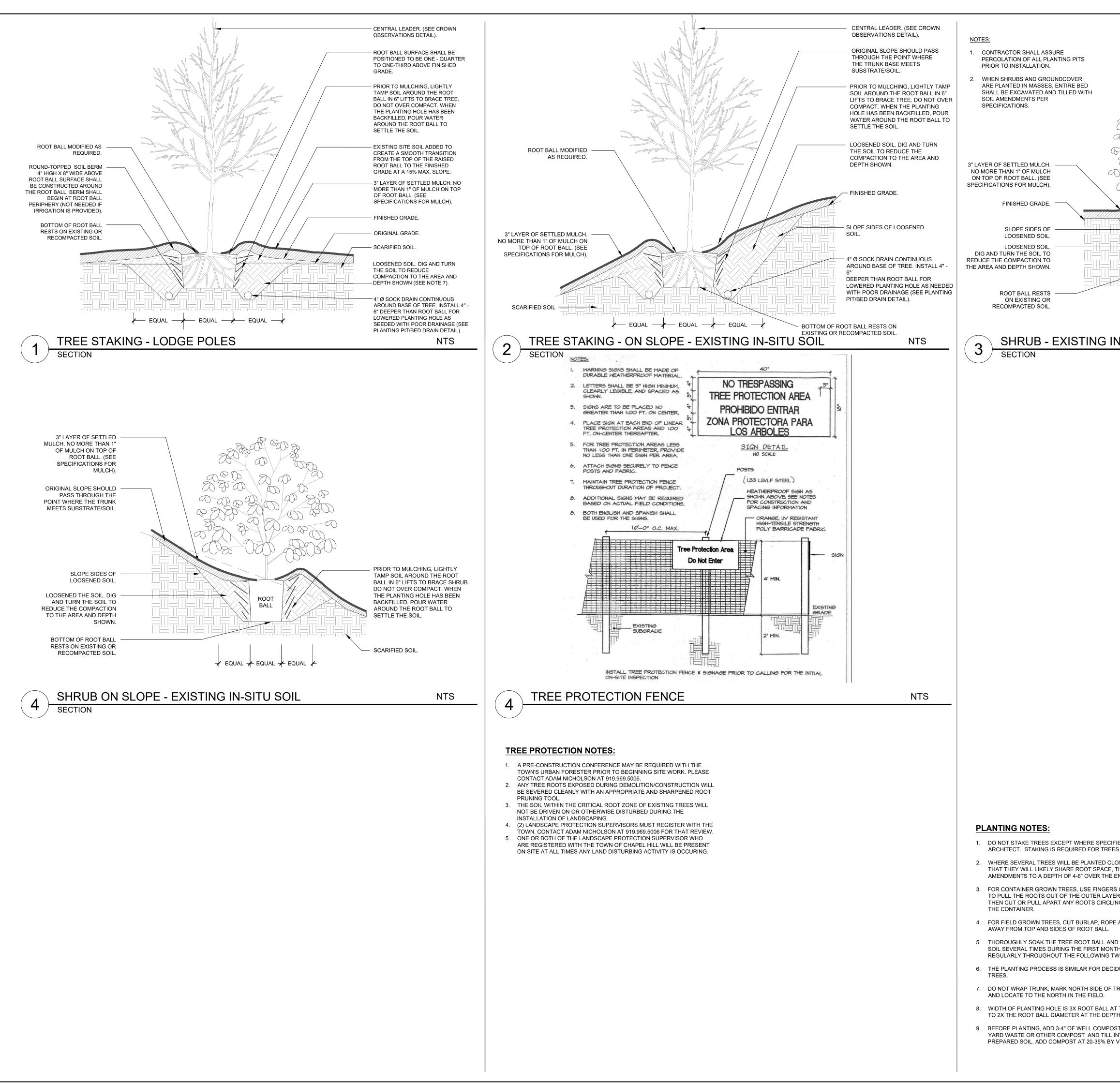
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181 182	LIST	Sw eetgum Sw eetgum	Liquidambar styraciflua Liquidambar styraciflua	22 12	Specimen Specimen																													
- 183 184 185		Tulip Poplar Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera Liriodendron tulipifera	30 23 22	Rare Specimen Specimen																													
186 187	QUAL	White Oak White Oak	Quercus alba Quercus alba	19 23	Specimen Specimen																													
188 189	QUAL QUAL	White Oak White Oak	Quercus alba Quercus alba	16 20	Specimen Specimen																													
190 191	QUMA LITU	Blackjack Oak Tulip Poplar	Quercus marilandica Liriodendron tulipifera	20 18	Specimen Specimen																													
192 193		Tulip Poplar Tulip Poplar	Liriodendron tulipifera	17 19	Specimen Specimen																													
194 - 195 196	QUAL QUAL QUAL	White Oak White Oak White Oak	Quercus alba Quercus alba Quercus alba	14 24 14	Specimen Rare Specimen																													
197 198	QUAL	White Oak White Oak	Quercus alba Quercus alba	16	Specimen Specimen																													
199 200	QUAL	White Oak Tulip Poplar	Quercus alba Liriodendron tulipifera	16 28	Specimen Rare																													
201 202	CARYA CATO	Hickory Mockernut Hickory	Carya species Carya tomentosa	20 18	Specimen Specimen																													
203 204	LITU CARYA	Tulip Poplar Hickory	Liriodendron tulipifera Carya species	37 15	Rare Specimen																													
205 		White Oak Tulip Poplar	Quercus alba	21 27	Specimen Rare																													
207 208 209		Tulip Poplar Tulip Poplar White Oak	Liriodendron tulipifera Liriodendron tulipifera Quercus alba	26 20 21	Rare Specimen Specimen																													
203 210 211		Tulip Poplar Tulip Poplar	Liriodendron tulipifera	39 21	Rare Specimen																													
212 213		Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera	13 14	Specimen Specimen																													
214 215		Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera	13 16	Specimen Specimen																													
216 217		White Oak Tulip Poplar	Quercus alba Liriodendron tulipifera	16 20	Specimen Specimen																													
218 219 220		Tulip Poplar Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera Liriodendron tulipifera	21 20 12	Specimen Specimen Specimen																													
221		Tulip Poplar Tulip Poplar	Liriodendron tulipifera	22	Specimen																													
223 224	CAGL CARYA	Pignut Hickory Hickory	Carya glabra Carya species	18 13	Specimen Specimen																													
225 226	LITU LITU	Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera	23 17	Specimen Specimen																													
227 228 229		White Oak Tulip Poplar	Quercus alba Liriodendron tulipifera	28 17	Rare Specimen																													
229 230 231	QUAL QUAL LITU	White Oak White Oak Tulip Poplar	Quercus alba Quercus alba Liriodendron tulipifera	15 22 23	Specimen Specimen Specimen																													
232 233	QUAL CARYA	White Oak Hickory	Quercus alba Carya species	17 12	Specimen Specimen																													
234 235	QUAL CATO	White Oak Mockernut Hickory	Quercus alba Carya tomentosa	22 17	Specimen Specimen																													
236 237	QUAL	White Oak Sw eetgum	Quercus alba Liquidambar styraciflua	17 13	Specimen Specimen																													
238 239 240		Tulip Poplar Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera	12 20 22	Specimen Specimen																													
240 241 242		Tulip Poplar Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera Liriodendron tulipifera	22 21 15	Specimen Specimen Specimen																													
242 243 244		Tulip Poplar Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera	13 12 18	Specimen Specimen																													
245 246		Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera	15 42	Specimen Rare																													
247 248	LITU QUAL	Tulip Poplar White Oak	Liriodendron tulipifera Quercus alba	37 20	Rare Specimen																													
249 250		Tulip Poplar Northern Red Oak	Liriodendron tulipifera Quercus rubra		Rare Specimen																													
251 252 253	CATO ACRU QUAL	Mockernut Hickory Red Maple White Oak	Carya tomentosa Acer rubrum Quercus alba	12 12 21	Specimen Specimen Specimen																													
253 254 255	QUAL	White Oak Sw eetgum	Quercus alba Quercus alba Liquidambar styraciflua	21 21 12	Specimen Specimen Specimen																													
256 257	QUAL CATO	White Oak Mockernut Hickory	Quercus alba Carya tomentosa	22 13	Specimen Specimen																													
258 259	QUAL LITU	White Oak Tulip Poplar	Quercus alba Liriodendron tulipifera	16 15	Specimen Specimen																													
260 261	CATO CATO	Mockernut Hickory Mockernut Hickory	Carya tomentosa Carya tomentosa	12 14	Specimen Specimen																													
262 263 264	LIST LIST CATO	Sw eetgum Sw eetgum Mockernut Hickory	Liquidambar styraciflua Liquidambar styraciflua Carya tomentosa	24 15 15	Rare Specimen Specimen																													
264 		White Oak Sw eetgum	Quereus alba Liquidambar styraciflua	24 15	Rare Specimen																													
267 268		Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera	18 18	Specimen Specimen																													
269 270	LITU CAGL	Tulip Poplar Pignut Hickory	Liriodendron tulipifera Carya glabra	24 19	Rare Specimen																													
271 272	LIST LIST	Sw eetgum Sw eetgum	Liquidambar styraciflua Liquidambar styraciflua	15 14	Specimen Specimen																													
273 274	FRAX LIST	Ash Sweetgum	Fraxinus species Liquidambar styraciflua	17 18	Specimen Specimen																													
275 276 	CATO FRAX	Mockernut Hickory Ash Tulip Poplar	Carya tomentosa Fraxinus species Liriodendron tulipifera	12 18 26	Specimen Specimen Rare																													
278 279	LITU NYSY	Tulip Poplar Blackgum	Liriodendron tulipifera Nyssa sylvatica	22 18	Specimen Specimen																													
280 281	QUAL QUAL	White Oak White Oak	Quercus alba Quercus alba	22 21	Specimen Specimen																													
282 	QUAL QUAL QUAL	White Oak White Oak	Quercus alba Quercus alba Quercus alba	21 26	Specimen Rare																													
285 285 286	LITU	White Oak Tulip Poplar Sw eetgum	Liriodendron tulipifera	25 15 29	Rare Specimen Rare																													
287 288		Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera	12 20	Specimen Specimen																													
289 290	QUAL QUAL	White Oak White Oak	Quercus alba Quercus alba	15 21	Specimen Specimen																													
291 292	QUAL	Sw eetgum White Oak	Liquidambar styraciflua Quercus alba	15 18	Specimen Specimen																													
293 294 295	QUVE QUFA QUAL	Black Oak Southern Red Oak White Oak	Quercus velutina Quercus falcata Quercus alba	19 16 17	Specimen Specimen Specimen																													
296 297		Tulip Poplar Tulip Poplar	Liriodendron tulipifera	16 19	Specimen Specimen																													
298 299	QURU LITU	Northern Red Oak Tulip Poplar	Quercus rubra Liriodendron tulipifera	20 19	Specimen Specimen	. <u>.</u>																												
- 300 - 301		Tulip Poplar Northern Red Oak	Liriodendron tulipifera Quercus rubra	25 31	Rare Rare																													
302 303	QUAL LIST	White Oak Sw eetgum	Quercus alba Liquidambar styraciflua	14 13	Specimen Specimen																													
304 	QUAL LITU QUAL	White Oak Tulip Poplar White Oak	Quercus alba Liriodendron tulipifera Quercus alba	15 <u>-24</u> 14	Specimen Rare Specimen																													
306 307 308		VVhite Oak Black Oak Tulip Poplar	Quercus alba Quercus velutina Liriodendron tulipifera	14 15 28	Specimen Specimen Rare																													
309 310	LIST	Sw eetgum Tulip Poplar	Linodendron tulpiera Liquidambar styraciflua Liriodendron tulipifera	12 23	Specimen Specimen																													
311 312	LIP	Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera	19 20	Specimen Specimen																													
313	LITU LIST	Tulip Poplar Sw eetgum	Liriodendron tulipifera Liquidambar styraciflua	24 17	Rare Specimen																													
314		Tulip Poplar	Liriodendron tulipifera	22 11	Specimen NA																													
315 316	LITU NYSY	Blackgum White Oak	Nyssa sylvatica Quercus alba																															
315	LITU	White Oak Tulip Poplar	Nyssa sylvatica Quercus alba Liriodendron tulipifera Quercus velutina	15 21 16	Specimen Specimen																													
315 316 317 318	LITU NYSY QUAL LITU	White Oak	Quercus alba Liriodendron tulipifera	15 21	Specimen																													
315 316 317 318 319 320 321 322 323	LITU NYSY QUAL LITU QUVE ACRU QUAL QUAL QUVE	White Oak Tulip Poplar Black Oak Red Maple White Oak White Oak Black Oak	Quercus alba Liriodendron tulipifera Quercus velutina Acer rubrum Quercus alba Quercus alba Quercus velutina	15 21 16 24 16 18 23	Specimen Specimen Rare Specimen Specimen Specimen Specimen																													
315 316 317 318 319 320 321 322 323 324 325	LITU NYSY QUAL LITU QUVE ACRU QUAL QUAL QUAL QUVE LITU PITA	White Oak Tulip Poplar Black Oak Red Maple White Oak White Oak Black Oak Tulip Poplar Loblolly Pine	Quercus alba Liriodendron tulipifera Quercus velutina Acer rubrum Quercus alba Quercus alba Quercus velutina Liriodendron tulipifera Pinus taeda	15 21 16 24 16 18 23 19 18	Specimen Specimen Rare Specimen Specimen Specimen Specimen Specimen																													
315 316 317 318 319 320 321 322 323 324 325 326 327	LITU NYSY QUAL LITU QUVE QUAL QUAL QUAL LITU PTTA QUAL LITU	White Oak Tulip Poplar Black Oak Red Maple White Oak Black Oak Black Oak Tulip Poplar Lobbolly Pine White Oak Tulip Poplar	Quercus alba Liriodendron tulipifera Quercus velutina Quercus alba Quercus alba Quercus alba Quercus velutina Liriodendron tulipifera Pinus taeda Quercus alba Liriodendron tulipifera	15 21 16 24 16 18 23 19 18 12 20	Specimen Specimen Rare Specimen Specimen Specimen Specimen Specimen Specimen																													
315 316 317 318 319 320 321 322 323 324 325 326	LITU NYSY QUAL LITU QUVE AGRU QUAL QUAL QUVE LITU PITA QUAL	White Oak Tulip Poplar Black Oak Red Maple White Oak White Oak Black Oak Tulip Poplar Loblolly Pine White Oak	Quercus alba Liriodendron tulipifera Quercus velutina Acer rubrum Quercus alba Quercus alba Quercus velutina Liriodendron tulipifera Pinus taeda Quercus alba	15 21 16 24 16 18 23 19 18 12	Specimen Specimen Rare Specimen Specimen Specimen Specimen Specimen Specimen																													
315 316 317 318 319 320 321 322 323 324 325 326 327 328 329	LITU NYSY QUAL LITU QUVE ACRU QUAL QUAL LITU PTTA QUAL LITU QUAL LITU	White Oak Tulip Poplar Black Oak Red Maple White Oak White Oak Black Oak Tulip Poplar Loblolly Rne White Oak Tulip Poplar White Oak Tulip Poplar	Quercus alba Liriodendron tulipifera Quercus velutina Acer rubrum Quercus alba Quercus alba Quercus alba Liriodendron tulipifera Quercus alba Liriodendron tulipifera Quercus alba Liriodendron tulipifera	15 21 16 24 16 18 23 19 18 12 20 25 25	Specimen Specimen Specimen Specimen Specimen Specimen Specimen Specimen Specimen Specimen Specimen																													
315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331	LITU NYSY QUAL LITU QUVE QUAL QUVE LITU HTA QUAL LITU CARYA LITU QUAL QUAL QUAL	White Oak Tulip Poplar Black Oak Red Maple White Oak Black Oak Tulip Poplar Lobbolly Pine White Oak Tulip Poplar Uhite Oak Tulip Poplar Hickory Tulip Poplar	Quercus alba Liriodendron tulipifera Quercus velutina Acer rubrum Quercus alba Quercus velutina Liriodendron tulipifera Pinus taeda Quercus alba Liriodendron tulipifera Quercus alba Liriodendron tulipifera Quercus alba Liriodendron tulipifera Carya species Liriodendron tulipifera	15 21 16 24 16 18 23 19 18 20 25 25 14 17 22 14	Specimen Specimen Rare Specimen																													
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lickory	Carya species	13	Specimen	
White Oak Tulip Poplar	Quercus alba Liriodendron tulipifera	15 13	Specimen Specimen	
rulip Poplar Fulip Poplar	Liriodendron tulipifera	35	Rare	
Tulip Poplar	Liriodendron tulipifera	20	Specimen	
Tulip Poplar	Liriodendron tulipifera	15	Specimen	
Tulip Poplar	Liriodendron tulipifera	13	Specimen	
Tulip Poplar	Liriodendron tulipifera	19	Specimen	
White Oak	Quercus alba	15	Specimen	
White Oak	Quercus alba	20	Specimen	
White Oak Fulip Poplar	Quercus alba Liriodendron tulipifera	18 23	Specimen Specimen	
Tulip Poplar	Liriodendron tulipifera	15	Specimen	
ignut Hickory	Carya glabra	12	Specimen	
Sassafrass	Sassafras albidum	8	Specimen	
White Oak	Quercus alba	12	Specimen	
Tulip Poplar	Liriodendron tulipifera	21	Specimen	
Sassafrass	Sassafras albidum	11	Specimen	
Blackjack Oak	Quercus marilandica	16	Specimen	
White Oak Sassafrass	Quercus alba Sassafras albidum	16 11	Specimen Specimen	
White Oak	Quercus alba	43	Rare	
Tulip Poplar	Liriodendron tulipifera	15	Specimen	
īulip Poplar	Liriodendron tulipifera	13	Specimen	
Tulip Poplar	Liriodendron tulipifera	19	Specimen	
Tulip Poplar	Liriodendron tulipifera	23	Specimen	
Black Oak	Quercus velutina	20	Specimen	
vorthern Red Oak	Quercus rubra Liriodendron tulipifera	28 25	Rare Rare	
fulip Poplar	Liriodendron tulipifera	13	Specimen	
Aockernut Hickory	Carya tomentosa	13	Specimen	
Fulip Poplar	Liriodendron tulipifera	- 29	Rare	
Tulip Poplar	Liriodendron tulipifera	16	Specimen	
Sweetgum	Liquidambar styraciflua	13	Specimen	
Sweetgum	Liquidambar styraciflua	15	Specimen	
Fulip Poplar	Liriodendron tulipifera	21	Specimen	
Fulip Poplar	Liriodendron tulipifera	18	Specimen	
Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera	23 18	Specimen Specimen	
Fulip Poplar	Liriodendron tulipifera	34	Rare	
Tulip Poplar	Liriodendron tulipifera	18	Specimen	
Fulip Poplar	Liriodendron tulipifera	28	Rare	
Tulip Poplar	Liriodendron tulipifera	20	Specimen	
Tulip Poplar	Liriodendron tulipifera	19	Specimen	
White Oak	Quercus alba	19	Specimen	
White Oak	Quercus alba	12	Specimen	
White Oak Fulip Poplar	Quercus alba Liriodendron tulipifera	13 17	Specimen Specimen	
Tulip Poplar	Liriodendron tulipifera	23	Specimen	
White Oak	Quercus alba	13	Specimen	
Tulip Poplar	Liriodendron tulipifera	26	Rare	
Tulip Poplar	Liriodendron tulipifera	17	Specimen	
Sweetgum	Liquidambar styraciflua	16	Specimen	
Tulip Poplar	Liriodendron tulipifera	21	Specimen	
Tulip Poplar	Liriodendron tulipifera	19	Specimen	
Sw eetgum	Liquidambar styraciflua	12 16	Specimen Specimen	
Tulip Poplar Tulip Poplar	Liriodendron tulipifera Liriodendron tulipifera	21	Specimen	
White Oak	Quercus alba	-28	Rare	
Tulip Poplar	Liriodendron tulipifera	16	Specimen	
White Oak	Quercus alba	14	Specimen	
Sweetgum	Liquidambar styraciflua	12	Specimen	10 (6,4)
Sweetgum	Liquidambar styraciflua	12	Specimen	12 (4,8)
White Oak	Quercus alba	19	Specimen	12 (6,6)
White Oak White Oak	Quercus alba Quercus alba	14 24	Specimen Rare	12 (8,4) 13 (4,4,5)
White Oak	Quercus alba	25	Rare	15 (4,4,5)
Sourw ood	Oxydendron arboreum	13	Specimen	17 (13,4)
White Oak	Quercus alba	22	Specimen	18 (12,6)
Tulip Poplar	Liriodendron tulipifera	22	Specimen	19 (11,8)
Tulip Poplar	Liriodendron tulipifera	21	Specimen	20 (9,11)
Tulip Poplar	Liriodendron tulipifera	25	Rare	21 (10,10)
Black Oak Mhite Oak	Quercus velutina Quercus alba	22 	Specimen Rare	22 (12,10) 22 (12,10)
Fulip Poplar	Liriodendron tulipifera	42	Rare	22 (12,10) 22 (16,6)
Agnut Hickory	Carya glabra	15	Specimen	22 (9,13)
orthern Red Oak	Quercus rubra	23	Specimen	23 (9,14)
Sweetgum	Liquidambar styraciflua	13	Specimen	24 (12,12)
Tulip Poplar	Liriodendron tulipifera	12	Specimen	24 (12,12)
oblolly Pine	Pinus taeda	15	NA	25 (12,13)
Sourwood Aockernut Hickory	Oxydendron arboreum Carya tomentosa	10 19	Specimen Specimen	26 (13,13) 26 (20,6)
Nockernut Hickory	Quercus alba	- 19 29	Specimen Rare	26 (20,6) 27 (14,13)
Sweetgum	Liquidambar styraciflua	14	Specimen	28 (13,8,7)
Sweetgum	Liquidambar styraciflua	13	Specimen	28 (14,14)
Aockernut Hickory	Carya tomentosa	23	Specimen	29 (17,12)
Sweetgum	Liquidambar styraciflua	12	Specimen	32 (24,8)
Sweetgum	Liquidambar styraciflua	12	Specimen	32 (8,12,12)
Sw eetgum	Liquidambar styraciflua	13	Specimen	34 (28,6)
White Oak .oblolly Pine	Quercus alba Pinus taeda	12 16	Specimen NA	36 (18,18) 36 (18,18)
White Oak	Quercus alba	22	Specimen	42 (21,21)
White Oak	Quercus alba	22	Specimen	42 (21,21)
Tulip Poplar	Liriodendron tulipifera	23	Specimen	44 (10,34)
Southern Red Oak	Quercus falcata	21	Specimen	45 (11,12,22)
White Oak	Quercus alba	13	Specimen	45 (8,18,10,9)
Aockernut Hickory	Carya tomentosa	19	Specimen	46 (8,8,10,11,9)
<i>l</i> lockernut Hickory White Oak	Carya tomentosa	17 18	Specimen	52 (26,26) 59 (22 13 24)
Mockernut Hickory	Quercus alba Carya tomentosa	16	Specimen Specimen	59 (22,13,24) 70 (17,22,31)
· · · · · · · · · · · · · · · · · · ·	,			
White Oak	Quercus alba	12	Specimen	8 (4,4)

INT WEST MAIN ST. DURHAM, NC 27701 T 919.380.8750
Client: GS HOMESTEAD, LLC 121 S. ESTES DRIVE, SUITE 100 CHAPEL HILL, NC 27514 PHONE: 919.489.9000 EMAIL: RICHARD@GURLITZARCHITECTS.COM
Vicinity map:
NORTH Seal: PRELIMINARY - DO NOT USE FOR CONSTRUCTION NDSCA 1192 1192 NORTH Scale:
Project: HOMESTEAD ROAD TOWNHOMES
Issued ion CONDITIONAL ZONING PERMIT No. Date Description 1 8/26/2022 1ST RESUBMITTAL 2 10/07/2022 2ND RESUBMITTAL 3 02/13/2023 3RD RESUBMITTAL
LANDSCAPE PROTECTION PLAN - TREE SURVEY Project number: C22033 Sheet #: Issued Date: 06.24.2022 Drawn by: SM Approved by: CH

LEGEND:

------ RARE TREE REMOVED



		 ROOTBALL ½ - ⅓ ABOVE GRADE ACCORDING TO SPECIES AND DRAINAGE. CONSULT LANDSCAPE ARCHITECT. 4" HIGH X 8" WIDE ROUND - TOPPED SOIL BERM ABOVE ROOT BALL SURFACE SHALL BE CONSTRUCTED AROUND THE ROOT BALL. BERM SHALL BEGIN AT ROOT BALL PERIPHERY. PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE SHRUB. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL. SCARIFIED SOIL. 	<image/> <section-header><text><text><text><text><text><text><text></text></text></text></text></text></text></text></section-header>
2x ROOTBALL DIAMETER		 BOTTOM OF ROOT BALL RESTS ON EXISTING OR RECOMPACTED SOIL. 	
<u>I-SITU SOIL</u>		FOR EACH TREE PIT TO CONFIRM THAT	Isued for: CONDITIONAL ZONING PERMIT
ED BY LANDSCAPE S PLANTED ON SLOPES. OSE TOGETHER SUCH ILL IN SOIL NTIRE AREA. OR SMALL HAND TOOLS R OF POTTING SOIL; IG THE PERIMETER OF AND WIRE BASKET O ADJACENT PREPARED H AFTER PLANTING AND VO SUMMERS. DUOUS AND EVERGREEN REE IN THE NURSERY THE SURFACE, SLOPING H OF THE ROOT BALL. TED LEAVES, RECYCLED ITO TOP 6" OF VOLUME TO BACKFILL.	 WATER DRAINS OUT OF THE SC FABRIC & VENT PIPE IF DRAINAG INCLUDE ALL SUMPS IN BASE BI AFTER PERCOLATION TEST, PR OWNER. 11. IF PLANTING HOLES ARE DUG W THE SIDES WITH A SHOVEL CAN PREFERRED SLOPING SIDE. 	OIL. PROVIDE GRAVEL SUMP FILTER GE DOES NOT OCCUR WITHIN 24 HOURS. ID. SHOULD SUMPS NOT BE NECESSARY OVIDE CHANGE ORDER DEDUCT TO //ITH A LARGE AUGER BREAKING DOWN I ELIMINATE GLAZING AND CREATE THE ADERS. TREES WITH 2 LEADERS WILL BE ACT WITH TRUNK.	No. Date Description 1 8/26/2022 1ST RESUBMITTAL 2 10/07/2022 2ND RESUBMITTAL 3 02/13/2023 3RD RESUBMITTAL Title: Project number: C22033 Sheet #: Issued Date: 06.24.2022 Drawn by: SM Approved by: CH L7.900

Homestead Road Tri Pointe WRITTEN NARRATIVE

(REV. August 26, 2022)

Goals and Objectives:

The program for the project is to develop 108 townhomes complementary to the nearby communities along Homestead Road and consistent with the 2020 Comprehensive Plan as well as the FLUM.

Natural Features of the Site

The geometry of the site is rectangular and bounded on the North face by Homestead Rd, on the East & South faces by the Carolina North Forest and on the West by a newer cottage style retirement community. The site generally slopes gently from the southeast corner to the northwest corner.

Circulation and Mitigation of Traffic impacts

Following both the geometry of the site and the topography, the townhomes are laid out following the northeast and northwest facing boundaries and the resulting roads. There is internal circulation on the site as well as fire access from both Kipling Lane as well as Homestead Road. The Kipling Lane access point additionally provides a second means of access for the neighboring development. The main road connects to the adjacent, previously stubbed out Kipling Lane of the bordering Western property. Bus service is available along Homestead road for some mitigation of traffic impacts. Homestead road has been designed for an additional center lane. This property has already dedicated additional right-of-way to accommodate that improvement. Discussions with DOT have indicated that main access road will be located to provide sufficient storage space on Homestead for turning vehicles in the center lane.

Arrangement and Orientation of Buildings

The buildings are arranged in clusters surrounding preserved open spaces with existing hardwood forest. The rectilinear orientation allows for many of the homes to face the wooded areas. The townhomes are arranged in clusters of primarily four units with a few six unit clusters. The lots are generally 110 feet deep. The orientation of the lots and their depth allow for some privacy mitigation on backyard to backyard conditions. The units in the center core of the site will respond to an open common area between the units with a sidewalk and connection to recreation facilities on site.

Natural Vegetation and Landscape

Large areas of natural vegetation are intended to be preserved among the townhome clusters. The site is very flat and minimal grading will be required to achieve the building pads at grade. This allows larger areas of existing wooded areas to be preserved. The landscaping included will consist of street trees as required along the major public roadways, and landscaped buffers where required along the neighboring properties.

Impact on Neighboring Properties

The property is surrounded on three sides with permanent open space as dedicated parkland on the south and east, and Homestead Road on the north. The immediate western neighborhood is a development at 3.5 units per acre. The impact of this property on that neighborhood will be the completion of its required fire access road. The properties being developed across Homestead Road from this property is a townhome community with similar density. It is also anticipated that development of this parcel will help alleviate a stormwater flow problem that currently exists on the neighboring properties.

Erosion, Sedimentation and Stormwater

Erosion and sedimentation will only be a factor during the construction phase of the development. During that phase, all applicable Orange County erosion control measures will be undertaken as part of the approval and inspection process.

Stormwater management will consist of routing water from the impervious surfaces of roof and roadway to collection and conveyances leading to a detention pond facility on site. Currently heavy rains from this site naturally drain to the neighboring property. Development of this property should have the effect of channeling much of the migrating flow from crossing the property line to being channeled to the stormwater management devices thus improving the flow conditions naturally occurring during heavy rain events.

The stream determination performed by the Town indicated that there was an ephemeral stream near the south east boundary of the property, but that there were no streams at all on the property. See Attachment 9 provided with the submittal.

Additionally, the property is not within the Jordan lake Watershed Protection District.

Access to the Courtyards

The developer, planning department, fire chief and the neighbors have met on several occasions to discuss the access connection at Kipling Drive to this development. The result, which is indicated on the submission, includes a pedestrian and bike connection between the two projects with signage that states "for Emergency Vehicles Only". The right of way will be 45' similar to the other right of ways throughout the development. The paved surface, however, will be narrowed to the minimum required for emergency vehicle access.

Building Facades

The building facades are staggered with varying depths and roof configurations to eliminate the "wall" effect that may be inferred from simply viewing the lot lines on the site plan documents. See attached rendering of proposed units for varying image.



Rendered Elevations for Proposed 2217 Homestead Road Townhomes

STATEMENT OF JUSTIFICATION AND COMPLIANCE WITH THE COMPREHENSIVE PLAN

Revised August 26, 2022

Compliance with the Comprehensive Plan

The sections of the 2020 Comprehensive Plan that are particularly applicable to this project focus on the need in the community to provide a variety of housing types- Big Idea number 4. We believe that providing both the units for affordable housing as a component of this development, as well as the development as-a-whole providing a townhouse community, meets the expectations and accomplishes the goals of the 2020 Comprehensive Plan as well as the Future Land Use Map for 2050. This project responds to the Themes and Goals in Chapter 3 of the Comprehensive Plan as follows:

THEMES

1. A Place for Everyone -

The need for affordable housing is clear in the first theme. This project provides for both mid-range housing in the townhomes as well as the affordable housing indicated in the LUMO. The townhome development is in concert with the Future Land Use Map and provides an alternate housing type to the predominant single family detached home or rental apartment in Chapel Hill. It is also anticipated that these townhomes will be a bridge in cost between single family and apartments. A mid-range.

2. Community Prosperity and Engagement

A key element in prosperity and engagement, the second theme, is "sustaining healthy neighborhoods". This project provides new housing in a locus of existing R-5 neighborhoods, expanding the same fabric of that neighborhood. We anticipate that this neighborhood will be very cohesive and have the amenities of the University property as parkland adjacent. Community and gathering spaces are provided on-site as part of the recreation element that should contribute to a "healthy" neighborhood character.

3. Getting Around

Key in the Getting Around theme is linking neighborhoods to thriving greenways, sidewalks, bicycle amenities and other options. The proximity of this project to the existing Carolina North Forest greenway & trails, and the anticipated payment in lieu providing support for the continued operation of the nearby Homestead Park and the Carolina North Forest's greenway and bicycle friendly neighboring property indicates the contribution this project will make to keeping Chapel Hill greenway and park facilities thriving. Additionally, this project will construct several hundred feet of multi-use trail along Homestead Road.

STATEMENT OF JUSTIFICATION AND COMPLIANCE WITH THE COMPREHENSIVE PLAN

Revised August 26, 2022

4. Good Places New Spaces

This theme talks about "balancing respect for the old with the prospect of the new". This development as a continuation of the existing density and housing type of its neighbors, respects its neighborhood, but will provide an updated and newer version of this housing type.

5. Nurturing Our Community

Environmental Sustainability and aspects of people's interaction with the natural habitat from parks and open spaces are the focus of this theme. With the existing wooded areas of UNC surrounding it to remain, there is great opportunity for the residents to interact with the immediate natural habitat. The proximity of Homestead Park, The Senior Center Southern Human Services Center and the Carolina North Forest, greenway and trails abutting the property, virtually insures that the residents will have the ability to take advantage of the Town and County park facilities. The saved natural treed areas within the site further enhance the interaction with the natural habitat.

6. Town and Gown Collaboration

While there is no direct linkage between this project and the University, there is every likelihood that a significant number of the residents will in some way be associated with UNC. Providing housing for primarily UNC employees will be a major impact of this project on the Town and Gown relationship. It is not anticipated nor is it a goal of the developers that this project will provide student housing.

GOALS

PFE.1 – Family Friendly, accessible exterior and interior places throughout the town for a variety of active uses.

This townhome project of primarily three bedroom for-sale properties is certainly aimed at being family friendly. The site is additionally accessible both in terms of being ADA compliant as well as providing comfortable and inviting outdoor common areas and gathering spaces.

PFE.2 – A creative place to live, work, and play because of Chapel Hill's arts and culture.

The site is located within walking proximity to Homestead Park, Chapel Hill North trails, the Southern Orange Senior Center and the Chapel Hill Aquatics Center. All of which offer opportunities to engage in some of Chapel Hill's cultural and recreational activities.

STATEMENT OF JUSTIFICATION AND COMPLIANCE WITH THE COMPREHENSIVE PLAN

Revised August 26, 2022

PFE.3 – A range of housing options for current and future residents.

Homestead Road townhomes is providing a mid-range housing type that is currently underrepresented in the Chapel Hill market. It expands the range of options for current and future residents.

PFE.4 – A welcoming and friendly community that provides all people with access to opportunities

Of the 108 townhomes in the community, 16 will be reserved as affordable housing to serve Chapel Hill residents at 65% and 80% of AMI creating home ownership opportunity for a wider range of Chapel Hill residents.

PFE.5 – A community of high civic engagement and participation.

As a housing community, the Homeowners Association created by this development, will provide a vehicle for the members of the community to voice their opinions and engage in civic activities.

FLUM Compliance

The 2050 Future Land Use Map, (FLUM) South MLK Boulevard Focus Area indicates that this site has a primary use as multi-family, as Sub Area A., with townhomes as the recommended housing type. Page 44 of the December 2020 FLUM charts sub area A for Character Types and Height in 2050: South MLK Boulevard.

In recent conversations with Brian Peterson in the Town Manager's office, the preference for providing housing in Chapel Hill that addresses the "Missing Middle" has been addressed. Chapel Hill has a substantial inventory of single family homes. It also has recently developed a significant inventory of Apartments. Townhomes represent a form of "missing middle" housing types. Although there are certainly other townhome communities in Chapel Hill, they are under-represented overall. This project will help address that shortage. We also believe that the term "missing middle" applies to both the cost aspect of the homes as well as the building type.

STATEMENT OF JUSTIFICATION AND COMPLIANCE WITH THE COMPREHENSIVE PLAN

Revised August 26, 2022

Climate Action and Response Plan

This project will work with the Town's stated goals of affecting climate change by providing full electric services to the new homes. Within the framework of the current construction the following are provided:

Watersense Faucets and Fixtures – 1.5 gpm or 30% reduction from standard fixtures Tankless water heaters – 8% -14% more energy efficient than standard Energy Star Dishwashers – 12% more energy efficient and 30% more water efficient Toilets – 1.28gpf – 20% less water than current federal standard EV outlet in garage – Available Rough in for optional solar panels included Whole House LED lighting standard Whole House energy management system included Low E glazing standard Techshield Radiant Barrier Roof Sheathing included LOW VOC Paints standard Programmable W—Fi thermostats standard Merv 13 Air Filters Duke Energy Hero Plan

Central West Small Area Plan

The major elements of the Central West Small Area Plan are focused on predominantly community and municipal actions that will lead to the development of successful town infrastructure. A few of the Principles, however, do pertain to the townhome development on Homestead Road.

Principle 3 – Create Social Connections: B; Include a variety of public spaces for all ages at a variety of scales with trees/vegetation, shade and places for sitting, and D; provide pedestrian and bicycle connections that encourage interpersonal connections to public gathering places throughout the area.

Principle 4 – Improve Physical Connections: The townhome project satisfies Objectives B, C, E and G providing linking pathways, bicycle connectivity, street and trails.

Principle 6 – Enhance the Pedestrian/Bicycle experience. The 10 foot wide multi-use trail that this project constructs along Homestead Road will be a link in developing this principle.

Principle 9 – A Diverse Population. The 16 affordable units in this development will contribute to providing opportunity for a more diverse economic population.

STATEMENT OF JUSTIFICATION AND COMPLIANCE WITH THE COMPREHENSIVE PLAN

Revised August 26, 2022

Principle 10 – Respect Existing Neighborhoods – This project is working with the neighboring communities to both connection at the emergency vehicle and pedestrian level and provide privacy in the proximity of housing.

Principle 11: - Employ Environmentally Sound Practices - Most applicable components of this Principle are being employed in this project. It is capturing site run-off, maintaining tree cover, promoting gree building and construction standards, burying utility and power lines, utilizing native and non-invasive plant species.

Principle 12 – Feature, Repair, and Enhance Natural Resources – This project provides open space amenities, best management practices for stormwater, and preserves natural features.

Mobility and Connectivity Plan Chapel Hill Bike Plan

The Mobility and Connectivity Plan as well as the Chapel Hill Bike Plan primarily address improvements made in the public right of way. The contribution to this plan that this townhome project includes is the ten foot multi-use pathway along Homestead Road. This feature provides a wide surface to accommodate both pedestrian as well as bicycle traffic and provides a missing link between the portion completed in front of the Courtyards development, and the continuation of the trail on the eastern portion of the site. Bike parking facilities on site adjacent to guest parking and the recreation and gathering facilities, should encourage bike use within the neighborhood.

2217 HOMESTEAD TOWNHOMES

RESIDENTIAL DEVELOPMENT

DRAFT TRANSPORTATION IMPACT ANALYSIS

EXECUTIVE SUMMARY



Prepared for:

The Town of Chapel Hill Public Works Department - Engineering

Prepared by:

HNTB North Carolina, PC

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NCBELS License #: C-1554

September 2022



2217 HOMESTEAD TOWNHOMES RESIDENTIAL DEVELOPMENT

DRAFT TRANSPORTATION IMPACT ANALYSIS

EXECUTIVE SUMMARY



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September 2022



EXECUTIVE SUMMARY - DRAFT

Project Overview

A new residential community, known as 2217 Homestead Townhomes, is being proposed in Chapel Hill along Homestead Road near the Weaver Dairy Road Extension. **Figure ES-1** shows the general location of the site. The project proposes to construct 103 individual residential townhome/condominium units and is anticipated to be fully complete and occupied by 2025. This report analyzes the full build-out scenario for 2217 Homestead Townhomes for the year 2026 (one year after anticipated completion), the no-build scenario for 2026, as well as 2022 existing year traffic conditions for typical weekday AM, noon, and PM peak hours.

The current proposed site plan shows a provision for a full movement access driveway serving the site that connects to Homestead Road and a secondary access point to Kipling Lane in the Courtyards at Homestead Road subdivision. No other external roadway vehicular access connections are proposed. **Figure ES- 2** displays the overall site plan and nearby land uses and roadways. The 2217 Homestead Townhomes site is expected to provide individual vehicle parking spaces located on individual driveways as part of each condominium lot – with potential on-street parking allowed in areas where curb space permits. This report analyzes and presents the transportation impacts that the 2217 Homestead Townhomes project will have on the following intersections in the project study area:

- Homestead Road and Seawell School Road
- Homestead Road and Greenway Landing / Future Bridgepoint Access Driveway
- Homestead Road and Weaver Dairy Road Extension
- Homestead Road and NC 86 (Martin Luther King, Jr. Boulevard)
- Homestead Road and Proposed Site Driveway

Existing Conditions

Study Area

The site is located in north Chapel Hill along Homestead Road just west of the Weaver Dairy Road Extension. The study area contains three signalized intersections along Homestead Road at NC 86 (Martin Luther King, Jr. Boulevard), Weaver Dairy Road Extension and Seawell School Road. NC 86 (Martin Luther King, Jr. Boulevard) is a major north-south arterial providing connectivity between downtown Chapel Hill, north and south Chapel Hill, the I-40 corridor and Hillsborough. Homestead Road is a minor east-west arterial providing connectivity through northern Chapel Hill. Remaining study area network roadways are either suburban collector streets or local neighborhood/commercial access streets.

Site Traffic Generation

With the addition of new trips during the weekday AM, noon, and PM peak hours, there are potential site traffic impacts to study area intersections. **Table ES-1** shows the site trip generation details, with rates taken from the Institute of Transportation Engineers (ITE) *Trip Generation Manual, Version 10.*

Background Traffic

Background traffic growth for the 2026 analysis years is expected to come from two sources - ambient regional traffic growth and specific development-related traffic growth. Five Town-approved sites near the project study area were considered for specific development related growth. All remaining estimated traffic volume increases are assumed to occur due to overall region-wide ambient growth (assumed 0.5 percent per year) based on NCDOT/Town historic growth data and taking into consideration the on-going rebound to pre-COVID traffic levels caused by the pandemic.





2217 Homestead Townhomes - Proposed Residential Development

Description	Density		Daily		AM Peak		Noon Peak*			PM Peak			
Description	Density	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total
Condominiums – Low-Rise	103 Units	369	369	738	11	38	49	25	31	56	38	23	61

* - No Noon Peak ITE Data Available – Used Average of AM and PM Peak Data

Impact Analysis

Peak Hour Intersection Level of Service

Existing traffic operations at all study area intersections are acceptable during all three peak hours analyzed. The projected ambient and background development traffic growth will increase impacts by 2026. Even with the addition of peak hour site-generated trips to the projected 2026 background traffic volumes, no study area intersection is expected to experience deficient traffic operations in any peak hour and projected maximum queues at all locations are not expected to be excessive. No additional mitigation improvements to any intersection were considered necessary. A summary of the traffic operations for each intersection, related to vehicular delays (intersection average as a whole if signalized, critical movement if stop-controlled) and the corresponding traffic simulation Level-of-Service (LOS_S) is shown in **Table ES-2**.

Intersections	Peak Hour	2022 Existing		2026 No-Build		2026 Build		2026 Mitigated	
	nou	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
Llamastand Dand 8	AM	С	21.2	С	22.1	С	22.0	N/A	N/A
Homestead Road & Seawell School Road	NOON	В	12.5	В	12.5	В	12.1	N/A	N/A
	PM	В	13.9	В	14.2	В	14.1	N/A	N/A
Homestead Road &	AM	А	7.6	С	15.5	С	15.9	N/A	N/A
Greenway Landing /	NOON	А	6.2	А	8.0	А	8.0	N/A	N/A
Future Bridgepoint Site Driveway#	PM	А	7.1	С	17.0	С	18.6	N/A	N/A
Llamastand David 8	AM	В	14.4	В	14.0	В	13.9	N/A	N/A
Homestead Road & Weaver Dairy Road Extension	NOON	В	14.0	В	13.4	В	12.9	N/A	N/A
	PM	В	18.7	В	19.0	В	18.8	N/A	N/A
Liamastand Dand & NC 00	AM	В	19.1	С	20.1	С	20.7	N/A	N/A
Homestead Road & NC 86 (Martin Luther King, Jr. Boulevard)	NOON	С	20.1	С	21.8	С	22.1	N/A	N/A
	PM	В	17.4	В	19.3	С	20.1	N/A	N/A
Llamastand David 8	AM	N/A	N/A	N/A	N/A	А	9.5	N/A	N/A
Homestead Road & Proposed Site Driveway [#]	NOON	N/A	N/A	N/A	N/A	А	5.4	N/A	N/A
	PM	N/A	N/A	N/A	N/A	А	6.8	N/A	N/A

Table ES-2. Peak Hour Intersection Capacity Analysis Summary

N/A – Not Applicable or No Improvements Necessary

- Worst-Case LOS/Delay for Unsignalized/Stop-Controlled Critical Movement

Access Analysis

Vehicular site access to the project is to be accommodated at a proposed full movement driveway access connecting to Homestead Road about 400 feet to the west of the Weaver Dairy Road Extension intersection with the Homestead Road. The proposed driveway has single inbound and outbound lanes.





A second internal local street access connection is also proposed to link with existing Kipling Lane within the Courtyards at Homestead subdivision. Driveway throat lengths, and intersection/driveway separation minimum criteria, as set forth in the 2003 *NCDOT Policy on Street and Driveway Access to North Carolina Highways* and the 2017 Town of Chapel Hill Design Manual are generally acceptable for the current site concept plans for the project.

Access for pedestrians is adequate in the project study area and will be improved with the construction of the Town's Homestead Road Improvements project. Crosswalk exists across the NC 86, Seawell School Road, and Weaver Dairy Extension intersections with some connectivity along Homestead Road. No specific bicycle amenities are present along Homestead Road, but bicycle lanes are present on the Weaver Dairy Road Extension and along NC 86 north of Homestead Road. Additional bicycle lanes/off-road paved paths along Homestead Road will be provided and provided the needed connectivity upon the completion of the Town's improvement project.

Signal Warrant Analysis

Based on projected 2026 traffic volumes and proposed access plans, no unsignalized study area intersection with Homestead Road would warrant the installation of a traffic signal, based on the Peak Hour warrant methodology found in the 2009 Manual on Uniform Traffic Control Devices (MUTCD).

Crash Analysis

Pre-COVID crash data from the NCDOT Traffic Safety Unit was used from a previous TIA study for the five-year period 2/1/2015 to 1/31/2020 for the segment of Homestead Road Extension in the vicinity of the proposed site. There were 36 crashes reported along Homestead Road study area corridor between Seawell School Road and NC 86 over the five year period. The primary crash type was rear end crashes and crashes were primarily clustered near the NC 86 intersection. Overall, the number and rate of crashes along Homestead Road in the project study area is lower than state-wide averages for similar facilities, with the rate and index of severe crashes being higher, due to a single fatal crash (with a pedestrian) that occurred during the five year crash collection period.

Other Transportation-Related Analyses

Other transportation-related analyses relevant to the 2001 Town of Chapel Hill Guidelines for the preparation of Traffic Impact Studies were completed as appropriate. The following topics listed in **Table ES-3** are germane to the scope of this study.

Analysis	Comment
Turn Lane Storage Requirements	Storage bay lengths at study area intersections were analyzed using TransModeler maximum queue length estimates for the 2026 Build Scenario. At the intersection of Homestead Road and Weaver Dairy Road Extension, the southbound right-turn lane queue may exceed its existing storage regardless of site traffic impacts. Adjustments to signal timing may be necessary to mitigate this issue. No other intersection maximum queue results indicate potential queue spillback.
Appropriateness of Acceleration/ Deceleration Lanes	With relatively light traffic turning volumes, no additional acceleration/deceleration lanes are necessary in the vicinity of the project site driveway along Homestead Road, other than the proposed westbound center left-turn lane included in the U-4726 Town project design for Homestead Road.
Pedestrian and Bicycle Analysis	Existing pedestrian access and connectivity is adequate along the Homestead Road corridor in the vicinity of the site, though some gaps exist on both sides of the road in certain areas. Bicycle lanes extend along NC 86 north of Homestead Road and along the Weaver Dairy Road Extension, but no bicycle facilities exist along Homestead Road within the project study area. The Town's Homestead Road Improvements project will

 Table ES-3.
 Other Transportation-Related Analyses





2217 Homestead Townhomes - Proposed Residential Development

Analysis	Comment
	considerably improve pedestrian and bicycle facilities along Homestead Road within and to the west of the project study area by providing off-road paved paths that enhance bicycle and pedestrian connections.
Public Transportation Analysis	Public transportation service to the study area, and to the proposed site is adequate, with bus stops and multiple local and regional bus routes on both NC 86 and Homestead Road proximate to the site. In the immediate site vicinity, only one CHT Route (HS) directly runs adjacent to the site, with 30+ minute headways and service currently only in the peak AM and PM time periods.

Mitigation Measures/Recommendations

Planned Improvements

There are no North Carolina Department of Transportation improvement projects for study area roadway facilities within the analysis year time frame of 2022-2026. The Town of Chapel Hill has a transportation improvement project slated for construction prior to the 2026 site build-out year. The Homestead Road Improvements project (U-4726 IK) will create a consistent three-lane roadway cross-section west of the Weaver Dairy Road Extension intersection, as well as construct pedestrian and bicycle facility improvements between Seawell School Road and Weaver Dairy Road Extension. Improvements related to this project are shown schematically on **Figure ES-3**.

The Town also has the North-South Bus Rapid Transit Project, which will provide dedicated lanes for transit along the NC 86 corridor, along with other transit amenity improvements scheduled for construction in 2028. As final design details are not complete as of the submittal of this TIA, no specific lane usage changes along NC 86 were analyzed as part of this study.

Background Committed Improvements

Several traffic impact studies for development projects in and near the study area recommended signal timing reoptimization for signalized intersections along the NC 86 (Martin Luther King, Jr. Blvd) corridor by their respective build-out years. It is assumed that signal timing reoptimization will occur for the NC 86 corridor and for the Homestead Road / Weaver Dairy Road Extension intersection by the year 2026, whether or not specifically needed by any of the proposed background traffic generating developments included in this study. Improvements and access changes necessitated by the combined Bridgepoint and 2200 Homestead Road Residential projects are shown in **Figure ES-3** and are located primarily in the vicinity of the existing Greenway Landing intersection along Homestead Road.

Applicant Committed Improvements

Based on the preliminary site plans and supporting development information provided, there are several specific transportation-related improvements proposed for the 2217 Homestead Townhomes project. Internal and external improvements (shown schematically in **Figure ES-2 and ES-3**) include:

- Construction of a primary full movement access driveway connecting to Homestead Road with a proposed sidewalk along both sides of the driveway to connect to the new multi-use path provided by Town project U-4726.
- Construction of a full access minor street connection to existing Kipling Lane with an accompanying extension of sidewalk on both sides of the street connection.

Necessary Improvements

Based on traffic capacity analyses for the 2026 design year for the 2217 Homestead Townhomes development and analyses of existing study area turning bay storage lengths and site access, the

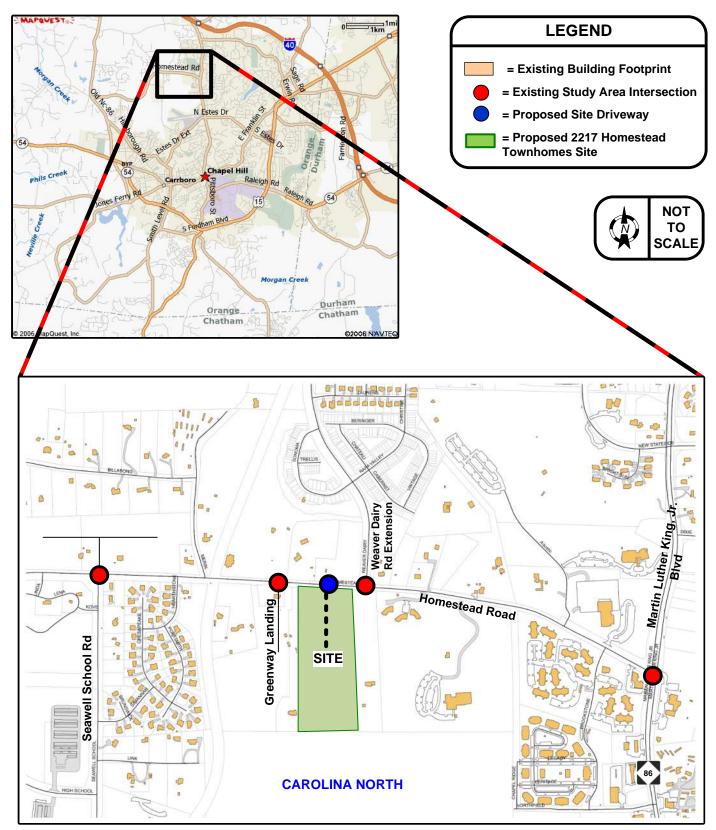




following improvements are recommended as being necessary for adequate transportation network operations and safety (see **Figure ES-3**).

- Restripe Center Turn Lane Created as part of the Town Homestead Road Improvements project for a 100' Westbound Left-Turn and Taper at the proposed Site Driveway and Use Remaining Available Storage in the center lane For Eastbound Left-Turn storage and Taper at the Homestead Road / Weaver Dairy Road Extension intersection.
- Provide Crosswalk across the proposed Site Driveway at its intersection with Homestead Road.





Source: Town of Chapel Hill GIS Files

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