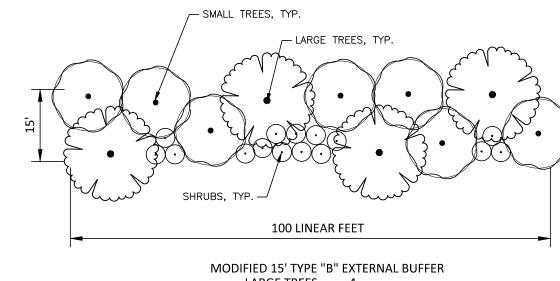


LANDSCAPE CALCULATIONS

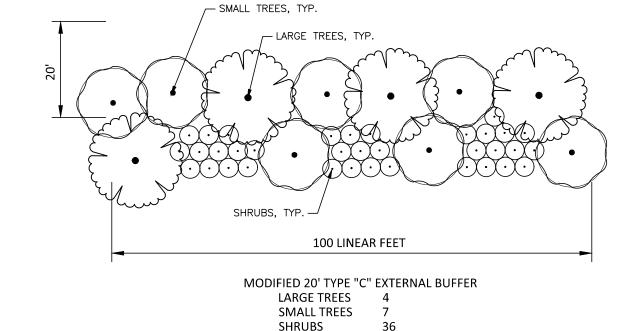
PARKING LOT SH		
PARKING AREA "A"		23,749
CANOPY TREES REQUIRED: PROVIDED:	12 (1/2,000 SF) 13	
PARKING AREA "B"		39,949
CANOPY TREES REQUIRED: PROVIDED:	20 (1/2,000 SF) 21	
PARKING AREA "C"		36,669
CANOPY TREES REQUIRED: PROVIDED:	19 (1/2,000 SF) 19	
PARKING AREA "D"		25,317 9
CANOPY TREES REQUIRED: PROVIDED:	13 (1/2,000 SF) 13	
PARKING AREA "E"		19,434 \$
CANOPY TREES REQUIRED: PROVIDED:	10 (1/2,000 SF) 10	

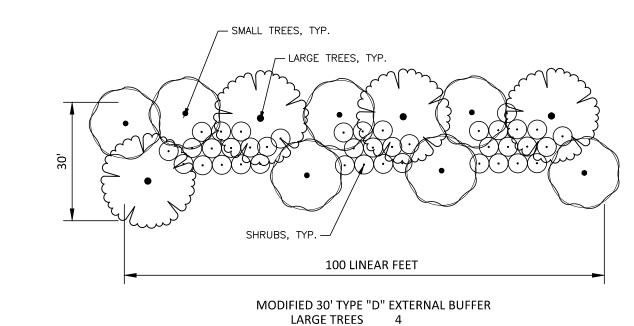
LANDSCAPE CALCULATION NOTES:

- 1. SEE SHEET TC-1, LANDSCAPE PROTECTION & TREE COVERAGE PLAN, FOR SITE TREE CANOPY COVERAGE CALCULATIONS.
- 2. TREE CANOPY CALCULATIONS ARE SUBJECT TO CHANGE, FINAL TREE REPLACEMENT REQUIREMENT TO BE DETERMINED WITH FINAL
- 3. TREE REPLACEMENT TO BE PROVIDED VIA TREE PLANTING, RESERVE AREA, PAYMENT-IN-LIEU, OR A COMBINATION OF THOSE OPTIONS.



LARGE TREES SMALL TREES SHRUBS





SMALL TREES

SHRUBS

TYPICAL MODIFIED BUFFER DETAILS PER TYPE

*MODIFIED LANDSCAPE BUFFERS ARE PROPOSED TO ENSURE HEALTHY GROWTH OF VEGETATION WHILE STILL MEETING THE INTENT OF BUFFER REQUIREMENTS.

LANDSCAPE NOTES

- CITY OF CHAPEL HILL AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
- 2. CONTRACTOR IS RESPONSIBLE FOR THE SITE INSPECTION BEFORE LANDSCAPE CONSTRUCTION AND INSTALLATION IN ORDER TO BECOME FAMILIAR WITH THE EXISTING
- 3. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES
- 4. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE NOTES, SPECIFICATIONS, DRAWINGS OR SITE CONDITIONS FOR RESOLUTION PRIOR TO
- 5. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 6. THIS PLAN IS FOR PLANTING PURPOSES ONLY. FOR INFORMATION REGARDING BUILDINGS, GRADING, WALLS, ETC., REFER TO ARCHITECTURE, SITE AND GRADING PLANS.
- 7. VERIFICATION OF TOTAL PLANT QUANTITIES AS SHOWN IN THE PLANT SCHEDULE SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
- 8. CONTRACTOR TO ENSURE PROPER STABILIZATION AND SEEDING OF THE SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- 9. LANDSCAPE MATERIAL SHALL BE WELL FORMED, VIGOROUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF VARIETIES SPECIFIED AND SHALL BE FREE FROM DAMAGE, INSECTS AND DISEASES. MATERIAL SHALL EQUAL OR SURPASS #1 QUALITY AS DEFINED IN THE CURRENT ISSUE OF "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
- 10. ALL PLANT MATERIAL IS TO BE CAREFULLY HANDLED BY THE ROOT BALL, NOT THE TRUNK, BRANCHES AND/OR FOLIAGE OF THE PLANT. MISHANDLED PLANT MATERIAL MAY BE
- BALL REMAINS INTACT THROUGHOUT THE PLANTING PROCESS. DEFICIENT PLANT MATERIAL
- 12. ALL PLANTS TO BE A MINIMUM OF WHAT IS SPECIFIED IN THE PLANT SCHEDULE. ANY GOVERNING JURISDICTION PRIOR TO ANY HOLE BEING DUG.
- 13. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT TO ESTABLISH THE EXTENTS OF MULCH/SEED/SOD IF NOT SPECIFICALLY SHOWN
- 17. CONTRACTOR SHALL COMPLETE SOIL TEST IN ALL PLANTING AREAS TO DETERMINE SOIL AMENDMENT REQUIREMENTS UNLESS WAIVED BY OWNER'S REPRESENTATIVE. CONTRACTOR SHALL ADJUST PH AND FERTILITY BASED UPON THE SOIL TEST RESULTS.
- 18. TOPSOIL SHALL BE FREE OF MATERIAL LARGER THAN 1.0 INCH IN DIAMETER OR LENGTH AND SHALL NOT CONTAIN SLAG, CINDERS, STONES, LUMPS OF SOIL, STICKS, ROOTS, TRASH, OR OTHER EXTRANEOUS MATERIAL.
- PLANTING SOIL MIX TO A DEPTH OF 6 INCHES BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER NATURAL SETTLEMENT. DO NOT SPREAD IF PLANTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
- DEPTH OF AT LEAST 6 INCHES PRIOR TO INSTALLATION OF IMPORTED TOPSOIL. FOLLOWING INSTALLATION OF IMPORTED TOPSOIL, THE TOPSOIL SHALL BE TILLED TO INTEGRATE THE
- MATERIALS WHICH REMAIN UNHEALTHY WILL BE REPLACED BY THE LANDSCAPE DIRECTED BY THE OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT.
- B FOOT RADIUS FROM BASE OF TREE OR TO DRIPLINE. MULCH SHALL BE FREE OF TRASH AND MAINTAINED WEED FREE. MULCH SHALL NOT COVER THE ROOT FLARE. CONFIRM MULCH SPECIFICATIONS WITH OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT.
- ROOT SYSTEMS FROM SUN SCALD, DRYING, SWEATING, WHIPPING, AND OTHER HANDLING DURING DELIVERY. DO NOT DROP EXTERIOR PLANTS DURING DELIVERY AND HANDLING.
- AND INSTALL IMMEDIATELY. IMMEDIATELY AFTER UNLOADING, STAND THE TREES UP TO REDUCE THE RISK OF SUN SCALD, PROPERLY STAGED TREES ARE STANDING, UNTIED AND SPACED. UNLESS IMMEDIATELY INSTALLED, SET EXTERIOR PLANTS AND TREES IN SHADE,
- 25. SEE LANDSCAPE DETAILS FOR TREE STAKING REQUIREMENTS.
- 26. EXCAVATE EDGES OF ALL PLANTING BEDS TO 2 INCH DEPTH TO FORM A NEAT AND CRISP
- 27. CONTRACTOR SHALL REMOVE DEBRIS AND FINE GRADE ALL PLANTING AREAS PRIOR TO INSTALLATION.
- 29. FINISH GRADING: GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH ELEVATION. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH

- 1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE
- BEFORE BEGINNING DEMOLITION OR INSTALLATION.

- REJECTED BY THE LANDSCAPE ARCHITECT.
- 11. ALL PLANT MATERIAL IS TO BE WELL ROOTED, NOT ROOT BOUND, SUCH THAT THE ROOT MAY BE REJECTED BY THE LANDSCAPE ARCHITECT OR OWNER.
- CHANGES OR SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND
- 14. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL PLANTING AREAS.
- 15. PROPOSED TREES TO BE PLANTED A MINIMUM 10 FEET FROM ANY LIGHT POLE AS MEASURED FROM TRUNK OF THE TREE TO THE POLE.
- 16. PROPOSED TREES TO BE PLANTED A MINIMUM 5 FEET FROM ANY FIRE HYDRANT AS MEASURED FROM TRUNK OF THE TREE TO THE HYDRANT.
- 19. LOOSEN SUBGRADE / SURFACE SOIL TO A MINIMUM DEPTH OF 6 INCHES. APPLY SOIL AMENDMENTS AND FERTILIZERS AS REQUIRED BY THE SOIL TEST RESULTS TO ACHIEVE A HEALTHY GROWING MEDIA AND MIX THOROUGHLY INTO TOP 4 INCHES OF SOIL. SPREAD
- 20. IF IMPORTED TOPSOIL IS REQUIRED, THE SUBGRADE SHALL BE SCARIFIED OR TILLED TO A
- 21. PLANT MATERIALS ARE TO BE GUARANTEED FOR A PERIOD OF 12 MONTHS. PLANT CONTRACTOR BEFORE THE EXPIRATION OF THE GUARANTEE PERIOD OR IMMEDIATELY IF SO
- 22. ALL TREE PLANTINGS SHALL BE MULCHED TO A DEPTH OF 3 INCHES, AND WITH A MINIMUM
- 23. DO NOT PRUNE TREES AND SHRUBS BEFORE DELIVERY. PROTECT BARK, BRANCHES, AND AND TYING DAMAGE. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DESTROY THEIR NATURAL SHAPE. PROVIDE PROTECTIVE COVERING OF EXTERIOR PLANTS
- 24. DELIVER EXTERIOR PLANTS AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED PROTECT FROM WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOTS MOIST.

- 28. REMOVE GUY WIRES AND STAKES AT END OF WARRANTY PERIOD OR ESTABLISHMENT.
- LOOSE, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN PLUS OR MINUS 1/2 INCH OF FINISH GRADES. LIMIT FINISHED GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE

REVISIONS

NO. DATE

PLAN INFORMATION

06. 07. 2023 REVISED PER 1ST CZP COMMENTS

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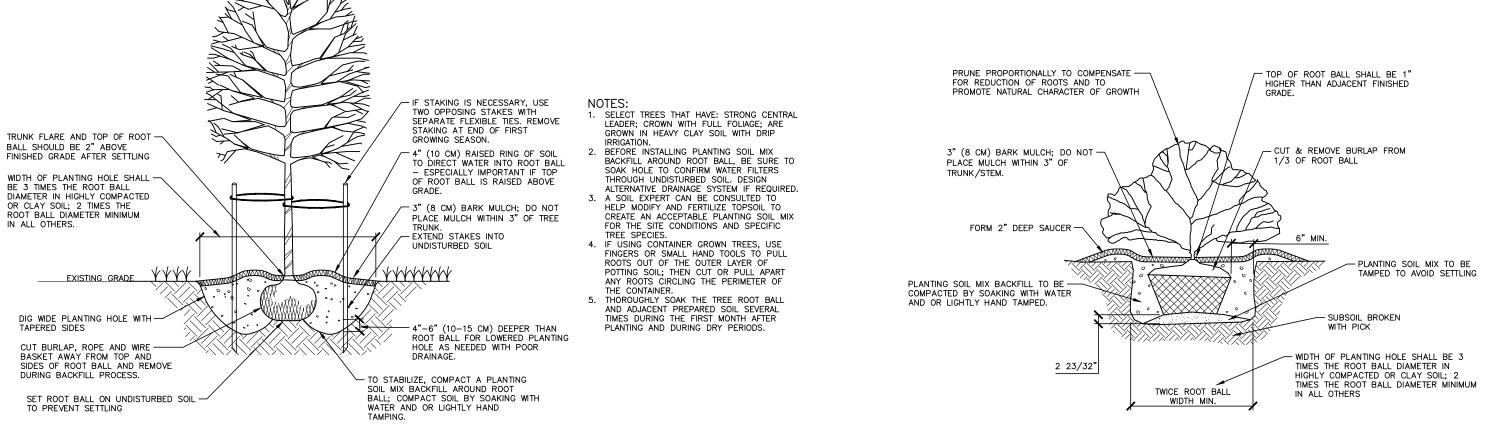
PHONE: 919. 354. 3680

PROJECT NO. RAV-21002 FILENAME RAV21002-LS1 CHECKED BY

DRAWN BY SCALE ######## 03. 23. 2023

SHEET

LANDSCAPE NOTES AND **DETAILS**



TREE INSTALLATION DETAIL

SCALE: 1/2" = 1'=0"

SHRUB INSTALLATION DETAIL

SCALE: 1/2" = 1'=0"

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

ALL CONSTRUCTION SHALL BE IN

SEE SHEET CO.00 FOR ALL PROJECT, SITE,

GRADING, STORM DRAINAGE AND UTILITY

ACCORDANCE WITH THE CURRENT TOWN

OF CHAPEL HILL AND NCDOT ENGINEERING

DESIGN AND CONSTRUCTION STANDARDS



LEGEND

722,608 SF

552,419 SF

165,725 SF

37,208 SF 75 TREES

EXISTING LITTLE JOHN ROAD (60' WIDE PUBLIC R/W)

TREE CANOPY COVERAGE

(30% MINIMUM TREE CANOPY COVERAGE OF NET LAND AREA)

30%: x0.30
MIN. TREE CANOPY COVERAGE REQUIREMENT: 165,725 SF

(ONE LARGE TREE PER 500 SF OF TREE CANOPY COVERAGE DEFICIT)

**REPLACEMENT TREES SHALL INCLUDE ALL PARKING LOT SHADE TREES

CALCULATIONS:

UTILITY AND ACCESS EASEMENTS:

TREE CANOPY COVERAGE DEFICIT

AREA TO REMAIN UNDISTURBED: TREE CANOPY COVERAGE DEFICIT:

TREE CANOPY COVERAGE DEFICIT:

REPLACEMENT TREES PROVIDED:

TREE CANOPY COVERAGE REQUIREMENT:

CANOPY REPLACEMENT CALCULATIONS

LARGE TREE REPLACEMENT REQUIRED:

*TREE CANOPY DEFICIT IS FOR THIS BLOCK ONLY

AND BUFFER CANOPY TREES IN THIS BLOCK

30% TREE CANOPY COVERAGE

REQUIREMENT:

NET LAND AREA

GROSS LAND AREA:

NET LAND AREA:

REQUIREMENT:

CRITICAL ROOT ZONE — SIZE (TRUNK DIAMETER) SPECIES TYPE

TO BE REMOVED

PROTECTION FENCE PROPERTY LINE

EXISTING TREE LEGEND PRESERVED EXISTING TREES

EXISTING SPECIMEN TREES

—_LP/TP—_LP/TP— LIMIT OF DISTURBANCE & TREE

NOTES

1. PROTECTIVE FENCING. FENCES, OR OTHER EQUALLY EFFECTIVE MEASURES AS DETERMINED BY THE TOWN MANAGER, SHALL BE USED TO PROTECT AREAS IDENTIFIED ON AN APPROVED LANDSCAPE PROTECTION PLAN DURING DEMOLITION AND CONSTRUCTION ACTIVITY. PROTECTIVE FENCING SHALL BE INSTALLED ACCORDING TO TOWN STANDARDS. FIELD ADJUSTMENTS MAY BE ALLOWED SUBJECT TO PRIOR APPROVAL BY THE TOWN MANAGER. ALL LAND DISTURBING ACTIVITY, STORAGE OF EQUIPMENT, BUILDING MATERIAL, SOIL, AND OTHER DEBRIS SHALL BE KEPT OUTSIDE THE PROTECTED AREAS.

BEECH

CEDAR

SWEET GUM

HICKORY

MAPLE

OAK

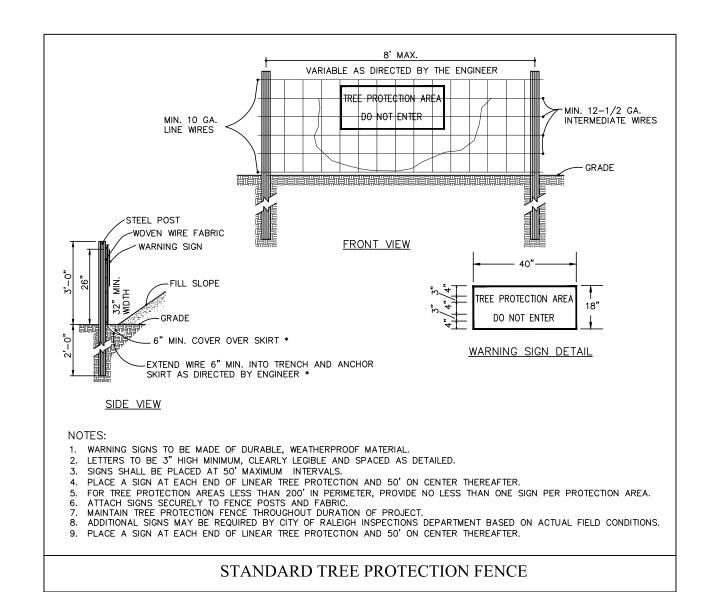
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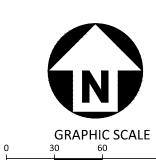
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- LANDSCAPING ACTIVITIES TAKING PLACE AFTER THE REMOVAL OF PROTECTIVE FENCING SHALL BE ACCOMPLISHED WITH LIGHT MACHINERY OR HAND LABOR AND IN ACCORDANCE WITH THE TOWN'S LANDSCAPING STANDARDS AND SPECIFICATIONS. THIS REQUIREMENT SHOULD BE NOTED ON THE PLANS.
- 3. PRIOR TO THE COMMENCEMENT OF ANY ACTIVITIES REQUIRING A ZONING COMPLIANCE PERMIT, A PRE-CONSTRUCTION CONFERENCE WITH THE TOWN'S URBAN FORESTER OR LANDSCAPE ARCHITECT SHALL TAKE PLACE TO REVIEW PROCEDURES FOR PROTECTION AND MANAGEMENT OF ALL PROTECTED LANDSCAPE ELEMENTS IDENTIFIED ON THE LANDSCAPE PROTECTION PLAN.
- 4. ON-SITE SUPERVISION. FOR ALL DEVELOPMENT OTHER THAN THAT RELATED TO SINGLE-FAMILY AND TWO-FAMILY DWELLINGS ON INDIVIDUAL ZONING LOTS, THE FOLLOWING ON-SITE SUPERVISION IS REQUIRED:
- 4.1. THE APPLICANT SHALL DESIGNATE AS LANDSCAPE PROTECTION SUPERVISORS ONE OR MORE PERSONS WHO HAVE COMPLETED INSTRUCTION IN LANDSCAPE PROTECTION PROCEDURES WITH THE TOWN.
- 4.2. IT SHALL BE THE DUTY OF THE LANDSCAPE PROTECTION SUPERVISOR TO ENSURE THE PROTECTION OF NEW OR EXISTING LANDSCAPE ELEMENTS, AS DEFINED IN THE LANDSCAPE PROTECTION PLAN. THE APPROVED LANDSCAPE PROTECTION SUPERVISOR SHALL SUPERVISE ALL SITE WORK TO ASSURE THAT DEVELOPMENT ACTIVITY CONFORMS TO PROVISIONS OF THE APPROVED LANDSCAPE PROTECTION PLAN. AT LEAST ONE (1) IDENTIFIED LANDSCAPE PROTECTION SUPERVISOR SHALL BE PRESENT ON THE DEVELOPMENT SITE AT ALL TIMES WHEN ACTIVITY THAT COULD DAMAGE OR DISTURB SOIL AND ADJACENT LANDSCAPE ELEMENTS OCCURS SUCH AS
- 4.2.1. CLEARING AND GRUBBING; ANY EXCAVATION, GRADING, TRENCHING OR MOVING OF SOIL; REMOVAL, INSTALLATION, OR MAINTENANCE OF ALL LANDSCAPE ELEMENTS AND
- LANDSCAPE PROTECTION DEVICES; OR DELIVERY, TRANSPORTING, AND PLACEMENT OF CONSTRUCTION MATERIALS AND **EQUIPMENT ON SITE**





SEE SHEET CO.00 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF CHAPEL HILL AND NCDOT ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



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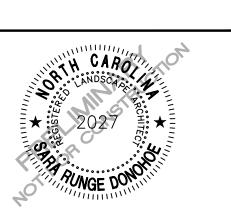
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REVISIONS

NO. DATE 1 06. 07. 2023 REVISED PER 1ST CZP COMMENTS

PLAN INFORMATION

PROJECT NO. RAV-21002 FILENAME RAV21002-TC1 CHECKED BY DRAWN BY SCALE 03. 23. 2023

SHEET

LANDSCAPE PROTECTION PLAN