

DDC 7.7.4: Tree Preservation

DCRC 4/28/2025

Introduction

Tree Code Overview

- Applicability and exemptions
- Definitions
- Tree Preservation Plan
- Preservation Requirements
- Tree protection requirements during construction
- Tree replacement & preservation credits
- Incentives

Areas to Address

- Emphasis on Heritage trees
- Encroachment of Dripline
- Industry best standards
- Updates to definitions

Tree Preservation Purpose & Intent

- Protect trees and promote the ecological, environmental, and aesthetic values of the city;
- Maintain and enhance a positive image of the city through the preservation, mitigation, and planting of trees;
- **Prevent** the untimely and indiscriminate **removal** or destruction of trees and clear-cutting of land;
- Provide for a **permitting and enforcement** procedure;
- Preserve the **public health, safety, and general welfare** of citizens
- Encourage the protection of healthy trees and provide for the replacement and/or replanting of trees that are necessarily removed during construction, development, or redevelopment;
- Provide for the **preservation and protection of larger native and/or established trees**, which provide a valuable amenity to the urban environment and which, once destroyed, can only be replaced after generations, if at all;
- Enhance and preserve established tree stands adjacent to Environmentally Sensitive Areas in order to further protect wildlife habitats and reduce impacts from new developments;
- Provide for **shade**, **windbreaks**, **and the cooling of air**; thereby, reducing the requirements for air conditioning and heating and the utilization of nonrenewable energy sources; and
- Provide for open space and more efficient drainage of land; thereby, reducing the effects of soil erosion and the need for additional drainage facilities.

City-wide Canopy Goals

2020 Urban Forest Master Plan Goals:

- 40% City-wide tree canopy by 2040
- Diverse, healthy, and equitable canopy distribution across the City

The City's canopy goals are achieved by two things:

- Preservation of existing trees
- Landscape plantings

2019 DDC Goals (7.7.2)		
City-Wide	30%	
East of I-35	40%	
West of I-35	20%	

Applicability and Exemptions

Applicable

- Undeveloped land
- All non-residential and Multifamily property to be redeveloped
 - When building footprint will change
- Existing single-family (SFR) and duplex properties who apply for a demolition permit
 - Protected trees are 10" or greater

Exemptions

- Agricultural land
- SFR and duplex properties
 - Provided trees are not on a Tree Preservation Plan
- Dead/Diseased trees
- Trees causing risk to the public
- Trees listed on the Texas Department of Agriculture Noxious and Invasive Plant List
- Clearing of Understory to perform surveying
 - Boundary surveying
 - Soil borings
 - Tree Survey
 - Trees must be 10" or greater

Tree Definitions

- **Diameter at Breast Height (DBH):** The tree trunk diameter measured in inches at a height of 4.5 feet above ground level. For multi-trunk trees, combine the diameter of the largest stem or trunk with one-half of the diameter of each additional stem or trunk, all measured at four and one-half 4.5 feet above ground level.
- <u>Heritage</u>: All quality trees with a DBH greater than 18 inches and all Post Oaks with a DBH of 6 inches or greater.
- <u>Quality</u>: All healthy non-secondary trees, except Post Oaks, that measure between 6 inches and 18 inches DBH.
- Secondary: A healthy Ash, Bois D'Arc, Hackberry, or Gottonwood tree, with a DBH greater than 6 inches.

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Tree Definitions (cont.)

Non-Protected:

- Dead or Unhealthy Trees
- Trees that pose an imminent or immediate threat to persons or property
- Crape Myrtles and ornamental pears
- Mesquite and Honey Locust, unless part of a Preserved Habitat or Conservation Easement
- Any tree listed on the Texas Department of Agriculture Noxious and Invasive Plant List

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Tree Definitions (cont.)

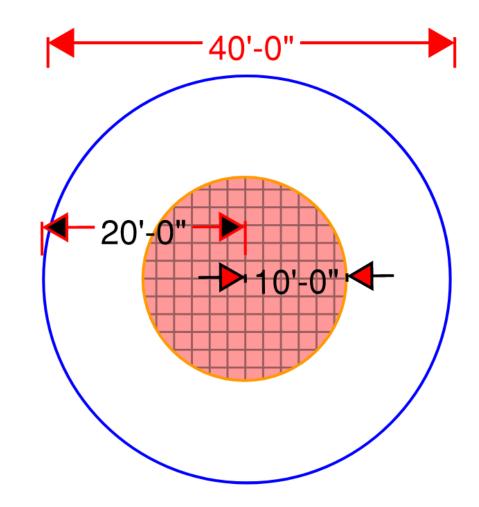
- Landmark: A healthy tree designated on the <u>Texas Big Tree Registry</u>; or a tree designated as a <u>historic tree (event of historic significance</u> occurred; at the home of a famous citizen; or has legendary stature in the community, is mentioned in literature/documents of historic value, or is considered unusual due to size, age, or other landmark status).
 - 3 in Denton County



Tree Definitions (cont.)

Not in the DDC (yet)

- Dripline: A circle around the trunk of the tree equivalent in diameter to 2 times the DBH, in feet.
- Critical root zone (CRZ): A circle around the trunk of the tree equivalent in diameter to the DBH, in feet.



Tree Preservation Plan

- Prepared for any undeveloped land on which protected trees exist
- Tree Survey
- All improvements are noted on this plan
 - Tree Protection fencing
- Lives alongside a project throughout the life of the project



Tree Preservation Requirements

Standard Preservation

• A minimum of 30% preservation of the total dbh (diameter at breast height) of Heritage and Quality Trees

Lowest Preservation Allowed

• A minimum of 20% dbh preservation of Heritage and Quality trees with 10% higher mitigation

Only secondary trees on-site

• 20% preservation of the total dbh

Preservation Relief

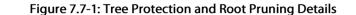
- City Council approval
- Criteria for approval
 - Unique physical circumstance
 - Proposed design must minimize the loss of trees to the extent possible
 - Tree preservation and/or mitigation unduly burdens the development property

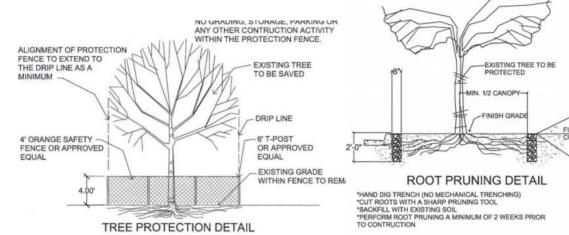
Tree Protection During Construction

- Trees to be preserved must be fenced during construction to protect from encroachment of equipment, waste, etc. within the drip line or Critical Root Zone (CRZ)
- If fill or excavation is to occur within the dripline, measures must be taken to ensure its survival:
 - Root pruning for retaining walls/tree wells
 - Porous paving or other means to ensure water and oxygen passage to roots if paving is to occur
 - Bark protection
- No work can be done within 5' of the trunk or 1' for every 2" of DBH, which ever is greater

Tree Protection Example







Tree replacement

	Ratio	If Below 30%
Heritage	2.5 : 1	2.75 : 1
Quality	2:1	2.25 : 1
Secondary	4":1 tree	4":1 tree

Replacement totals are reduced

- 50% for residential
- 40% for non-residential uses

Tree Credits

- Tree Type
 - Heritage 3:1
 - Quality 2:1
 - Secondary 0.5:1
 - Landmark*
- Cluster Credit (additional credit for preserved trees within 10' of each other)
- Street Trees and other required landscape tree plantings can also be applied as credits if they have a minimum dbh of 2" (7.7.5 C.2.c.)

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Areas to Address

Staff Recommendations

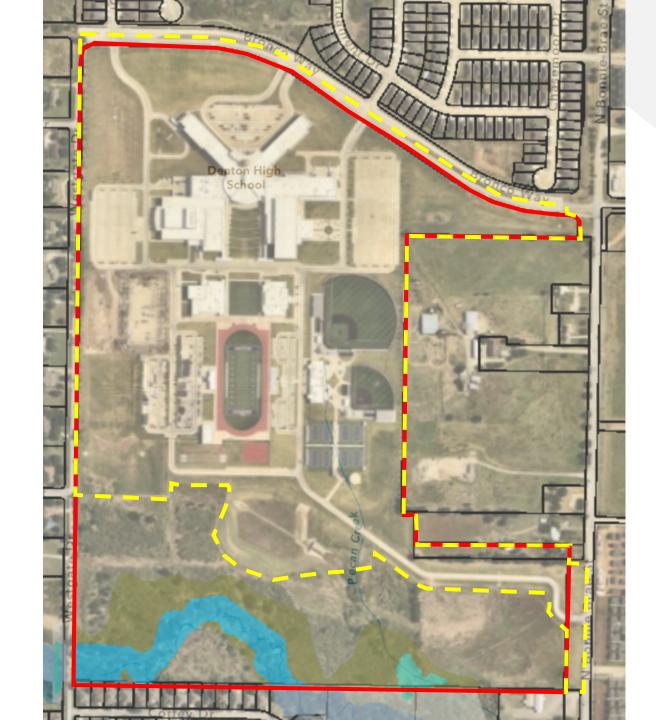
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DCRC Additional Aras to explore

Questions







Property Boundary – DIA – – –