

AGENDA

TOWN OF FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION REGULAR MEETING

MARCH 1, 2016

**FLOWER MOUND TOWN HALL
2121 CROSS TIMBERS ROAD
FLOWER MOUND, TEXAS**

6:30 P.M.

AN AGENDA INFORMATION PACKET IS AVAILABLE ONLINE AT
[HTTPS://TX-FLOWER MOUND.CIVICPLUS.COM/AGENDACENTER](https://tx-flowermound.civicplus.com/agendacenter)

A. CALL REGULAR MEETING TO ORDER – 6:30 PM

B. CITIZENS/VISITORS COMMENTS

1. Please fill out an “Appearance Before Environmental Conservation Commission” form in order to address the Environmental Conservation Commission, and turn the form in prior to Citizens and Visitors Comments, or by 6:40 p.m. to the Town staff. Speakers are normally limited to three minutes. Time limits can be adjusted by the Chair as to accommodate more or fewer speakers.

C. INVOCATION AND PLEDGE OF ALLEGIANCE

D. STAFF REPORT

1. Update and status report related to environmental issues and events, regulatory activities, and projects.

E. CONSENT AGENDA - CONSENT ITEMS

This agenda consists of non-controversial or "housekeeping" items and may be approved with a single motion. A member of the Environmental Conservation Commission may request an item(s) be withdrawn from the consent agenda and moved to regular agenda for discussion by making such request prior to a motion and vote on the Consent Agenda.

1. Consider approval of minutes from the regular meeting of the Environmental Conservation Commission held on February 2, 2016.

F. REGULAR ITEMS

2. Consider an application for a tree removal permit for one (1) specimen tree on property proposed for development as Hawks Hill QT. The property is generally located west of Long Prairie Road and south of Waketon Road.

Environmental Conservation Commission Meeting Agenda

March 1, 2016

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3. Consider an application for a tree removal permit for two (2) specimen trees on property proposed for development as Parkside at Woodlake, Ph. 2. The property is generally located south of Rembert Drive and west of Long Prairie Road.

G. ADJOURNMENT – REGULAR SESSION

H. CALL WORK SESSION TO ORDER

I. WORK SESSION ITEMS

4. Discuss the sustainability initiatives and priorities for 2016.

J. COORDINATION OF FUTURE AGENDAS/MEETINGS

K. ADJOURNMENT – WORK SESSION



Matthew Woods
Director of Environmental Services

I do hereby certify that the Notice of Meeting was posted on the bulletin board in Town Hall of the Town of Flower Mound, Texas, a place convenient and readily accessible to the general public at all times and said Notice was posted on the following date and time: February 26, 2016, by 5:00 p.m., at least 72 hours prior to the schedule time of said meeting.



Emily Chapman
Administrative Assistant



ENVIRONMENTAL CONSERVATION COMMISSION AGENDA ITEM NO. 1

CONSENT ITEM

DATE: March 1, 2016

FROM: Emily Chapman, Administrative Assistant

ITEM: Consider approval of minutes from the regular meeting of the Environmental Conservation Commission held on February 2, 2016.

BACKGROUND INFORMATION: This agenda item is to consider approval of the minutes from the February 2, 2016, regular meeting of the Environmental Conservation Commission.

CITIZEN FEEDBACK: N/A

ALTERNATIVES/OPTIONS: N/A

FISCAL IMPACT: N/A

LEGAL REVIEW: N/A

ATTACHMENTS:

1. A copy of the draft minutes from the February 2, 2016, regular meeting of the Environmental Conservation Commission.

RECOMMENDATION: Move to approve the minutes from the February 2, 2016, regular meeting of the Environmental Conservation Commission.

FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION MEETING OF FEBRUARY 2, 2016

THE FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION MEETING HELD ON THE 2ND DAY OF FEBRUARY 2016, IN THE FLOWER MOUND TOWN HALL, LOCATED AT 2121 CROSS TIMBERS ROAD IN THE TOWN OF FLOWER MOUND, COUNTY OF DENTON, TEXAS, AT 6:30 P.M.

The Environmental Conservation Commission met in regular session, with the following members present constituting a quorum:

Craig Bromley	Chair
Russ McNamer	Vice Chair
Ellen Stallcup	Commission Member, Place 2
Marilyn Lawson	Commission Member, Place 4
Elaine Takacs	Commission Member, Place 6
Alton Bowman	Commission Member, Place 5
James Gerber	Commission Member, Place 7
Karen Kroesen	Commission Member, Place 9

Constituting a quorum with the following members absent:

Vacant	Commission Member, Place 8
Jim Cumbest	Commission Member, Place 10

Places 8, 9, and 10 of the Commission do not vote on items unless they sit in place of one of the regular members, Places 1-7.)

And the following members of Town staff present:

Matthew Woods	Director of Environmental Services
Emily Chapman	Administrative Assistant
James Hoefert	Environmental Review Analyst
Quintin Carey	Environmental Review Analyst

A. CALL TO ORDER - REGULAR SESSION: 6:30 P.M.

B. CITIZENS/VISITORS COMMENTS

C. INVOCATION AND PLEDGE OF ALLEGIANCE

D. COMMISSION MEMBER REPORTS

E. STAFF REPORT

- 1. Update and status report related to environmental issues and events, regulatory activities, and projects.**

FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION MEETING OF FEBRUARY 2, 2016

F. CONSENT AGENDA

- 1. Consider approval of minutes from the regular meeting of the Environmental Conservation Commission held on January 5, 2016.**

Commission Deliberation

Vice Chair McNamer made a motion to approve the January 5, 2016, minutes as presented. Commission Member Lawson seconded the motion.

VOTE ON THE MOTION

AYES: Gerber, Bowman, Lawson, McNamer, Stallcup, Takacs
NAYS: None
ABSTAIN: None

The motion passed with a vote of 6-0-0

G. REGULAR ITEMS

- 2. Consider an application for a tree removal permit for one (1) specimen tree on property proposed for development as Mi Dia. The property is generally located west of Long Prairie Road and south of West Windsor Drive.**

Staff Presenter

James Hoefert, Environmental Review Analyst, gave a presentation with the following items included:

- Site Location
- Project Information Overview
- Lot Layout
- Tree Survey
- Photos of Tree Proposed for Removal

Applicant Presentation

Ron Stewart- Eviron Group (111 Hillside Drive, Lewisville, TX 75057), gave a presentation with the following items included:

- Letter of Intent
- Photo of Tree Proposed for Removal
- Site Plan
- Landscape Plan

Commission Deliberation

FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION MEETING OF FEBRUARY 2, 2016

Vice Chair McNamer made a motion to approve the application for a tree removal permit for one (1) specimen tree on property proposed for development as Mi Dia. The property is generally located west of Long Prairie Road and south of West Windsor Drive. Commission Member Stallcup seconded the motion.

VOTE ON THE MOTION

AYES: Gerber, Bowman, Lawson, McNamer, Stallcup, Takacs
NAYS: None
ABSTAIN: None

The motion passed with a vote of 6-0-0

H. ADJOURNMENT – REGULAR SESSION – 6:59 P.M.

I. CALL WORK SESSION TO ORDER 6:59 P.M.

J. WORK SESSION ITEMS

3. Continue an evaluation and discussion of the Town's tree preservation regulations and Urban Forestry Program.
4. Discuss the status of the sustainability initiatives and provide updates.

K. COORDINATION OF FUTURE AGENDAS/MEETINGS

L. ADJOURNMENT –WORK SESSION 8:35 P.M.

TOWN OF FLOWER MOUND, TEXAS



MATTHEW WOODS

DIRECTOR OF ENVIRONMENTAL SERVICES

ATTEST:



EMILY CHAPMAN
ADMINISTRATIVE ASSISTANT



ENVIRONMENTAL CONSERVATION COMMISSION AGENDA ITEM NO. 2

REGULAR ITEM

DATE: March 1, 2016
FROM: James Hoefert, Environmental Review Analyst
PRESENTER: Ron Stewart, with G&A Consultants
ITEM: Consider an application for a tree removal permit for one (1) specimen tree on property proposed for development as Hawks Hill QT. The property is generally located west of Long Prairie Road and south of Waketon Road.

BACKGROUND INFORMATION:

The Hawks Hill QT development is generally located west of Long Prairie Road and south of Waketon Road. The site is approximately 1.5 acres in size. The site is currently master planned for Specific Plan Area 5 (SPA 5) and is zoned for Retail-2 (R-2) uses within Planned Development District No. 141 (PD-141). According to the tree survey for the project, the site contains a total of one (1) specimen tree. The applicant is requesting to remove the one (1) specimen tree from the site in order to build a gas station. The specimen tree proposed for removal (Tree #9370 – 32" pecan) is in good condition and is located within the proposed buildable area.

Although the Town's tree preservation ordinance, Chapter 94 – Trees, was amended in July of 2015 to remove the mitigation exception for non-residential uses within Specific Plan Areas, the initial development application for the entire Hawks Hill development was submitted prior to the ordinance adoption and is therefore not subject to the mitigation requirements. However, the developer has agreed to mitigate for the removal of the specimen tree based on the Town's present tree ordinance standards, at a rate of two times the caliper inches removed. Based on the tree's size, the mitigation amount is 64" of replacement trees, equaling 21 three-inch caliper trees or \$8,000.00 in tree mitigation. The applicant is proposing to pay the fee instead of planting to address the mitigation.

CITIZEN FEEDBACK: As of February 26, 2016, staff has received one correspondence in opposition of the project.

ALTERNATIVES/OPTIONS: N/A

FISCAL IMPACT: N/A

LEGAL REVIEW: N/A

ATTACHMENTS:

1. Letter from the applicant indicating the reason(s) for the tree removal permit request.
2. Specimen tree removal permit application.
3. Correspondence in opposition
4. Photographs of the specimen trees proposed for removal.
5. Photograph of approved signage onsite.
6. Project Tree Survey.

RECOMMENDATION: Move to recommend approval or denial of the requested permit for the removal of one (1) specimen tree on property proposed for development as Hawks Hill QT. The property is generally located west of Long Prairie Road and south of Waketon Road.



February 16, 2016

Jimmy Hoefert, Environmental Review Analyst
 Town of Flower Mound
 1001 Cross Timbers Road, Suite 2330
 Flower Mound, TX 75028

Reference: Tree Removal Permit Application
 Quick Trip Corporation
 SW Corner FM 2499 and Waketon Road
 1.4935 acres
 Part of 33.217 acres, Hawks Ramsey, LLC
 C.C.F. Number 2007-51767, D.R.D.C.T.
 Flower Mound Denton County, Texas

Dear Mr. Hoefert;

On behalf of the owner/developer on the aforementioned property, we are requesting that (1) specimen tree (as outlined on the attached tree removal exhibit), as defined in the TOFM Tree Preservation Code, be removed. The tree is being requested to be removed due to site and design conditions which thereby mean the subject development cannot reasonably be developed, based on economic and/or practical considerations, without removal of the tree included in the permit application.

TREE TABULATIONS FROM THE SPECIMEN TREE SURVEY

Total specimen trees	1 Tree
Total specimen trees removed	1 Tree

Several plans were generated with various renditions of each based on saving the specimen tree as per the owner. Various configurations of the detention area and pavement were considered and reviewed with the owner and design engineers. Due to existing conditions with the site, existing and updated drainage easements, Town of Flower Mound engineering, landscape and fire ordinances, the current site plan was finalized. During the Hawks Hill Development Plan process the owners of Hawks Hill, Hawks Ramsey, LLC, perceived that the specimen tree on the QT site could be saved. During the Development Plan submittal, grading for each site had not been required. With the QT SUP and Master Plan Amendment submittal, the preliminary engineering of the site; including grading, detention, water conveyance, paving and utilities, was

a division of G&A Consultants, LLC

reviewed. In order to achieve the Town required storm water detention/grading requirements, the required preservation of the specimen tree root zone could not be preserved. The layout presented takes into account the site grading, and town required buffers, parking, and hydrology. The site plan before you appears to be the most beneficial for taking into account all the site constraints and opportunities.

The following is the specimen tree we are requesting to be removed:

1. Tree #9370 32" caliper Pecan Tree
This tree is being removed due to existing conditions and site constraints.

The mitigation we are proposing for this tree is $2 (x) 32'' = 64'' (x) \$125.00/\text{inch} = \$8,000.00$.

Thank you for your consideration.

Based on the above data, I respectfully ask that the tree enumerated above be allowed to be removed from the site.

Respectfully submitted,



Ron Stewart, ASLA
Landscape Architect, TX #791

a division of G&A Consultants, LLC

Town of Flower Mound
 Application for:
TREE REMOVAL PERMIT

(Effective for Developments submitted 2/17/00- present)

Check one: ☐ Protected Tree ☒ Specimen Tree ☐ Majestic Tree

1. Applicant- Note: Must be a licensed Landscape Architect or Registered Arborist

Name:

RON STEWART
 ENVIRONS GROUP

Address:

111 HILLSIDE DR.
 LEWISVILLE, TX 75057

Phone:

(972) 317-0276

Applicant's Legal Interest in the Property:

LANDSCAPE ARCHITECT

2. Property Owner(s)

Name(s) Q.T. QUICK TRIP CORPORATION

Address: 1120 N. INDUSTRIAL BLVD.
 EULESS, TX 76039

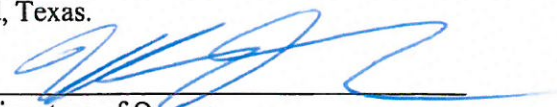
3. Location and Legal Description of Property:

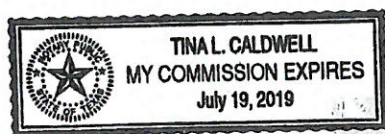
SW CORNER FM2499 & WAKETON
 65,057 S.F. 1.4935 ACRES
 PART OF 33.217 ACRES, HAWKS RAMSEY, LLC
 C.C.F. NO. 2007-51767, D.R.-D.C.T.

page 2 of 3.

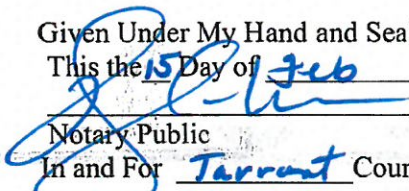
4. Owner's Authorization of Representation

I, Michael Potter, the owner of the above described real property, do hereby authorize RON STEWART to represent my interests and to file an Application for Tree Removal Permit for said real property, pursuant to the terms and provisions of Chapter 94 (Vegetation), of the Land Development Code of the Town of Flower Mound, Texas.


Signature of Owner

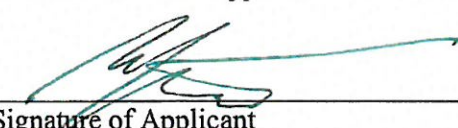


Given Under My Hand and Seal of Office
This the 15 Day of Feb, 2016

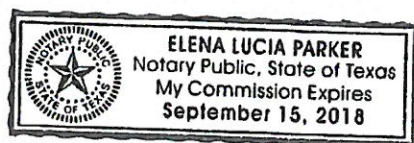

Notary Public
In and For Tarrant County, Texas.

5. Applicants Affidavit- Note: Applicant must be a licensed Landscape Architect or Registered Arborist.

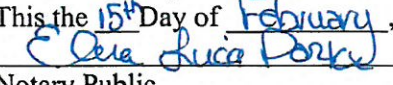
Subject to criminal penalties contained in Chapter 12, Land Development Code of the Town of Flower Mound, Texas, I RON STEWART, do hereby swear or affirm that all of the Information contained herein and submitted herein is, to the best of my knowledge, true, correct and complete and that no false, misleading or incomplete information has been intentionally provided or submitted with this Application for a Tree Removal Permit.


Signature of Applicant

Landscape Architect License No. 791
State of Licensure TX
Or ISA Certified Arborist No. _____



Given Under My Hand and Seal of Office
This the 15 Day of February, 2016


Notary Public
In and For Denton County, Texas

6. Received by Town of Flower Mound on (Date) 2/16/2016 by (initials) JRH.

Emily Chapman

Subject: FW: Letter
Attachments: Tree Exhibit.pdf

From: Chuck Russell
Sent: Thursday, February 25, 2016 10:01 AM
To: Chuck Russell
Cc: James Hoefert; Matthew Woods
Subject: FW: Letter

Sorry, with attachment this time.

Commissioner's,

Ms. Malone has asked that I share the e-mail below with you. A tree removal request for one specimen tree has been made for the proposed QT convenience store site at the southwest corner of Waketon Road and Long Prairie Road. Attached is draft plan with the location of the tree highlighted with a red circle.

Although the tree removal item will not be considered by P&Z, it will be considered by the Environmental Conservation Commission (ECC) on March 1. They will make a recommendation to Council for final action.

If you have any questions or need additional information, please contact our tree specialist, James Hoefert. He is copied on this e-mail and his phone # is 972-874-6352.

As always, to be on the safe side, please do not reply all or contact other Commissioners regarding this e-mail.

Thank you.

Chuck Russell, AICP
Town Planner
Planning Services Division
Town of Flower Mound
1001 Cross Timbers Road (Office Location)
2121 Cross Timbers Road (Town Hall and Mailing Address)
Flower Mound, TX 75028
972-874-6347
chuck.russell@flower-mound.com

Q³ Quality People + Quality Service = Quality of Life

From: Lisa Malone
Sent: Thursday, February 18, 2016 10:12 PM
To: planning
Cc: Mark Malone
Subject: Hawks Hill Tree Removal Request

Dear Planning and Zoning

RE. Tree removal request for Hawks Hill (Watkins Tract) at the corner of Waketon and 2499.

One of the big attractions that make Flower Mound a favorite place to relocate to and raise a family is the big beautiful trees and set-backs from the roads when development occurs. We are beginning to see more and more developments creeping closer to the roadways and trees cleared completely. If this continues to be the trend, we will begin to look like all the other congested, concrete cities that many relocated residents left behind.

We were concerned to learn that a Quick Trip was planned for the corner of Waketon and 2499; however, we respected the land owner's position to develop the property within the guidelines of the Master Plan. In spite of our concerns, we were glad to hear the original plans included keeping the big beautiful tree on the corner. Keeping this staple of our landscape would add character to what would otherwise be the boring, blocked, concrete look of the QT's you see in other areas.

Residents of Flower Mound have been able to enjoy this truly breathtaking tree from all angles of the intersection for generations, and should be able to enjoy it for generations to come.

Thank you for taking care of the things that make Flower Mound a great place to live.

Lisa and Mark Malone



Sent from my iPhone

OUTDOOR
SEATING
AREA

STORE NO. 0944
5,773 S.F.
BLDG. HT. 22'-0"

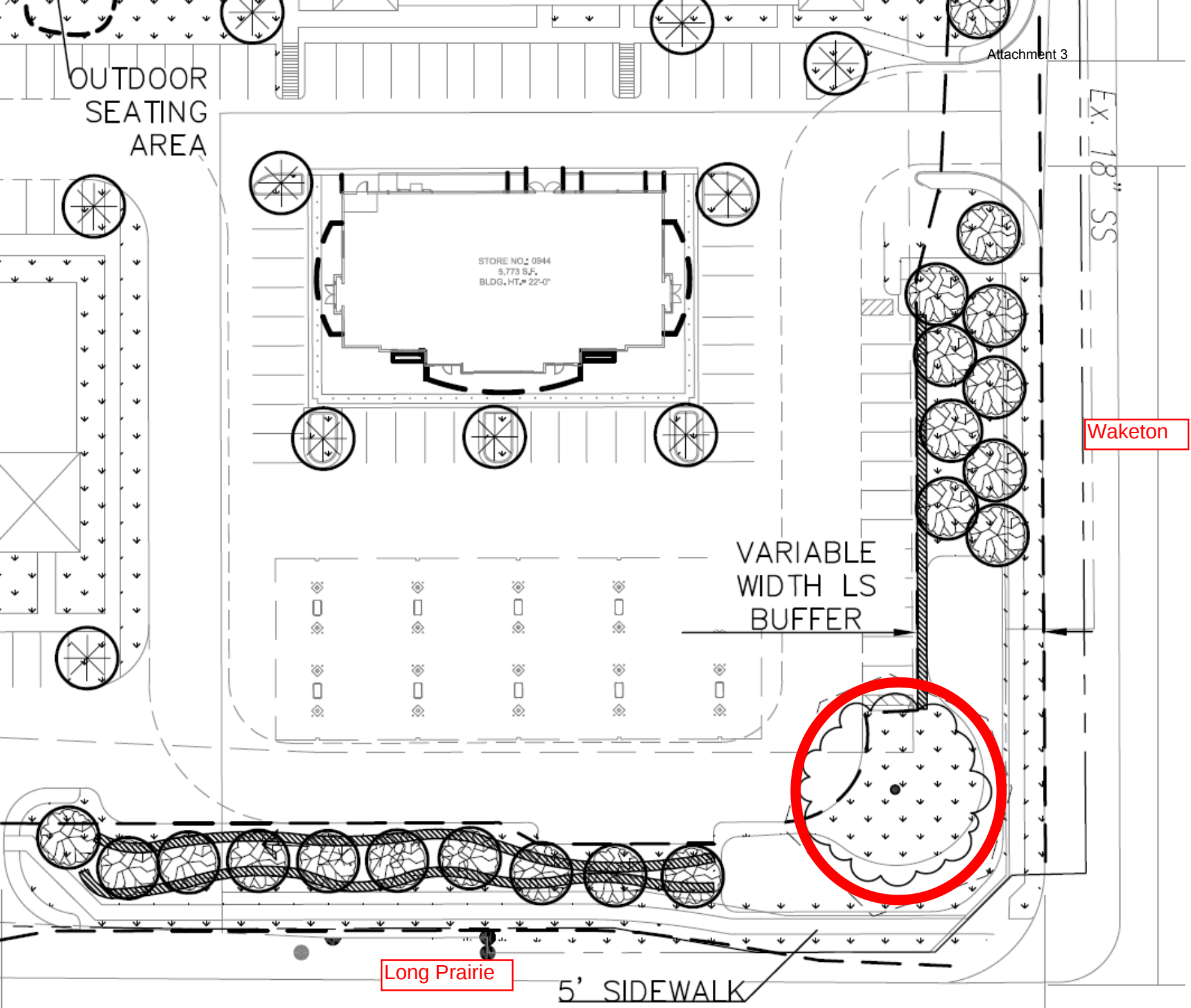
VARIABLE
WIDTH LS
BUFFER

Waketon

Long Prairie

5' SIDEWALK

EX. 18" SS



Hawks Hill QT

Specimen tree proposed for removal

Tree #9370 – 32" Pecan



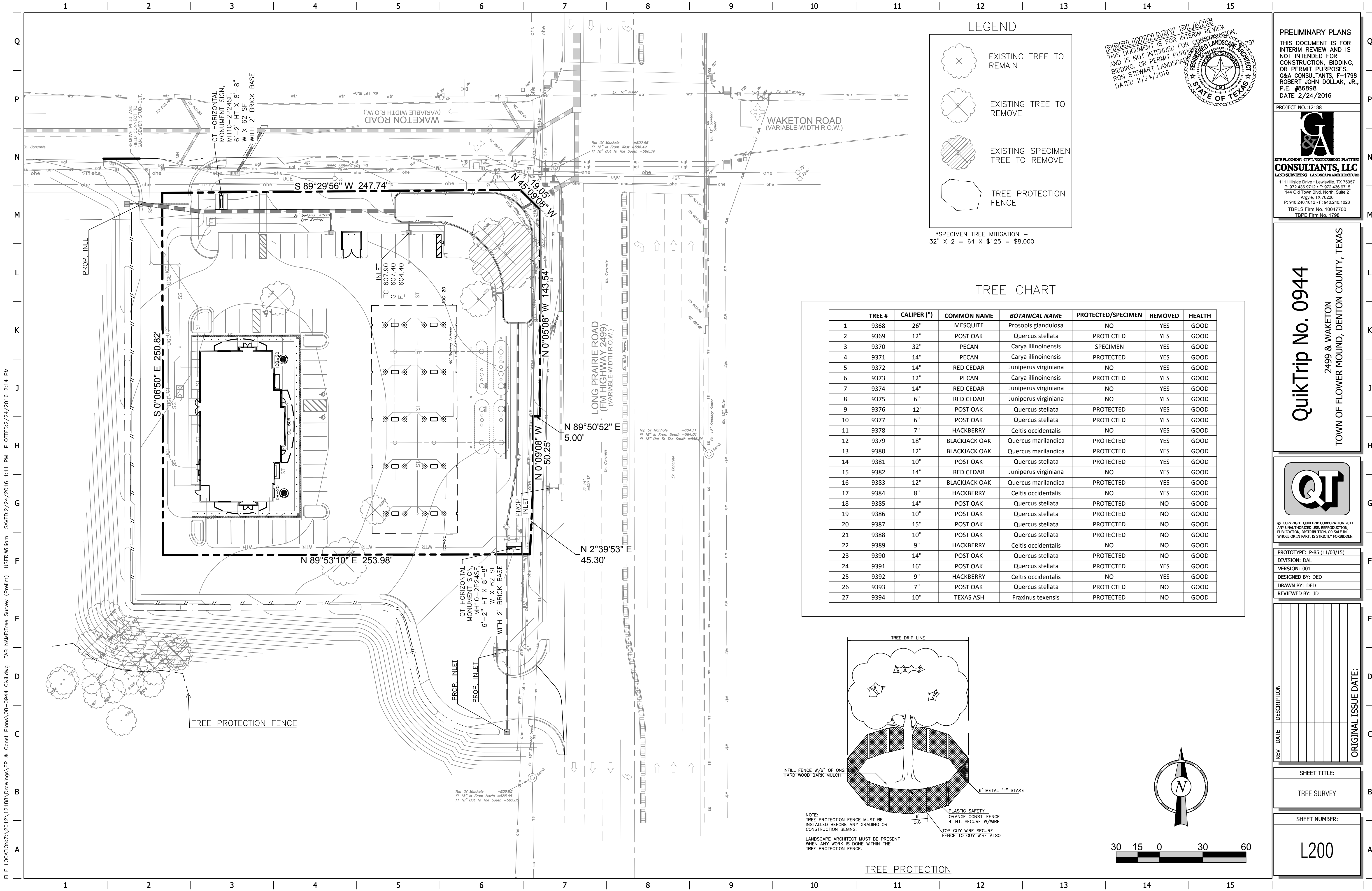
Tree Removal Request Signage

Along Long Prairie Road



Along Waketon Road







ENVIRONMENTAL CONSERVATION COMMISSION AGENDA ITEM NO. 3

REGULAR ITEM

DATE: March 1, 2016
FROM: James Hoefert, Environmental Review Analyst
PRESENTER: Reginald Rembert, with Rembert Builders, Inc.
ITEM: **Consider an application for a tree removal permit for two (2) specimen trees on property proposed for development as Parkside at Woodlake, Ph. 2. The property is generally located south of Rembert Drive and west of Long Prairie Road.**

BACKGROUND INFORMATION:

The Parkside at Woodlake, Phase 2 development is generally located south of Rembert Drive and west of Long Prairie Road. The site is approximately 1.000 acre in size. The site is currently master planned for Medium Density Residential and is zoned for Agricultural uses. The applicant is requesting a Master Plan Amendment to change the land use designation to High Density Residential and rezone the property by amending Planned Development District No. 132 (PD-132) with Single-Family District-5 (SF-5) uses to include this additional land. According to the tree survey for the project, the site contains a total of four (4) specimen trees. The applicant is requesting to remove two (2) of the specimen trees from the site in order to build a residential subdivision. The specimen trees proposed for removal are both in good condition and are located within the proposed buildable area.

The following is a list of the two (2) specimen trees requested for removal:

Tree #13 (located in the buildable area) – 26" post oak

Tree #24 (located in the buildable area) – 34" post oak

The Town's tree ordinance requires that specimen trees removed from the site be replaced at a rate of two times their caliper inches. Based on their sizes, 120" of replacement trees, equaling 40 three-inch caliper trees, will be required for the removal of the two (2) specimen trees on this site. In addition, protected trees removed from the buildable area will also require replacement at a tree-for-tree rate. Protected tree mitigation / replacement will be determined with the record plat application – once final engineering has been completed for the project.

CITIZEN FEEDBACK: As of February 26, 2016, staff has not received feedback related to this item.

ALTERNATIVES/OPTIONS: N/A

FISCAL IMPACT: N/A

LEGAL REVIEW: N/A

ATTACHMENTS:

1. Letter from the applicant indicating the reason(s) for the tree removal permit request.
2. Specimen tree removal permit application.
3. Photographs of the specimen trees proposed for removal.
4. Photograph of approved signage onsite.
5. Project Tree Survey.

RECOMMENDATION: Move to recommend approval or denial of the requested permit for the removal of two (2) specimen trees on property proposed for development as Parkside at Woodlake, Ph. 2. The property is generally located south of Rembert Drive and west of Long Prairie Road.



February 18, 2016

Mr. James Hoefert
Town Of Flower Mound
2121 Cross Timbers
Flower Mound, Texas 75028

**Re: 2601 Rembert Drive
Tree Removal Permit**

Dear Mr. Hoefert:

Ridinger Associates, Inc. has prepared a Concept Plan with the Zoning Planned Development application for the proposed Parkside at Woodlake Phase 2 development at 2601 Rembert Drive, Flower Mound TX.

There are four specimen trees that are within the limits of this project. The lots have been laid out to be able to preserve two of the four specimen trees. However, Specimen Tree Nos. 13 & 24 as shown on the Parkside at Woodlake Phase 2 Tree Survey fall within the proposed building pads of the development and a Tree Removal permit is requested for the removal of Specimen Tree Nos. 13 & 24.

This project cannot reasonably be developed without removal of the trees included with this permit application.

We appreciate your consideration of our project and look forward to your favorable approval. Please call if you have any questions or comments.

Thank You,

A handwritten signature in blue ink, appearing to read 'Tracy A. LaPiene', is written over a faint circular stamp.

Mr. Tracy A. LaPiene, P.E.
Vice President

Town of Flower Mound
Application for:
TREE REMOVAL PERMIT

(Effective for Developments submitted 10/6/08 - present)

Check one: ☐ Protected Tree ☒ Specimen Tree ☐ Historic Tree

1. Applicant- Note: Must be a licensed Landscape Architect or Registered Arborist

Name: John St.Clair

Address: P.O. BOX 12519-0519
 Dallas, TX 75225

Phone: 214-394-3641

Applicant's Legal Interest in the Property:
 Landscape Architect

2. Property Owner(s)

Name(s): Delgado, Felipe & Belinda Rosas-

Address: 2601 Rembert Drive,
 Flower Mound, TX 75022

3. Location and Legal Description of Property:

2601 Rembert Drive,

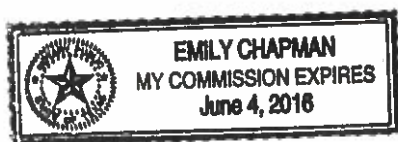
1.142 Acres in the John White Survey, Abstract No. 1341

Town of Flower Mound, Denton County, Texas

Page 2 of 3.

4. Owner's Authorization of Representation

I, Felipe Delgado, the owner of the above described real property, do hereby authorize John St. Clair to represent my interests and to file an Application for Tree Removal Permit for said real property, pursuant to the terms and provisions of Chapter 94 (Trees), of the Land Development Regulations of the Town of Flower Mound, Texas Code of Ordinances.



Felipe Delgado
Signature of Owner

Given Under My Hand and Seal of Office
This the 26 Day of Feb, 2016
Emily Chapman
Notary Public
In and For Denton County, Texas.

5. Applicants Affidavit- Note: Applicant must be a licensed Landscape Architect or Registered Arborist.

Subject to criminal penalties contained in Subpart B, the Land Development Regulations of the Town of Flower Mound, Texas Code of Ordinances, I John St. Clair, do hereby swear or affirm that all of the Information contained herein and submitted herein is, to the best of my knowledge, true, correct and complete and that no false, misleading or incomplete information has been intentionally provided or submitted with this Application for a Tree Removal Permit.

John St. Clair
Signature of Applicant

Landscape Architect License No. 2210
State of Licensure TEXAS
Or ISA Certified Arborist No. _____



701 267-5067-5

Given Under My Hand and Seal of Office
This the 18 Day of February, 2016
May A. Brandenburg
Notary Public
In and For Denton County, Texas

6. Received by Town of Flower Mound on (Date) 2/26/2016 by (initials) JRH.

Parkside at Woodlake Estates, Ph. 2 – Specimen trees proposed for removal

Tree #13 – 26" post oak



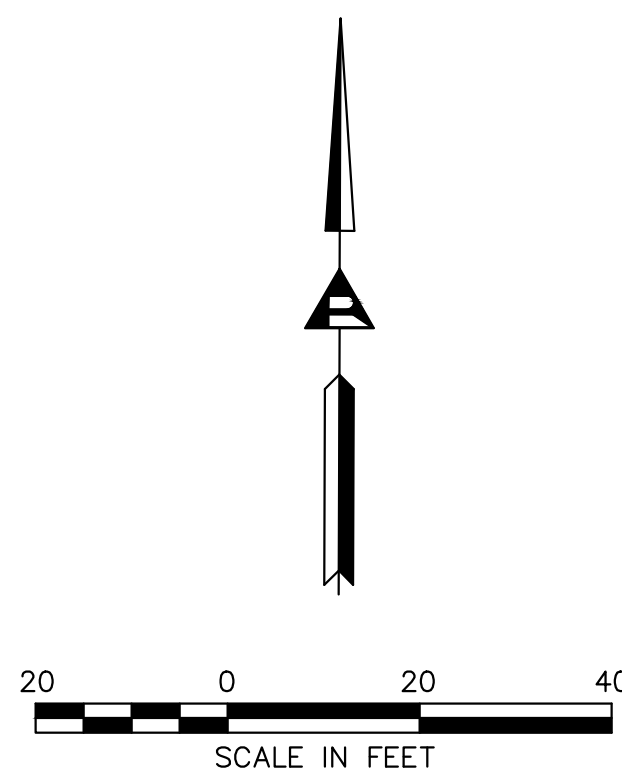
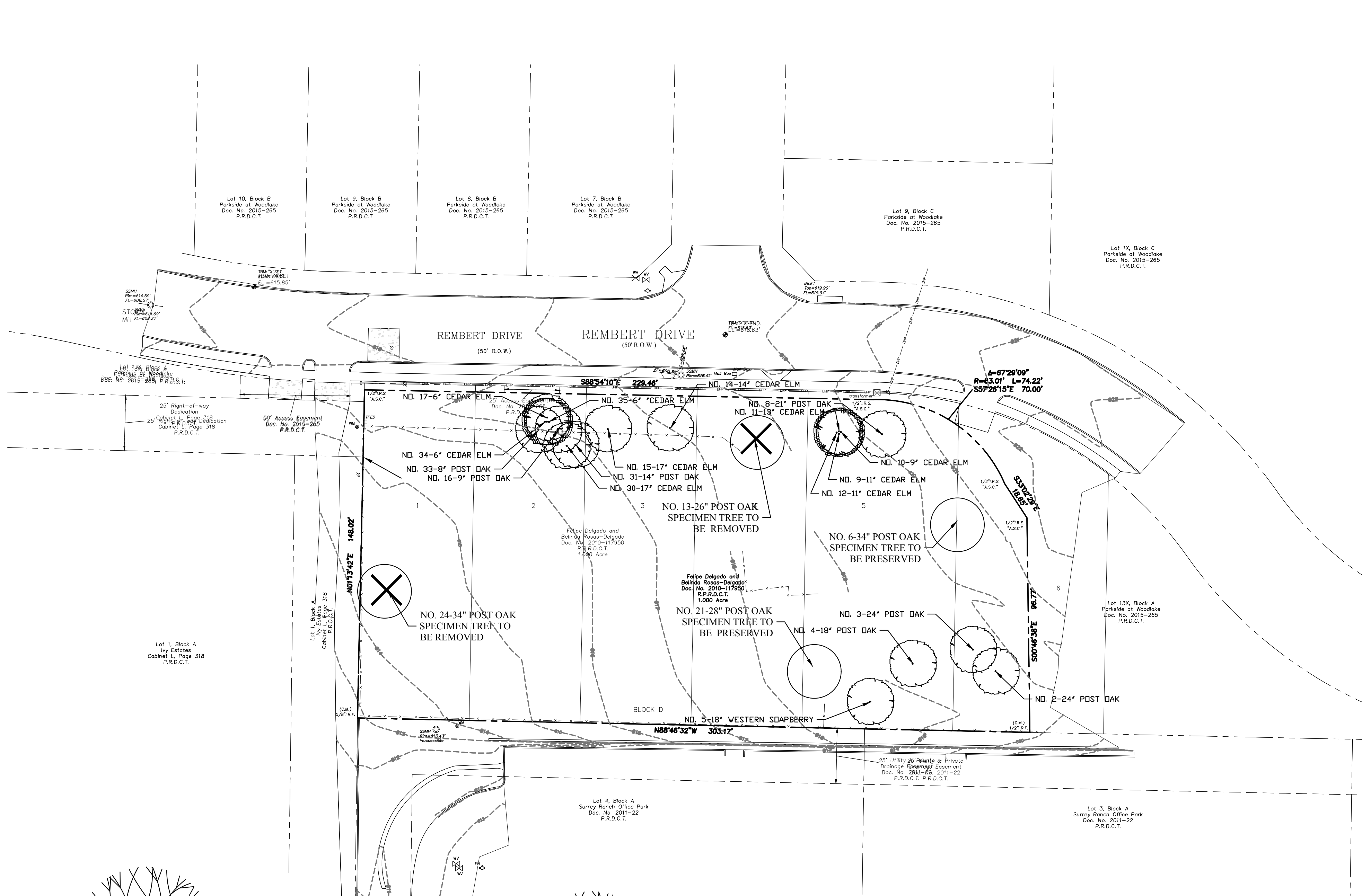
Tree #24 – 34" post oak



Tree Removal Request Signage

Along Rembert Drive





TREE NO.	DBH	COMMON NAME	BOTANICAL NAME	DESIGNATION	REMARKS	REMAIN / REMOVE
NO. 2	24"	Post Oak	Quercus stellata	Not Protected?	Damage at Trunk	
NO. 3	24"	Post Oak	Quercus stellata	Protected	Trunk Damaged	
NO. 4	18"	Post Oak	Quercus stellata	Protected	Encased in Concrete	
NO. 5	18"	Western Soapberry	Sapindus drummondii	Protected		
NO. 6	34"	Post Oak	Quercus stellata	Protected	Specimen Tree--Preserve	REMAIN
NO. 8	21"	Post Oak	Quercus stellata	Protected		
NO. 9	11"	Cedar Elm	Ulmus crassifolia	Protected		
NO. 10	9"	Cedar Elm	Ulmus crassifolia	Protected		
NO. 11	13"	Cedar Elm	Ulmus crassifolia	Protected		
NO. 12	11"	Cedar Elm	Ulmus crassifolia	Protected		
NO. 13	26"	Post Oak	Quercus stellata	Protected	Specimen Tree--REMOVE	REMOVE
NO. 14	14"	Cedar Elm	Ulmus crassifolia	Protected		
NO. 15	17"	Cedar Elm	Ulmus crassifolia	Protected		
NO. 16	9"	Post Oak	Quercus stellata	Protected		
NO. 17	6"	Cedar Elm	Ulmus crassifolia	Protected		
NO. 21	28"	Post Oak	Quercus stellata	Protected	Specimen Tree--Preserve	REMAIN
NO. 24	34"	Post Oak	Quercus stellata	Protected	Specimen Tree--REMOVE	REMOVE
NO. 30	17"	Cedar Elm	Ulmus crassifolia	Protected		
NO. 31	14"	Post Oak	Quercus stellata	Protected		
NO. 33	8"	Post Oak	Quercus stellata	Protected		
NO. 34	15"	Cedar Elm	Ulmus crassifolia	Protected		
NO. 35	6"	Cedar Elm	Ulmus crassifolia	Protected		

TREE PRESERVATION NOTES

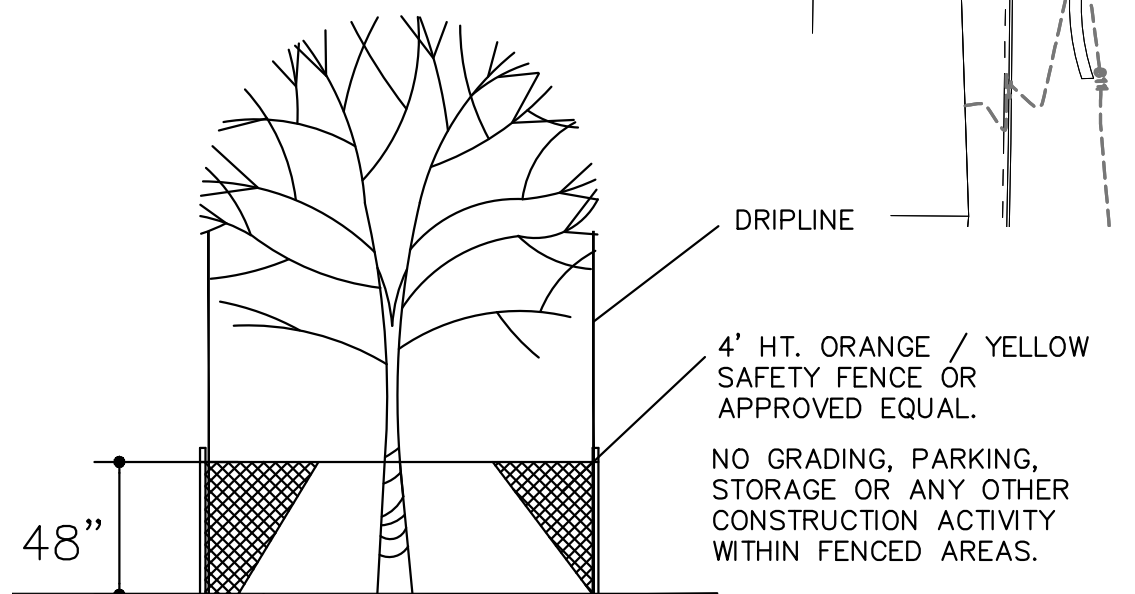
- CONTRACTOR AND DEVELOPER SHALL ADHERE TO THE FOLLOWING TREE PROTECTION MEASURES:
- PRIOR TO GRADING, BRUSH REMOVAL, OR CONSTRUCTION, THE DEVELOPER SHALL CLEARLY TAG OR MARK ALL TREES TO BE PRESERVED.
 - THE DEVELOPER SHALL ERECT A PLASTIC MESH FENCE A MINIMUM OF FOUR (4) FEET IN HEIGHT AROUND EACH TREE OR GROUP OF TREES TO PREVENT THE PLACEMENT OF DEBRIS OR FILL WITHIN THE DRIP LINE.
 - DURING THE CONSTRUCTION PHASE OF DEVELOPMENT, THE DEVELOPER SHALL PROHIBIT CLEANING, PARKING OR STORAGE OF EQUIPMENT OR MATERIALS UNDER THE CANOPY OF ANY TREE OR GROUP OF TREES BEING PRESERVED. THE DEVELOPER SHALL NOT ALLOW THE DISPOSAL OF ANY WASTE MATERIAL SUCH AS, BUT NOT LIMITED TO, PAINT, OIL SOLVENTS, ASPHALT, CONCRETE, MORTAR, ETC., IN THE CANOPY AREA.
 - NO ATTACHMENTS OR WIRES OF ANY KIND, OTHER THAN THOSE OF A PROTECTIVE NATURE, SHALL BE ATTACHED TO ANY TREE.
 - NO FILL OR EXCAVATION MAY OCCUR WITHIN THE DRIP LINE OF A TREE TO BE PRESERVED UNLESS THERE IS A SPECIFIC APPROVED PLAN FOR USE OF TREE WELLS OR RETAINING WALLS. MAJOR CHANGES OF GRADE (SIX (6) INCHES OR GREATER) WILL REQUIRE ADDITIONAL MEASURES TO MAINTAIN PROPER OXYGEN AND WATER EXCHANGE WITH THE ROOTS. IN ADDITION, THE DEVELOPER SHOULD ADHERE TO THE FOLLOWING GUIDELINES TO PROTECT THE TREES TO BE PRESERVED:
 - WITH MAJOR GRADE CHANGES, A REINFORCED RETAINING WALL OR TREE WELL OF A DESIGN APPROVED BY THE CITY SHOULD BE CONSTRUCTED AROUND THE TREE NO CLOSER THAN HALF THE DISTANCE BETWEEN THE TRUNK AND THE DRIP LINE. THE RETAINING WALL SHOULD BE CONSTRUCTED SO AS TO MAINTAIN THE EXISTING GRADES AROUND A TREE OR GROUP OF TREES.
 - AT NO TIME SHOULD A WALL, PAVEMENT OR POROUS PAVEMENT BE PLACED CLOSER THAN FIVE (5) FEET OR ONE (1) FOOT FOR EVERY TWO (2) INCHES IN CALIPER, WHICHEVER IS GREATER, TO THE TRUNK OF THE TREE.
 - ROOT PRUNING MAY BE NECESSARY WHEN THE CRITICAL ROOT ZONE IS TO BE DISTURBED.
 - IF A PATIO, SIDEWALK, DRIVE, PARKING LOT, OR OTHER PAVED SURFACE MUST BE PLACED WITHIN THE DRIP LINE OF AN EXISTING TREE, MATERIAL SUCH AS A POROUS PAVEMENT OR OTHER APPROVED CONSTRUCTION METHOD THAT WILL ALLOW THE PASSAGE OF WATER AND OXYGEN MAY BE REQUIRED.

TREE MITIGATION

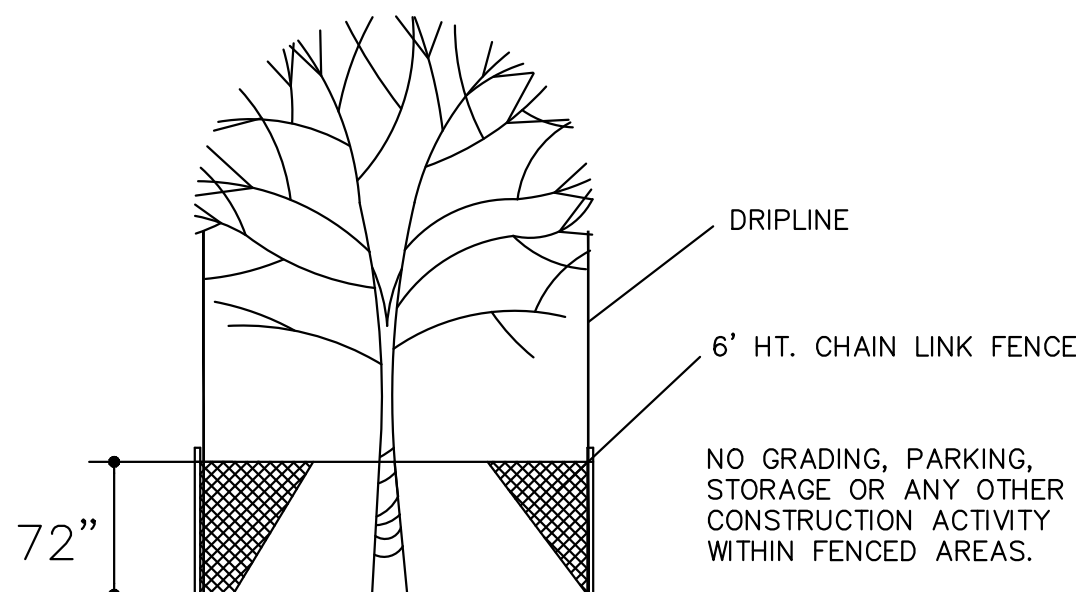
DEVELOPER WILL PAY ALL REQUIRED MITIGATION FEES AS REQUIRED BE THE TOWN OF FLOWER MOUND TEXAS 60 CALIPER INCHES 60X2/3=40 MITIGATION TREES 40 MITIGATION TREES X \$375= \$15,000 PAYABLE TO THE TOWN OF FLOWER MOUND FOR TREE MITIGATION.

LEGEND

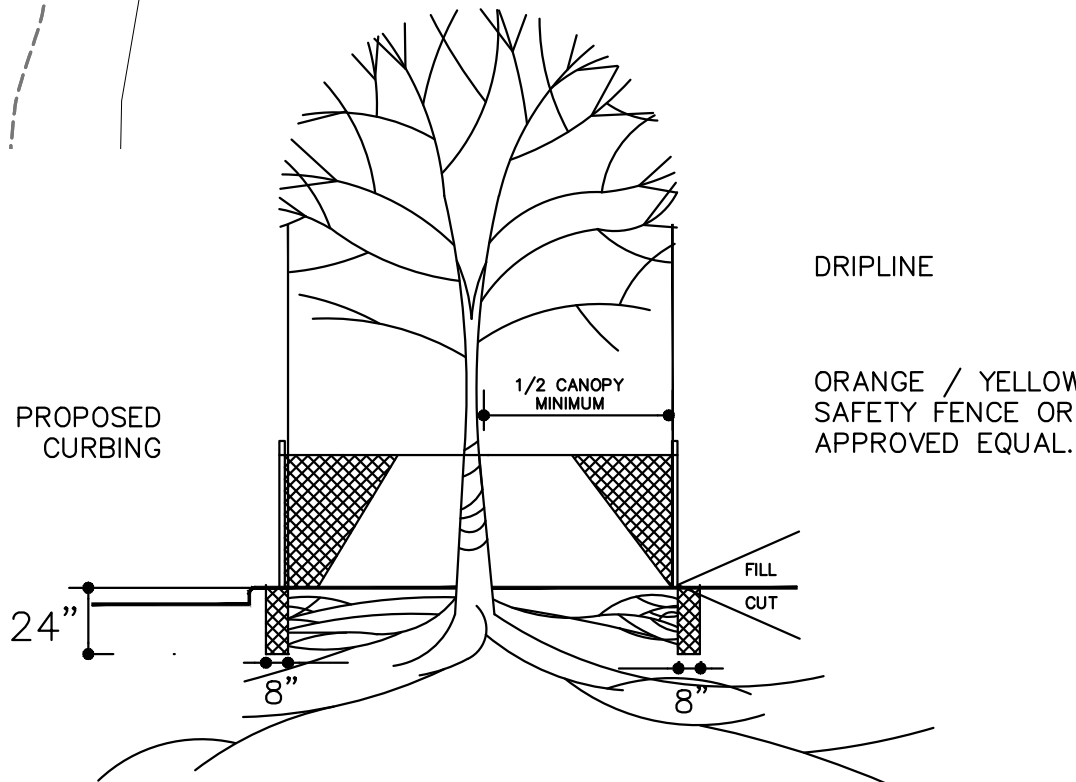
- Specimen Tree to be Removed
- Specimen Tree to be Preserved
- Protected Tree



MINIMUM TREE PROTECTION- PROTECTED TREES
N.T.S.



MINIMUM TREE PROTECTION- SPECIMEN TREES
N.T.S.



- HAND DIG TRENCH (NO MECHANICAL TRENCHES)
- CUT ROOTS WITH A SHARP TOOL
- BACKFILL WITH EXISTING SOIL
- PERFORM ROOT PRUNING A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION

ROOT PRUNING DETAIL
N.T.S.



ENVIRONMENTAL CONSERVATION COMMISSION AGENDA ITEM NO. 4

WORK SESSION ITEM

DATE: March 1, 2016

FROM: Matthew Woods, Director of Environmental Services

ITEM: Discuss the sustainability initiatives and priorities for 2016.

BACKGROUND INFORMATION: This work session item provides the ECC the opportunity to discuss feedback received from the February Town Council joint work session related to the sustainability initiatives, and review the current target dates and priorities. The original objectives of the initiatives were to focus primarily on programs to promote efficient practices at Town facilities, enhance environmental education opportunities, and develop policies to preserve and/or restore unique environmental features in the Town.

Following is a summary and status update for each initiative:

- 1. Conduct a Town-wide tree canopy analysis** – The tree canopy analysis will enable the ECC and staff to compare the approximate Town-wide canopy growth or loss over time and review policies and practices related to canopy protection and growth. The Town recently purchased Feature Analyst software to more effectively assess the Town's canopy. The most recent assessment utilizing the 2014 National Agriculture Imagery Program (NAIP) data resulted in approximate Town-wide canopy coverage of 27%. *Status: Completed 2014 data analysis; ongoing process on a proposed 2-year cycle.*
- 2. Conduct a review of the Tree Ordinance mitigation requirements (A comprehensive review of the Tree Ordinance was added to this initiative in 2015)** – The ECC recommended the removal of the exception clause for mitigation requirements within the Lakeside Business District, Denton Creek District, and SPAs. Town Council adopted an amendment to the Tree Ordinance on July 20, 2015, to remove the exception clause. Non-residential development projects are now required to meet the mitigation requirements for the removal of protected and specimen trees. The ECC also began conducting a comprehensive review of the Tree Ordinance in the fall of 2015. Recommendations were recently discussed with the Town Council at the February 18 joint work session. *Status: Completed mitigation exception review; ongoing review of the Tree Ordinance.*
- 3. Evaluate options to enhance Town-wide recycling; including LISD and multifamily options** – The ECC members have recognized that the Town's recycling efforts recently have been effective for single-family residential recycling rates; however, the members identified that the commercial, educational/LISD, and multi-family properties either do not have the same options or there may be some limiting factors that affect their ability to recycle. The Town is currently in the review process for companies submitting bids for the next 5-year waste and recycling agreement. ECC provided recommendations to add "green waste" diversion to the next contract in addition to a review of other recycling options. *Status: Contract submittal and review process initiated in January; ongoing.*
- 4. Implement reduced energy use practices in Town facilities** – This initiative could function as a component of the energy audit initiative, if approved and conducted, or as a separate program and practice to institute measures to further reduced energy consumption at public facilities. *Status: Ongoing.*
- 5. Determine the feasibility for an Energy Audit for Town Facilities** – The Town conducted an energy audit of selected facilities and will implement a recommended upgrade at the wastewater treatment plant. Other items recommended from the audit may be considered as part of the 2016-2017 Budget. *Status: Audit conducted of selected facilities; ongoing but dependent upon budget.*
- 6. Enhance Stormwater Management Program educational material** – Enhancing the current educational and promotional aspects of the Town's Stormwater Management Program (SWMP) would help meet the objectives proposed within the new five-year SWMP. This initiative would result in additional resources being dedicated to creating FMTV spots and enhanced webpages, educational programs and presentations, and an increase in the amount of information

disseminated through utility bill inserts and other formats for stormwater-related education. *Status: Ongoing initiative through the SWMP.*

7. **Promote and conduct environmental classes and programs.** – The ECC would be actively involved with this initiative to increase the number of educational classes held at the Library and at other appropriate sites within the Town. Town resources would also be utilized to promote and conduct additional environmental programs. Some classes and programs are already being conducted by staff, so this initiative would result in additional review and participation by ECC members, as well as new educational classes dedicated to a variety of topics that could positively impact residents. *Status: Combined initiatives relative to environmental education; ongoing.*
8. **Promote and adopt enhanced drought tolerant landscaping practices at Town facilities** – This initiative incorporates a drought tolerant landscaping standard for new Town projects and requires the inclusion of drought tolerant landscaping options during the project review process. In addition to new projects, it is proposed that landscaping revisions to existing Town facilities include drought tolerant landscaping components when landscaping is replaced. Promotion and education of drought tolerant landscaping is an additional component of this initiative. The Town has recently included such practices at the Senior Center and Operations and Maintenance Facility, so this initiative would be improving upon or enhancing a recent practice. *Status: Proposed landscaping list discussed and recommended for approval by ECC; ongoing for Town projects.*
9. **Identify undeveloped land for preservation opportunities** – This purpose of this initiative is to have Town staff identify desirable environmental habitat on undeveloped parcels through the development review process with the objective of potential preservation through a third party land trust, cluster development, or other preservation method. The ECC would have a role in reviewing the tracts of land associated with a Conservation or Cluster Development application. *Status: This initiative was amended and became a component of the development application process; opportunity to involve ECC more during the process of habitat/site review.*
10. **Establish a program to manage small natural areas for preservation** – This initiative may help address smaller parcels of land that have unique environmental features or habitat but do not meet the criteria necessary for preservation by a third party land trust. There have been development projects with smaller areas of upland habitat, ponds, and/or open space that were too small in size to be included as part of a conservation easement. This initiative would require the Town to either establish a mechanism to accept and manage these smaller tracts during the development process or work directly with a not-for-profit organization capable of managing small tracts of land. *Status: This initiative needs to be reviewed to determine if it's still a priority due to recent interest from an additional third party/conservancy to address habitat preservation.*
11. **Include LEED guided design principles for new Town projects** – This initiative was proposed to promote a “lead by example” approach to the planning and construction of new Town projects. The ECC proposed that new Town projects, and possibly renovations, would review the LEED guided design principles as part of the planning process for new Town projects. This was not proposed to be a mandatory requirement, but would function as a tool for the Town to obtain bids and design proposals that would be energy efficient and incorporate LEED principles. *Status: Not initiated.*

ALTERNATIVES/OPTIONS:

N/A

ATTACHMENTS:

1. 2016 Sustainability Initiatives

RECOMMENDATION: This item is for discussion purposes; therefore, no formal action is required.

Sustainability Initiatives 2016							
Priority Rank	Initiative	Performance Measure	Target Date	Status	ECC Member(s)	Notes	Last Update
1	Conduct a Town-wide tree canopy analysis	Complete analysis & submit results to the ECC	12/1/2015 (2 yr review cycle)	Analysis submitted	Alton Bowman	Acquired additional software to conduct the analysis. 2014 NAIP aerial data analysis = ~27% canopy coverage.	02/02/2016
2	Conduct a review of the Tree Ordinance mitigation requirements (*added recent comprehensive review)	Discuss & submit recommendation for proposed amendments to Town Council	02/01/2016	Partial Completion	Alton Bowman	(ECC recommended approval to remove the mitigation exception clause 7/2015; Town Council adoption on 7/20/2015.) *ECC began conducting a comprehensive review of the ordinance in the fall/winter of 2015. Recommendations went before Town Council at the February 18 joint work session. Additional review requested.	02/18/2016
3	Evaluate options to enhance Town-wide recycling; LISD and multifamily	Recommend options to amend waste services contract	09/30/2015	Under Review	Marilyn Lawson, Ellen Stallcup, & James Gerber	Contracts for waste/recycling services are currently under review.	01/05/2016
4	Implement reduced energy use practices in Town facilities				_____	Review of practical options to reduce energy consumption at town facilities	04/07/2015
5	Determine the feasibility for an Energy Audit for Town Facilities	Conduct an audit of __ facilities		Initiated	_____	Preliminary audit conducted of some facilities; WWTP proposed for additional assessment/upgrades depending on cost.	04/07/2015
6	Enhance the Stormwater Management Program educational material	Create FMTV spots, use social media, distribute educational material...	04/05/2016	Initiated	Russ McNamer & Jim Cumbest	Stormwater impact messaging distributed through utility billing and various HOA newsletters.	01/01/2016
7	Promote and conduct environmental classes at the Library and on-site locations	Work with Library Services for scheduling	06/30/2015	Initiated	Jim Cumbest, _____, _____	Maintaining A Healthy Tree In An Urban Environment" at the Library on March 2, 2015. Educational series upcoming at the Library; beginning 2/20/16.	03/02/2015
	Promote and adopt drought tolerant landscaping practices at Town facilities	Develop & adopt approved landscaping list	4/5/2016	Initiated	Marilyn Lawson & James Gerber	Town provided Native and Adaptive list at the February 2015 ECC meeting. Installation of native landscaping at Senior Center & O&M facilities completed.	04/07/2015
	Utilize Town resources to promote and conduct more environmental programs	Hold __ events; promote __ events...		Initiated	Jim Cumbest, Elaine Takacs, _____	New tree giveaway program conducted in conjunction with Arbor Day 11/6/15. Master Garden's Assoc. Garden Fest October 2015. KFMB Trash-off & Environmental Fair/Town booths 9/26/15.	11/06/2015
	Identify undeveloped land for preservation opportunities	Identify ESAs on development application projects; __ acres preserved.		Initiated	Russ McNamer	Preservation opportunities are currently occurring through the development application review process.	11/02/2015
	Establish a program to manage small natural areas for preservation	Conduct research on 501c3 options			Russ McNamer & _____	Evaluation needed of effectiveness of current conservation organizations and cluster development model.	04/07/2015
	Include LEED guided design principles for new Town projects				_____	Discussion included a need to review current adopted energy codes; enhanced mandatory codes may effectively address current goals.	01/06/2015