

**AGENDA**

**TOWN OF FLOWER MOUND  
ENVIRONMENTAL CONSERVATION COMMISSION REGULAR MEETING**

**February 7, 2017**

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

**6:30 P.M.**

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AN AGENDA INFORMATION PACKET IS AVAILABLE ONLINE AT  
[HTTPS://TX-FLOWERMOUND.CIVICPLUS.COM/AGENDACENTER](https://tx-flowermound.civicplus.com/agendacenter)  
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**A. CALL REGULAR MEETING TO ORDER – 6:30 PM**

**B. INVOCATION AND PLEDGE OF ALLEGIANCE**

**C. 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.

**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 A member of the Environmental Conservation Commission may request an item(s) be withdrawn from the consent agenda and moved to regular agenda for discussion by making such request prior to a motion and vote on the Consent Agenda.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 January 3, 2017.

**F. ADJOURNMENT- REGULAR SESSION**

**G. CALL WORK SESSION TO ORDER**

**Environmental Conservation Commission Meeting Agenda**

**February 7, 2017**

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**H. WORK SESSION ITEMS**

2. Receive an update on the Town's Texas Stream Team program.
3. Discuss the sustainability initiatives and provide updates.

**I. COORDINATION OF FUTURE AGENDAS/MEETINGS**

**J. ADJOURNMENT – WORK SESSION**



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**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 3, 2017, by 5:00 p.m., at least 72 hours prior to the schedule time of said meeting.



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**Emily Chapman**  
**Administrative Assistant**



## ENVIRONMENTAL CONSERVATION COMMISSION AGENDA ITEM NO. 1

### CONSENT ITEM

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**DATE:** February 7, 2017

**FROM:** Emily Chapman, Administrative Assistant

**ITEM:** Consider approval of minutes from the regular meeting of the Environmental Conservation Commission held on January 3, 2017.

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**BACKGROUND INFORMATION:** This agenda item is to consider approval of the minutes from the January 3, 2017, 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 January 3, 2017, regular meeting of the Environmental Conservation Commission.

**RECOMMENDATION:** Move to approve the minutes from the January 3, 2017, regular meeting of the Environmental Conservation Commission.

FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION MEETING OF JANUARY 3, 2017

**THE FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION MEETING HELD ON THE 3RD DAY OF JANUARY 2017, 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                  |
| Michael Lamminen | Commission Member, Place 2  |
| Marilyn Lawson   | Commission Member, Place 4  |
| Thomas Bailey    | Commission Member, Place 6  |
| James Gerber     | Commission Member, Place 7  |
| Elaine Takacs    | Commission Member, Place 8  |
| Karen Kroesen    | Commission Member, Place 9  |
| James Seastrom   | Commission Member, Place 10 |

Constituting a quorum with the following members absent:

|              |                            |
|--------------|----------------------------|
| Alton Bowman | Commission Member, Place 5 |
|--------------|----------------------------|

*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       |
| Misty Adams   | Environmental Programs Coordinator |

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

**B. CITIZENS/VISITORS COMMENTS**

Leanne Edwards- 5808 Naples Drive, Flower Mound

Marvin Blow - 3617 Capri Lane, Flower Mound

**C. INVOCATION AND PLEDGE OF ALLEGIANCE**

**D. PRESENTATION**

**1. Presentation from Mitigation Futures Conservancy.**

FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION MEETING OF JANUARY 3, 2017

**E. STAFF REPORT**

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

**F. CONSENT AGENDA**

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

**Commission Deliberation**

Vice Chair McNamer made a motion to approve the November 1, 2016, minutes as presented. Commission Member Lawson seconded the motion.

**VOTE ON THE MOTION**

**AYES: Gerber, Lawson, McNamer, Lamminen, Bailey, 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 Estancia Estates. The property is generally located at the southeast corner of Dixon Lane and Chinn Chapel Road.**

**Staff Presenter**

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

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

Will Swerdlow, Environs Group (111 Hillside Drive, Lewisville, TX 75057), gave a presentation with the following items included:

- Letter of Intent
- Site Development Plan

## FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION MEETING OF JANUARY 3, 2017

- Tree Survey
- Photo of Tree Proposed for Removal
- Tree Survey with Aerial

Ron Stewart, Environs Group (111 Hillside Drive, Lewisville, TX 75057), answered questions regarding the item.

### Commission Deliberation

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 Estancia Estates. The property is generally located at the southeast corner of Dixon Lane and Chinn Chapel Road. Commission Member Lamminen seconded the motion.

### VOTE ON THE MOTION

**AYES:** Gerber, Lawson, McNamer, Lamminen  
**NAYS:** Takacs, Bailey  
**ABSTAIN:** None

The motion passed with a vote of 4-2-0

3. Consider an application for a tree removal permit for four (4) specimen trees on property proposed for development as Canyon Falls – Village 10B. The property is generally located north of Canyon Falls Drive and east of Prairie Ridge Road.

### Staff Presenter

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

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

Tom Dayton, J. Volk Consulting (830 Central Parkway E, #300, Plano, TX 75074), gave a presentation with the following items included:

- Canyon Falls Overall Site Plan

Bob Ditthardt, Newland Communities (4835 LBJ Freeway, Suite 475, Dallas, TX 75244), answered questions regarding the item.

### Commission Deliberation

FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION MEETING OF JANUARY 3, 2017

Vice Chair McNamer made a motion to approve the application for a tree removal permit for four (4) specimen trees on property proposed for development as Canyon Falls – Village 10B. The property is generally located north of Canyon Falls Drive and east of Prairie Ridge Road. Commission Member Gerber seconded the motion.

**VOTE ON THE MOTION**

**AYES: Gerber, Lawson, McNamer, Lamminen, Bailey, Takacs**  
**NAYS: None**  
**ABSTAIN: None**

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

- 4. Consider an application for a tree removal permit for five (5) specimen trees on property proposed for development as Hillside of Flower Mound. The property is generally located south of Cross Timbers Road and west of Shiloh Road.**

**Staff Presenter**

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

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

Reginald Rembert, Rembert Enterprises, Inc. (3625 Bonanza Lane, Flower Mound, TX 75022), answered question regarding the project.

**Commission Deliberation**

Vice Chair McNamer made a motion to approve the application for a tree removal permit for five (5) specimen trees on property proposed for development as Hillside of Flower Mound. The property is generally located south of Cross Timbers Road and west of Shiloh Road. Commission Member Lamminen seconded the motion.

**VOTE ON THE MOTION**

**AYES: Gerber, Lawson, McNamer, Lamminen, Bailey, Takacs**  
**NAYS: None**  
**ABSTAIN: None**

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

FLOWER MOUND ENVIRONMENTAL CONSERVATION COMMISSION MEETING OF JANUARY 3, 2017

H. ADJOURNMENT – REGULAR SESSION 8:06 P.M.

I. CALL WORK SESSION TO ORDER

J. WORK SESSION ITEMS

5. Discuss the sustainability initiatives and provide updates.

K. COORDINATION OF FUTURE AGENDAS/MEETINGS

L. ADJOURNMENT – WORK SESSION 8:46 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

### WORK SESSION ITEM

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**DATE:** February 7, 2017

**FROM:** Quintin Carey, Environmental Review Analyst

**ITEM:** Receive an update on the Town's Texas Stream Team program.

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#### **BACKGROUND INFORMATION:**

The state of Texas has over 191,000 miles of valuable waterways that are in need of preservation. The task of continuously monitoring such a vast network of waterways is a job that is too large and too costly for government agencies to properly address. The need for help with monitoring our state's most valuable resource led to the formation of Texas Watch, which is now called the Texas Stream Team (TST).

The Texas Stream Team is a voluntary group of citizen scientists which seek to protect our state's water resources. The TST was founded in 1991 and is a collaboration between Texas State University, the Texas Commission on Environmental Quality, and the Environmental Protection Agency. Aside from the previously mentioned organizations, the main body of work for the TST comes primarily from voluntary efforts from groups such as the Town of Flower Mound.

Since 2012 our TST citizen scientist program has sought to preserve our Town's waterways. Once per month our trained volunteers conduct water quality monitoring at 7 different locations within the Town. The volunteers then submit their sampling results to a database maintained by The Meadows Center at Texas State University. The data is then reviewed for abnormalities that may help to identify sources that could potentially impact the health of our Town's waterways. The database is also used to assist in the ongoing conservation of our local water resources.

**CITIZEN FEEDBACK:** N/A

**ALTERNATIVES/OPTIONS:** N/A

**LEGAL REVIEW:** N/A

**ATTACHMENTS:** N/A

**RECOMMENDATION:** This item is for information and discussion purposes only. No action is required.



## ENVIRONMENTAL CONSERVATION COMMISSION AGENDA ITEM NO. 3

### WORK SESSION ITEM

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**DATE:** February 7, 2017  
**FROM:** Misty Adams, Environmental Programs Coordinator  
**ITEM:** Discuss the sustainability initiatives and provide updates.

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**BACKGROUND INFORMATION:** This work session item provides the ECC the opportunity to continue the discussion of the sustainability initiatives, review any updates, and develop a summary for the February joint work session with Town Council. Staff will provide the Commission with the current status of the following prioritized list of initiatives.

- 1. Evaluate options to enhance Town-wide recycling and waste management practices; 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 approved Republic Waste Services as the residential/commercial waste and residential recycling provider for the next 5-year cycle. ECC members indicated a desire to initiate a review and an assessment of multi-family recycling options. In addition ECC members indicated a desire to add green waste diversion to Republics contact as part of this initiative.

*Status: Ongoing. The Town approved the new waste/recycling services contract with Republic Services; effective 10/1/16. Recycling options can continue to be evaluated. The 2015 – 2016 FY report from Waste Management has been provided to the Commission. An update from Republic will be requested in the future. ECC members and staff will begin reviewing multi-family recycling options.*

- 2. Enhance Stormwater Management Program (SWMP) 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. Stormwater educational items have included the second grade environmental education program, middle school events, fall and spring trash off and environmental fairs, FMTV spots, and three utility bill inserts.*

- 3. 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. Promoting and expanding the opportunities associated with the Town’s volunteer Stream Team could also be a component of this initiative. With the addition of the new Tree Farm at Green Acres Farm Memorial park, ECC members recommend additional education programming to be held there. In addition, ECC

requested staff to evaluate access options to the current Outdoor Learning Area (OLA) to utilize in 2017 and beyond.

*Status: Ongoing. Multiple tree education classes have been conducted in 2016. Opportunities for new classes/programs include expanding environmental education with a 3<sup>d</sup> and 7<sup>h</sup> grade curriculum, High School curriculum, and other areas of ECC member interest for classes and community programs. Staff is also pursuing opportunities to increase involvement in the Stream Team program.*

- 4. 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: Ongoing. The proposed landscaping list was recommended for approval by ECC. The continued implementation of drought tolerant landscaping for Town projects is recommended. Drought tolerant landscaping practices will be recommended for the new Town Hall project and other new Town facilities.*

- 5. Establish an Arboretum** – ECC added this new initiative to evaluate the potential addition and location of an Arboretum. Establishing an Arboretum in the future would be an addition to the Town's educational initiatives related to trees. This initiative includes updating the acorns to oaks program to potentially utilize post oak seedlings instead of acorns.

*Status: Under Review. This initiative needs to be reviewed to determine a viable location, program options, and review from additional Town Boards/Commissions.*

- 6. Energy conservation** – This initiative includes implementing energy saving practices at Town facilities and potentially utilizing recommendations from a prior energy audit and potential future energy audits. The previously recommended implementation of LEED guided design principles for new Town facilities or enhancements for existing Town facilities may also be included within this initiative.

*Status: Ongoing. Town Staff/Departmental Responsibility; initiated and ongoing.*

- 7. 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 Initial Assessment. The 2014 data analysis has been completed. The canopy analysis is an ongoing process on a proposed 2-year cycle. The next assessment is scheduled for early 2017 to analyze new 2016 aerial data.*

- 8. 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, and provided recommended amendments for Town Council consideration in November 2016.

*Status: **Completed.** The amendments to Ch. 94 "Trees" were considered by the Town Council at the November 21, 2016, Town Council meeting. The Town Council approved the general ordinance amendments including a specimen post oak size reduction to 22 inches and the preservation incentive provisions. The Town Council denied the proposed amendment to allow specimen tree removal permits to be approved administratively.*

- **Establish a program to manage small natural areas for preservation** – This initiative was initially intended to 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 have required 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: **Removed.** This initiative was removed due to recent interest from an additional third party/conservancy which may effectively address habitat preservation of smaller tracts of land in addition to the Cluster Development option for residential projects in the Cross Timbers Conservation Development District which also provides a development tool to potentially preserve smaller areas of desirable habitat.*

The Town Council requested that the ECC provide an update on the sustainability initiatives at the joint work session scheduled for February 16, 2017.

**ALTERNATIVES/OPTIONS:**














N/A



**ATTACHMENTS:**

1. ECC Sustainability Initiatives 2016 - 2017

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

## ECC Sustainability Initiatives 2016 - 2017

| Priority Rank                       | Initiative   | Performance Measure  | Notes   |
|-------------------------------------|--|--|---|
| 1                                   | Evaluate options to enhance Town-wide recycling; including LISD and multifamily options  | <ul style="list-style-type: none"> <li> Town-wide Recycling - Multi-family recycling option assessment</li> <li> Waste Reduction at Town facilities</li> <li> Green Waste option review</li> </ul>  | <p>The Town approved the new waste/recycling services contract with Republic Services; effective 10/1/16. Recycling options can continue to be evaluated. An update from Republic will be requested in the future.</p> <p>1/3/17 - The ECC discussed a desire to review options to add green waste diversion to the Republic contract &amp; assess multi-family recycling options.</p>  |
| 2                                   | Enhance Stormwater Management Program educational material   | <ul style="list-style-type: none"> <li> Create FMTV spots, use social media, distribute educational material</li> </ul>   | Ongoing initiative through the SWMP. Stormwater educational items have included the second grade environmental education program, fall and spring trash off and environmental fairs, FMTV spots, and three utility bill inserts.  |
| 3                                   | Promote and conduct environmental classes and programs   | <ul style="list-style-type: none"> <li> Conduct Stormwater and Stream Team classes at the Library</li> <li> Utilize Town resources to promote and conduct more environmental programs</li> <li> Utilize New Tree Farm to conduct educational programs</li> <li> Utilize the Outdoor Learning Area (OLA) for educational events/programs</li> </ul> | <p>Multiple tree education classes have been conducted in 2016.</p> <p>Opportunities for new classes/programs include expanding environmental education with a 7th grade curriculum, High School curriculum, and other areas of ECC member interest for classes and community programs.</p> <p>1/3/17 - ECC added new performance measure to add and track educational programs to the new tree farm location at Green Acres Memorial Park</p> <p>1/3/17 - ECC requested staff to evaluate access options to the current OLA to utilize the area in 2017 &amp; beyond. Access is currently limited and future trail connectivity may not be possible.</p> |
| 4                                   | Promote and adopt enhanced drought tolerant landscaping practices at Town  | <ul style="list-style-type: none"> <li> Drought Tolerant landscape practices at Town Facility</li> <li> Water conservation material distributed through water bill. Conservation Classes.</li> <li><input checked="" type="checkbox"/> Review recommended planting list</li> </ul>   | <p>The proposed landscaping list was recommended for approval by ECC; initiated and ongoing for Town projects. The continued implementation of drought tolerant landscaping for Town projects is recommended.</p> <p>Planting list was discussed and approved by ECC.</p>   |
| 5                                   | Establish an Arboretum   | <ul style="list-style-type: none"> <li> Review and discuss options for an Arboretum</li> </ul>  | 1/3/17 - ECC added a new Initiative to evaluate the potential addition and location of an Arboretum. Staff to work with Boards/Commissions  |
| 6                                   | Energy conservation  | <ul style="list-style-type: none"> <li> Include LEED guided design principles for new Town projects</li> <li> Implement reduced energy use practices in Town facilities</li> <li><input checked="" type="checkbox"/> Conduct an energy audit of Town Facilities</li> </ul>   | <p>Town Staff/Departmental Responsibility; initiated and ongoing.</p> <p>Preliminary energy audit completed; future audits and implementation dependent upon Budget.</p>  |
| 7                                   | Conduct a Town-wide tree canopy analysis   | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Town-wide tree canopy analysis completed</li> </ul>   | Completed 2014 data analysis; ongoing process on a proposed 2-year cycle. The next assessment is scheduled for early 2017 to analyze new 2016 aerial data.  |
| <input checked="" type="checkbox"/> | Conduct a review of the Tree Ordinance mitigation requirements (A comprehensive review of the Tree Ordinance was added to this initiative in 2015) | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Mitigation Exception</li> <li><input checked="" type="checkbox"/> Tree Ordinance Review</li> </ul>  | <p>Completed mitigation exception review.</p> <p>The post oak specimen size reduction and incentives were approved, and the administrative approval amendment for specimen tree permits was denied at the 11-21-16 Town Council meeting.</p>  |

|   |
|---|
| <input checked="" type="checkbox"/> Completed Initiatives   |
|  Ongoing Initiatives       |
|  Town/Departmental Ongoing |