

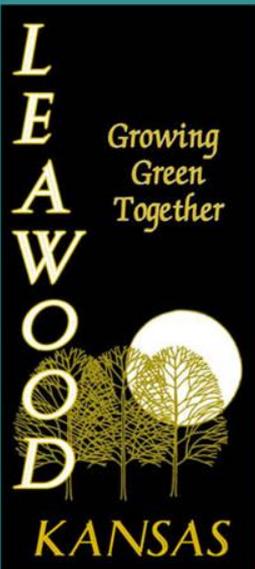
# 6th Annual Home Owners Association Meeting

February 27, 2014

presented by the  
Leawood Sustainability Advisory Board

## Mission Statement

To lead, motivate, and collaborate with Leawood citizens to increase recycling, encourage conservation, and promote 'green' mobility options in the City of Leawood.





**Welcome!**  
**Mayor Peggy Dunn**



HOEFER WYSOCKI  
*Architecture*



*City of Leawood*

LEAWOOD COMMUNITY DEVELOPMENT  
135TH STREET CORRIDOR

LEAWOOD CULTURAL ARTS

THE LEAWOOD FOUNDATION

LEAWOOD INFORMATION SERVICES  
HOA LOOKUP/UPDATE

LEAWOOD PARKS & RECREATION  
RAIN GARDENS & URBAN FORESTRY  
BICYCLE FRIENDLY COMMITTEE

LEAWOOD PUBLIC WORKS

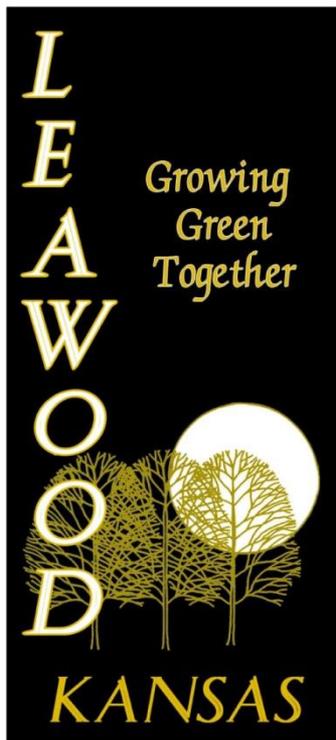


rippleglass



# SUSTAINABILITY ADVISORY BOARD

“Our mission is to **lead, motivate, and collaborate** with Leawood citizens to increase recycling, encourage conservation, and promote ‘**green**’ mobility options in the **City of Leawood.**”



The Green Citizen Initiative Task Force became a permanent committee in 2010.

## **YOUR GREEN TEAM ...**

9 Task Force Members - alternating 2 year terms  
1 Honorary Member and 2 Council Members

# Introducing your 'Green Team' Leawood Sustainability Advisory Board



**Debra Filla, Chair**  
Council Member  
Ward 1



**Alicia Jennings**  
• Safe Routes  
• Bike/Walk to School



**Jim Potter**  
• Recycling



**Julie Cain, Vice Chair**  
Council Member  
Ward 4



**Gareth Matthews**  
• School Outreach  
• Energy Conservation



**Mike Schaadt**  
• Stream Team



**Martha Conradt**  
• PR, Newsletter  
• Website, Media



**Scott Pashia**  
• Education



**Chris Schultz**  
• Project Manager  
• Marketing, Promoting



**Mike Gillaspie**  
• Energy Conservation



**Bob Pierson**  
• Waste Management  
• Recycling

**Kevin Jeffries, Honorary Member**  
• President & CEO,  
Leawood Chamber of Commerce

## **Staff Liaisons**

- Chris Claxton, Director of Parks & Recreation
- Brian Anderson, Parks Superintendent
- Marica Putman, Adm. Graphics Tech

# How Low Can You Go?

To lower the use of water, gasoline and electricity, and reduce trash to the landfill?



# AGENDA

- 5:00 HOA Round Table - Emerald Ash Borer
- 5:30 Check-in ~ Bar Opens ~ Visit Vendor Tables
- 6:00 Buffet Opens
- 6:15 Welcome Mayor Dunn
- Sustainability ~ What's It All About? Debra Filla
- Recycling
- Green Mobility
- Bike/Pedestrian Master Plan Brian Anderson
- Parks & Recreation Master Plan Chris Claxton
- 135<sup>th</sup> Street Corridor Study Richard Coleman
- Conservation
- Justice Center Efficiency Jim Stearman
- Residential/HOA Energy Audits Mary English
- Lights/Curbs/Sidewalks/Streets Joe Johnson
- Water Julie Cain
- 7:20 Raffle Drawing/Prize Awards/Wrap Up Chris Schultz & Julie Cain
- Visit Booths/Tables

# INTEREST CARD AND RAFFLE

Leawood Sustainability Advisory Board

## 6th Annual Home Owners Associations Meeting

### Interest Card

Please share your contact information so you can receive information and updates on occasion from the Sustainability Advisory Board and assist us in keeping accurate records.

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone  Home  Cell  Work \_\_\_\_\_

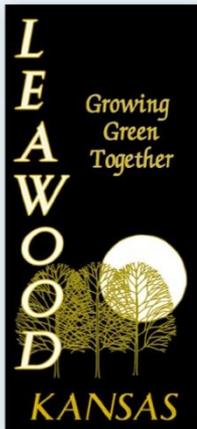
HOA \_\_\_\_\_

Phone  Home  Cell  Work \_\_\_\_\_

HOA Position \_\_\_\_\_

Email \_\_\_\_\_

May we share your information with other HOA officers?  Yes  No



**Please let us know what topics are of interest to you.** Rank these topics, with 1 being the topic you would be most interested in hearing about at next year's annual meeting.

**Recycling:** \_\_\_\_\_ Recycling/Waste Management/Hazardous Waste

**Conservation:** \_\_\_\_\_ Stream Team \_\_\_\_\_ Trees \_\_\_\_\_ Rain Gardens & Rain Barrels

**Green Mobility:** \_\_\_\_\_ Bike/Walk to School, Walking School Bus

\_\_\_\_\_ Complete Streets *(safe access for all - pedestrians & bicyclists)*

\_\_\_\_\_ **Sustainability (Green) Education**

\_\_\_\_\_ **Other** \_\_\_\_\_





# HOA MAP



# **SUSTAINABILTY ~ WHAT'S IT ALL ABOUT?**



# EARTH OVER SHOOT DAY 2013

The approximate date human resource demands exceed nature's budget – fell on August 20.

In less than nine months, we used more natural resources than what it takes the planet 12 months to produce.

**By 2050, the global population is expected to reach 9 billion!**



Global  
Footprint  
Network®

# The Ecological Footprint

MEASURES

how fast we consume resources and generate waste



Energy



Settlement



Timber & paper



Food & fibre



Seafood

COMPARED TO  
how fast nature can absorb our waste and generate new resources.



Carbon Footprint

Built-up land



Forest

Cropland & pasture



Fisheries



Global  
Footprint  
Network®

## How many Chinas does it take to support China?

🇨🇳 CHINA 2.5 

What about some other countries?

🇫🇷 FRANCE 1.6 

🇮🇳 INDIA 1.8 

🇺🇸 U.S.A. 1.9 

🇪🇬 EGYPT 2.4 

🇬🇷 GREECE 3.1 

🇬🇧 U.K. 3.5 

🇮🇹 ITALY 4.0 

🇨🇭 SWITZERLAND 4.2 

🇶🇦 QATAR 5.7 

🇯🇵 JAPAN 7.1 

🌐 WORLD 1.5 

# Study foresees further aquifer depletion

By ROXANA HEGEMAN  
The Associated Press

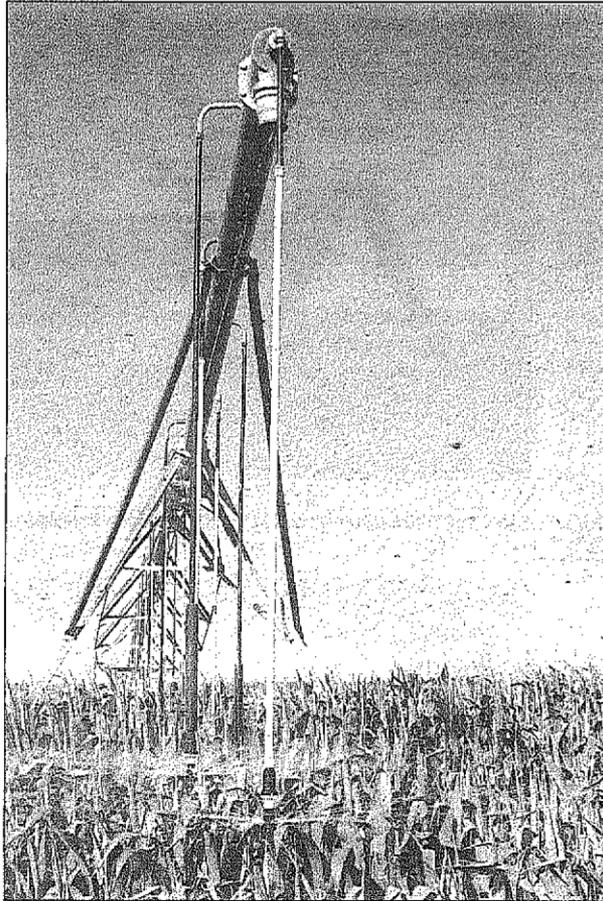
If Kansas farmers keep irrigating crops at present levels, an estimated 69 percent of the water in the High Plains Aquifer system will be depleted within 50 years, according to a study released Monday.

The High Plains system, a collection of smaller aquifers, supplies 30 percent of the nation's irrigated groundwater and extends beneath parts of eight states in the Great Plains. The latest study focused on a big part of the High Plains system, the Ogallala Aquifer underneath Kansas.

The report by researchers at Kansas State University was published in the scientific journal "Proceedings of the National Academy of Sciences of the United States of America."

The report noted that only 3 percent of its water had been tapped in 1960 - before farmers began putting in huge irrigation systems in western Kansas. An estimated 30 percent of the aquifer had been depleted by 2010, the study said, forecasting an additional 39 percent of the aquifer's water will be gone by 2060.

"Society has an opportuni-



THE KANSAS CITY STAR

Irrigation is essential on many Kansas farms.

ty now to make changes with tremendous implications for future sustainability and livability," the study

concluded. "The time to act will soon be past."

Irrigators are pumping more water than is naturally

recharging. The aquifer's natural recharge accounts for just 15 percent of the amount of water now being pumped out of it.

Once the water in the aquifer is gone, the study projects it will take between 500 and 1,300 years to refill. But it also outlined several scenarios whereby irrigators could cut back on pumping and possibly extend its usable life to 2110.

David R. Steward, a Kansas State University professor of civil engineering and co-author of the study, said researchers put forth those scenarios not to advocate any particular policy but to give people an understanding of what the implications could be for the present and the future of corn and cattle production in the region.

"The motivation for the study - what we really wrote the paper for - was the family farmer who wants to be able to pass his or her land on to their grandchildren and have their grandchildren have the same capacity, the same abilities for successful agriculture that they do," Steward said.

West-central Kansas has had the biggest depletions to date, but even the largest water stores in southwest

and northwest Kansas are forecast to have pumping capacity limits within 20 years, given current trends.

Jim Butler, chief of the geohydrology section of the Kansas Geological Survey, said he had not seen the 4-year study, which was funded by the National Science Foundation, the U.S. Department of Agriculture and Kansas State University's Rural Transportation Institute. But Butler said the findings were consistent in a general sense with past

work his agency has done.

Both Steward and Butler lauded a promising pilot program enacted earlier this year in northwest Kansas' Sheridan County aimed at prolonging the life of the aquifer. The Northwest Kansas Groundwater Management District No. 4 instituted a mandatory water management program that limited pumping for the next five years. Irrigators who pump more face fines and a suspension of their water use for two years.

**Ogallala Aquifer  
depleted 30%  
by 2010 and  
forecast to be  
69% depleted  
by 2060!**

A close-up photograph of an electrical meter, showing its circular face with various dials and numbers. The meter is mounted on a wall, and the background is slightly blurred, focusing attention on the meter's details.

**Buildings in the U.S. consume 42% of total energy and 72% of electricity.**

**Buildings in the U.S. use more energy than any country, except China.**

***-Rocky Mountain Institute***



# RESIDENTIAL LIGHTING

## Replacement Options for Incandescent (A-lamps)

- 1. Halogen Incandescent** - similar to standard A-lamps, a bit more efficient, slightly more expensive, lasting 1-2 yrs.
- 2. Compact Fluorescent Lighting (CFLs)** - more efficient and longer lasting. Better quality but still contain mercury.
- 3. LEDs** - a lot more efficient ~ using 75% less energy than incandescent lighting and a longer lasting ~ 25,000 hrs, or 22 yrs based on average household. LEDs are the future.

**Match lamps and controls for best results!**

**Visit our lighting display!**



**LEARN | ACT | GIVE**

Connecting Environment, Economy, and Community

[www.bridgingthegap.org/five-greenthings](http://www.bridgingthegap.org/five-greenthings)

- 1. Give Up Bottled Water
- 2. Switch to more efficient lighting
- 3. Wash your laundry in cold water
- 4. Use a programmable thermostat
- 5. Cut your gasoline use ~ walk or ride your bike

**I think the world is going to be saved by millions of small things.**

*~ Pete Seeger*

# School Sustainability Awards

## **Corinth**

*signs and traffic cones  
for Spring & Fall Walking  
School Bus program*



## **Prairie Star** *recycling bins*



**Cure of Ars**  
*recycling  
"bottles" for  
recycling bottles*



**Mission Trail**  
*composting bins to supply  
compost to school garden*



# Mission Trail Art Contest



# RECYCLING

**DEBRA FILLA**

**SAB Chair, Council Member Ward 1**

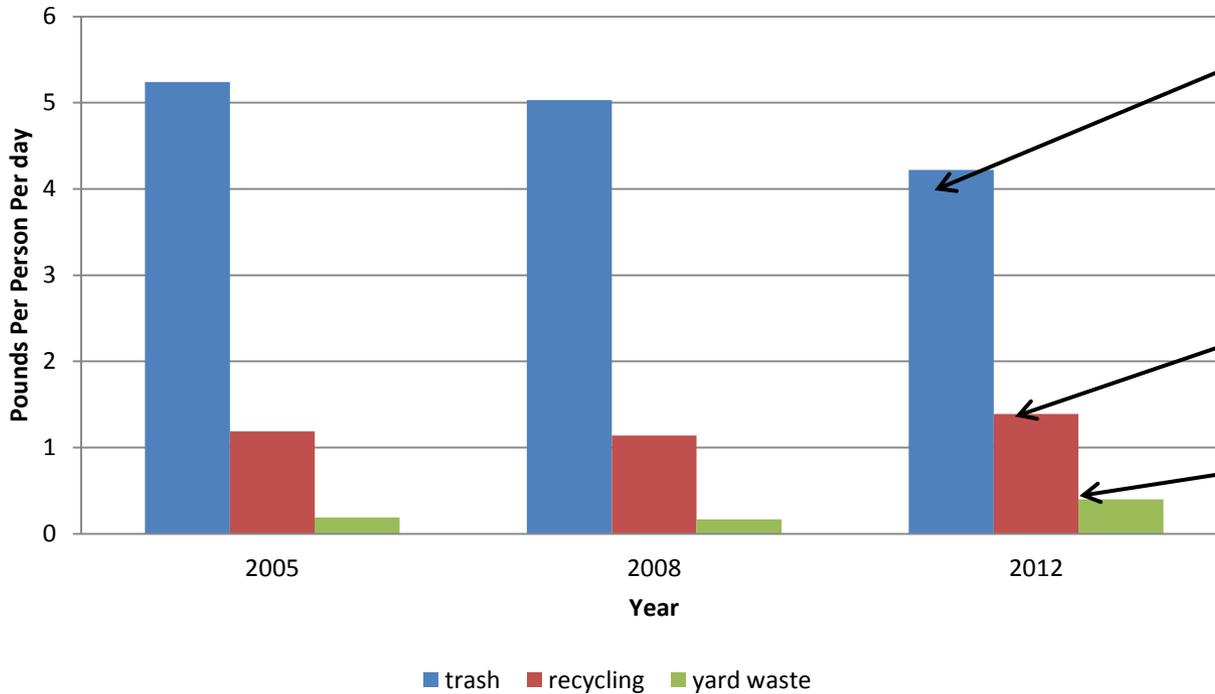
# *Green Gauntlet Challenge*

**Leawood** will be the  
1st city in Johnson County  
to achieve 100%  
household participation in  
curbside recycling



100% Recycling Participation

## Municipal Solid Waste Generation, Recovery and Disposal in Johnson County, KS



Reduced amount sent to landfills

Increased amount recycled

Doubled amount of yard waste composted

**JoCo recycling & yard waste diversion = reduced landfill**

**30% reduction by 2012**

*...statistics provided by Julie Davis, Environmental Program Manager*

*JoCo Health & Environment*

# Recycling in the Parks

**5 TONS in the first year - 2009**  
**7 TONS collected 2013**

**Other Parks & Recreation that now recycle are:**  
**Blue Valley Recreation, Lenexa, and Shawnee**





The cities of Overland Park, Leawood, Mission Hills, Prairie Village, along with corporate sponsor Black & Veatch are conducting a

# Recycling Extravaganza

Saturday, October 26, 2013 • 8:00 am - 2:00 pm

Parking lot of the vacant retail on the NE corner of 95th and Metcalf • Overland Park, KS

Confidential documents will be destroyed onsite by ProShred Security.

Suggested donation for this service is \$5 for a standard file box and \$10 for larger quantities.

Charges of \$10 to \$25 will apply to recycle computer monitors, televisions and large printers.

For 10 or more computers, contact Surplus Exchange at 816.472.0444 to schedule a pickup at your location.

## ACCEPTED ITEMS:

### Working/Non-Working Electronics

- computers, radios, stereos, CD Players, small electronics
- TVs, printers, monitors (additional charges)

### Sprint

- cell phones
- benefits great charities such as Boy Scouts and Girls Club of America

### ProShred Security

- confidential documents
- donations suggested

### Overland Park Police

- expired or unwanted medicines for safe disposal

### KU Med Audiology Clinic

- hearing aids

### Hearland Habitat for Humanity, ReStore

- new and usable building materials, hardware, fixtures, appliances
- donations may be tax deductible

### Goodwill Industries

- clothing, housewares, small appliances, furniture, toys, and many other items

### Fabric Recycles of Overland Park

- unused fabric and notions
- unusual lengths, sizes of fabric and trims, notions, machines

### Bishop Ward High School

- musical instruments

### Revolve

- working and nonworking bikes will be repaired or parts reused and what cannot be used will be recycled

### Misc Items

- hardback books, eyeglasses, sunglasses



Please visit the Overland Park website <http://opkansas.org> for more information or contact Jim Twigg at 913.895.6273 or via email: [jim.twigg@opkansas.org](mailto:jim.twigg@opkansas.org).

City of Overland Park • City of Leawood • City of Mission Hills • City of Prairie Village • Black & Veatch • Sprint • ProShred Security • KU Med Audiology Clinic • Hearland Habitat for Humanity • ReStore • Goodwill Industries • Fabric Recycles of Overland Park • Bishop Ward High School • Revolve

# Recycling Extravaganza October 2013 Event - By the Numbers

983 customers

62,000 pounds of electronics

39,500 pounds of paper shredded

2 box trucks of building materials (ReStore)

1,200 lbs of electronics of fabrics & notions

600 pairs of shoes

134 bicycles

8,900 lbs of housewares, clothing, & furniture (Goodwill)

620 fluorescent tubes

760 pounds of medications

1,100 lbs of durable medical equipment

Flatbed trailer, wheelbarrows, rakes, clippers, etc.

More Extravaganzas to come this spring and fall!

The cities of Overland Park, Leawood, and Prairie Village are conducting a

# Recycling Extravaganza

**Saturday, May 3rd, 2014 • 8:00 am - 2:00 pm**

Parking lot of the vacant retail on the NE corner of 95th and Metcalf • Overland Park, KS

# Coming this Spring!

# 2014 Recycling Extravaganza May 3<sup>rd</sup>

Confidential documents will be destroyed onsite by ProShred Security.  
Suggested donation for this service is \$5 for a standard file box.

A charge of \$10 for tube type TVs and CRT monitors only. For 10 or more computers,  
contact Surplus Exchange at 816.472.0444 to schedule a pickup at your location.

## ACCEPTED ITEMS:

### Working/Non-Working Electronics

- computers, radios, stereos, CD players, small electronics, flat panel TVs and monitors, printers and cell phones, etc. (no charge)
- tube TVs and CRT monitors (\$10 each)

### ProShred Security

- confidential papers for shredding
- paper clips and staples are OK - no loose leaf binders
- donations suggested

### Heartland Habitat for Humanity, ReStore

- new and usable building materials, hardware, fixtures, appliances

### Goodwill Industries

- clothing, housewares, small appliances, furniture, toys, and many other items

### Fabric Recycles

- unused fabric and notions
- unusual lengths, sizes of fabric and trims, notions, machines

### Revolve

- bicycles and bike accessories (e.g. helmets, racks, and tools) - working and non-working for repair and reuse or recycling

### Shoe Kansas City

- gently used shoes of all kinds

### Coalition for Independence

- durable medical equipment (wheelchairs, hospital beds, walkers, shower chairs, etc.)

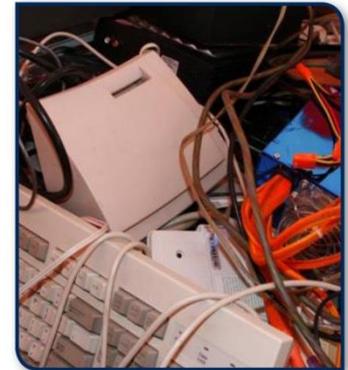
### Greater Kansas City Community Gardens

- shovels, spades, garden forks, cultivators, garden hoes, rakes (no leaf rakes), garden hand tools, any strange misc. garden tool, wheel barrows, watering wands, and water heads

- **no chemicals or hoses**

### Rehabilitation Institute

- books (hardcover and soft), magazines, and newspapers



### Unleashed Pet Rescue

- crates, kennels, dog beds, sheets, towels, dog toys, tie outs
- scoopable cat litter, cat towers, cat toys
- bags of dry dog food (OK if open), cans of cat and dog food

### Miscellaneous

- eyeglasses, sunglasses, hearing aids

Please visit the Overland Park website <http://opkansas.org> for more information or contact Jim Twigg at 913.895.6273 or via email: [jim.twigg@opkansas.org](mailto:jim.twigg@opkansas.org).

# 2014 DATES – June 7<sup>th</sup> & September 20<sup>th</sup>

## LARGE ITEM RECIRCULATION DAY

Saturday, June 7, 2014

Somerset to 95th Street (Leawood Residents)

## LARGE ITEM RECIRCULATION DAY

Saturday, September 20, 2014

95th Street to I-435 (Leawood Residents)

Help that couch, oven or other furniture or appliance find a new home and avoid ending up in the landfill!

Here's how:

- Put eligible items out no earlier than Friday, June 6. Do not leave anything out that you do not want taken, i.e., bikes, grills, toys, lawn mowers, etc.
- If inclement weather is forecasted, please cover items with plastic or hold for a future date.
- Eligible items that are not recirculated will be picked up by Town & Country Disposal, in cooperation with the City of Leawood, starting at noon on Sunday, June 8.
- This event is for items that can be reused/recycled. *It is NOT a trash pick-up day.* Any non-eligible items placed curbside will not be picked up and will be subject to fines per code violation.

If there are any issues following the pick-up date, report them by Wednesday, June 11, to Brian Anderson, Parks Superintendent: 913.339.6700 x 190 or [briana@leawood.org](mailto:briana@leawood.org).

If you are not able to participate on this date and would like to donate items in good condition, please contact Heartland Habitat ReStore at 913.648.6001.

Help that couch, oven or other furniture or appliance find a new home and avoid ending up in the landfill!

Here's how:

- Put eligible items out no earlier than Friday, September 19. Do not leave anything out that you do not want taken, i.e., bikes, grills, toys, lawn mowers, etc.
- If inclement weather is forecasted, please cover items with plastic or hold for a future date.
- Eligible items that are not recirculated will be picked up by Town & Country Disposal, in cooperation with the City of Leawood, starting at noon on Sunday, September 21.
- This event is for items that can be reused/recycled. *It is NOT a trash pick-up day.* Any non-eligible items placed curbside will not be picked up and will be subject to fines per code violation.

If there are any issues following the pick-up date, report them by Wednesday, September 24, to Brian Anderson, Parks Superintendent: 913.339.6700 x 190 or [briana@leawood.org](mailto:briana@leawood.org).

If you are not able to participate on this date and would like to donate items in good condition, please contact Heartland Habitat ReStore at 913.648.6001.

### ~ ELIGIBLE ITEMS ~

Furniture  
(excluding mattresses)

Large & Small  
Appliances

Stereo Equipment &  
Electronics without Monitors

### ITEMS NOT ELIGIBLE

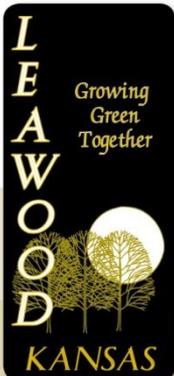
- All Liquids and Hazardous Wastes\*
- All Electronics with Monitors (TVs, Computers, etc.)
- Clothes
- Tires, Automotive Parts
- Glass, Carpet
- All Construction Materials
- Dirt
- Fencing

\* Please call Johnson County Hazardous Waste at 913.715.6900 to arrange disposal of these items.

### Leawood Sustainability Advisory Board Mission

To lead, motivate and collaborate with Leawood citizens to increase recycling, encourage conservation and promote green mobility options in the City of Leawood. Visit [leawood.org/sustainability](http://leawood.org/sustainability) to learn more about us.

reuse. reduce. recycle. **growing green together**  
**SUSTAINABILITY ADVISORY BOARD**



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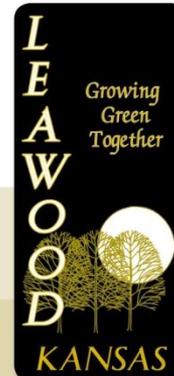
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reuse. reduce. recycle. **growing green together**  
**SUSTAINABILITY ADVISORY BOARD**





**You don't have to wait for Large Item Pickup Days  
To donate your new & used Building Materials,  
Hardware, Appliances, Furniture and more**



**Call (913) 648-6001  
Monday thru Friday  
9:00 to 5:00  
to arrange a pickup.**

[www.heartlandhabitat.org](http://www.heartlandhabitat.org)



# **GREEN MOBILITY**

## **Bike-Ped Master Plan**

**BRIAN ANDERSON**  
**Leawood Parks Superintendent**

# WHAT WILL THE BIKE-PED MASTER PLAN DO?

- Create more “complete streets”.

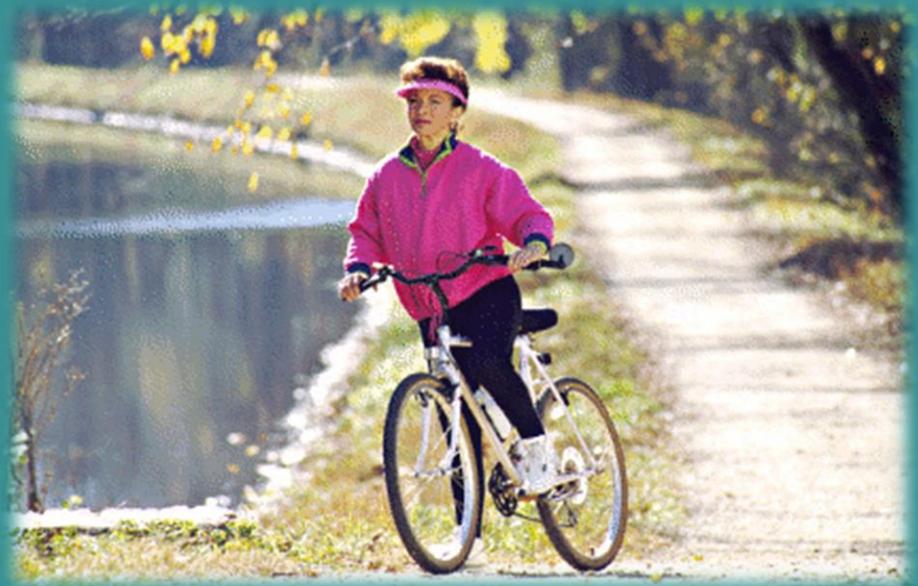
## Complete Streets:

- Are for everyone – walkers, cyclists, elderly, children and motorists.
  - Make it easy to cross the street, walk to shops, and bicycle to work.
  - Slows traffic down or increases traffic flow where needed.
- Recommend a cycling network to guide users to their destinations safely and efficiently.
  - Inventory our existing sidewalk system with a focus on ‘walkability’ and safe intersections.



# WHY DO THIS?

- **Provide Transportation Options**
- **Improve Safety**
- **Lessen Congestion**
- **Promote Health**



# TRANSPORTATION OPTIONS



There is **HUGE** Potential  
for ALL Trips:

39%

Are less than  
3 miles

17%

Are less than  
1 mile

47%

of these  
trips are driven





## IMPROVE SAFETY

- **More than 40% of pedestrian deaths occurred where no crosswalk was available.**
- **You are more likely to be killed walking than driving a car.**
- **National surveys show that cyclists use infrastructure when it's provided.**



# LESSEN VEHICLE CONGESTION

**10% - 14% of morning traffic is school trips**

- **6 Schools Celebrated International Walk/Bike to School Day in 2013**
  - **Brookwood Elementary - 349 students out of 369 participated**
  - **Corinth Elementary - 250 students**
  - **Cure of Ars - 302 students**
  - **Leawood Middle - 158 students**
  - **Mission Trail - 120 students**
  - **Nativity - 98 students**

**School officials saw a significant decrease in traffic!**

# PROMOTE A HEALTHIER LIFESTYLE

- The average person loses 13 lbs in year 1 when commuting via bike, 3X per week.
- Cycling 3 hrs/week can reduce risk of heart attack or stroke by 50%.
- Adolescents who bike are 48% less likely to be overweight as adults.



# WHERE ARE WE IN THE PROCESS

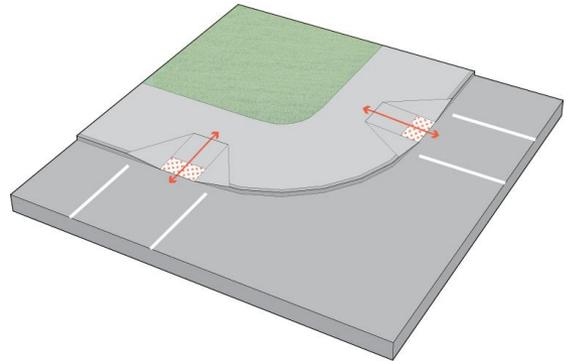
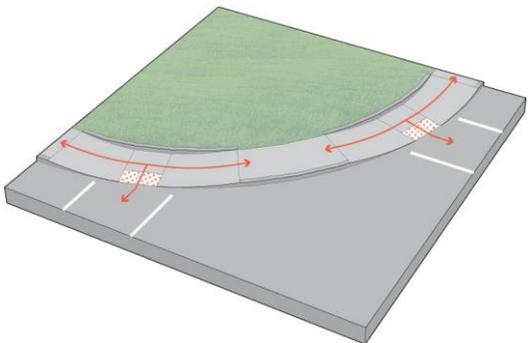
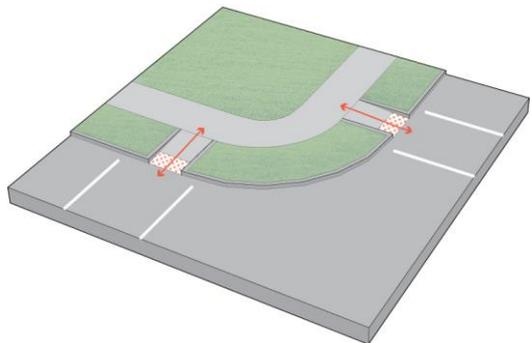
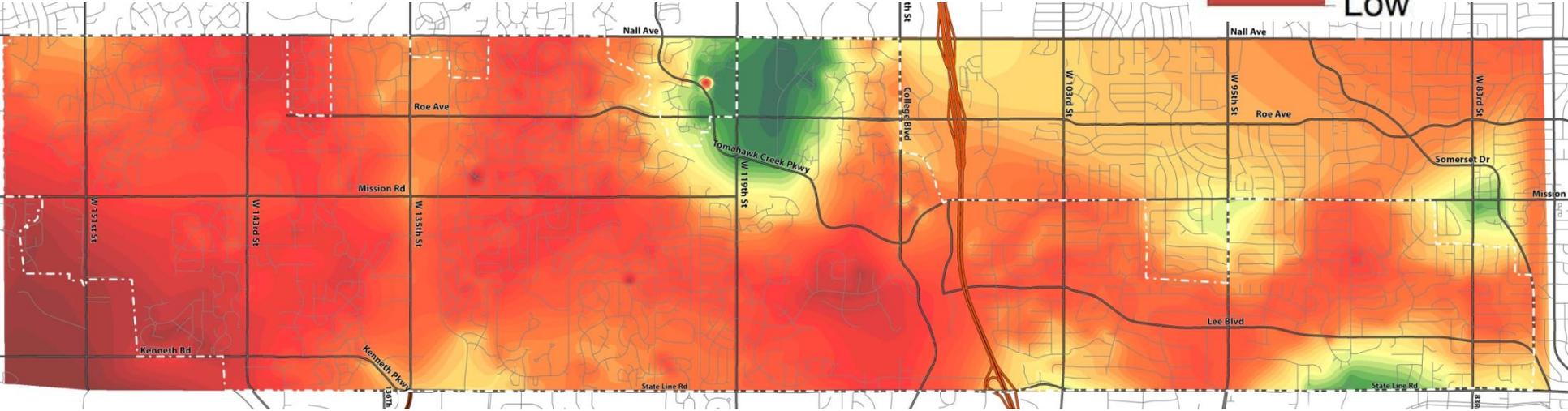
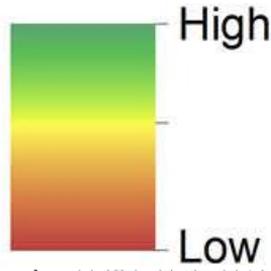


- Formed a Citizen Steering Committee.
- RDG Planning & Design consultants engaged.
- Held 3 design studios for public input.
- Created an online survey at [activeleawood.com](http://activeleawood.com) for citizen feedback.
- Biked every city street to determine the best biking streets & trails.
- Inventoried and rated our sidewalks & trails making note of needed maintenance, 'gaps' in connectivity and ADA compliance.

# Walkability Score ~ for Pedestrians

Convenience to services

source: [walkscore.com](http://walkscore.com)

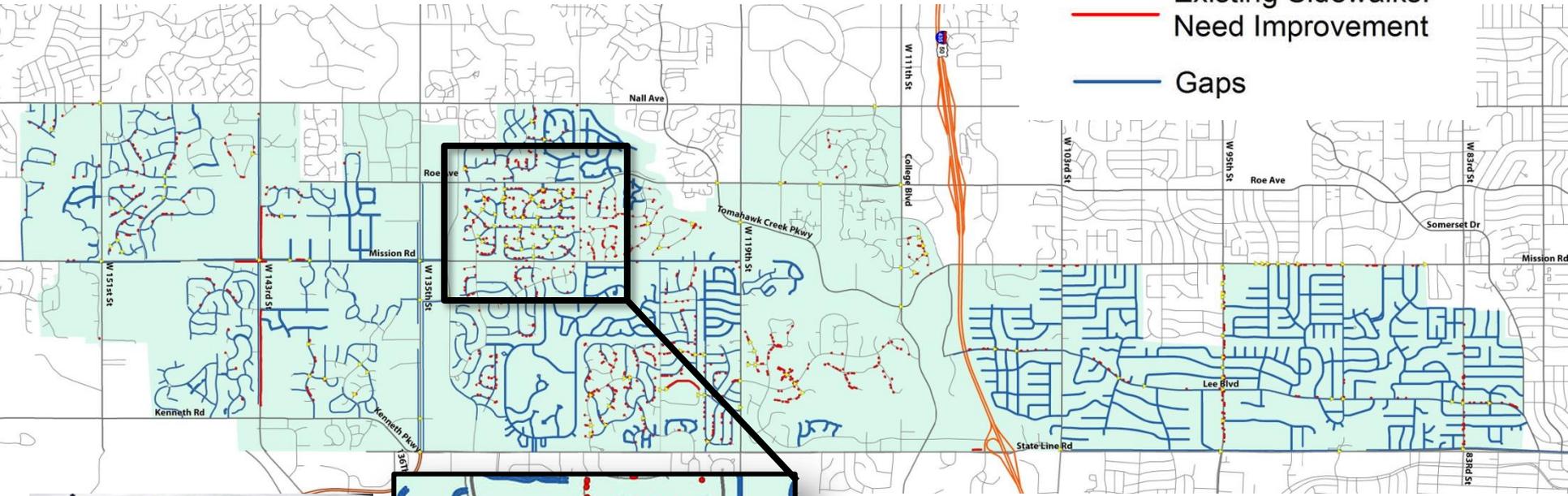


# Conditions

▲ ADA Issues: General

— Existing Sidewalks:  
Need Improvement

— Gaps



## Example Snapshot

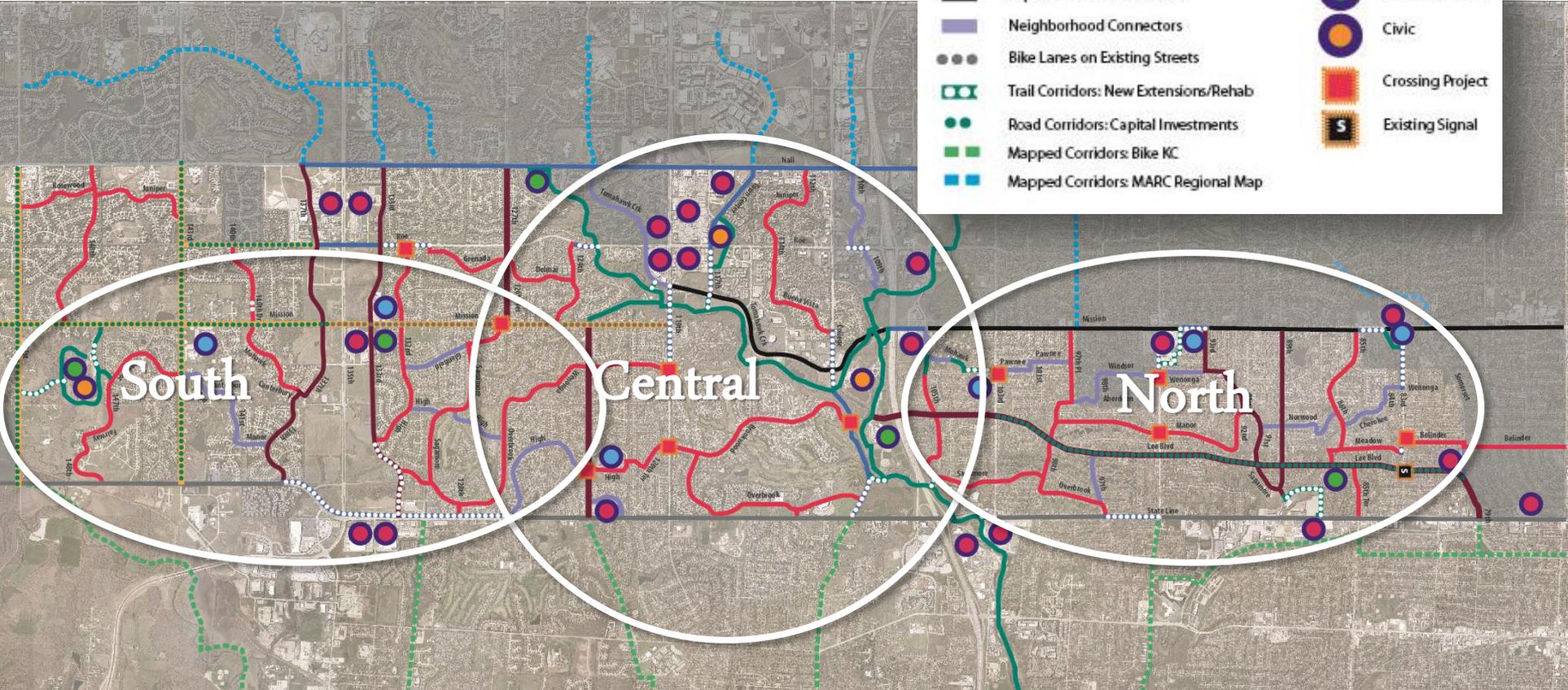
Between Roe and Mission Street

From 127<sup>th</sup> to 135<sup>th</sup> Street



# Overall

## Network Concept ~ for our cyclists



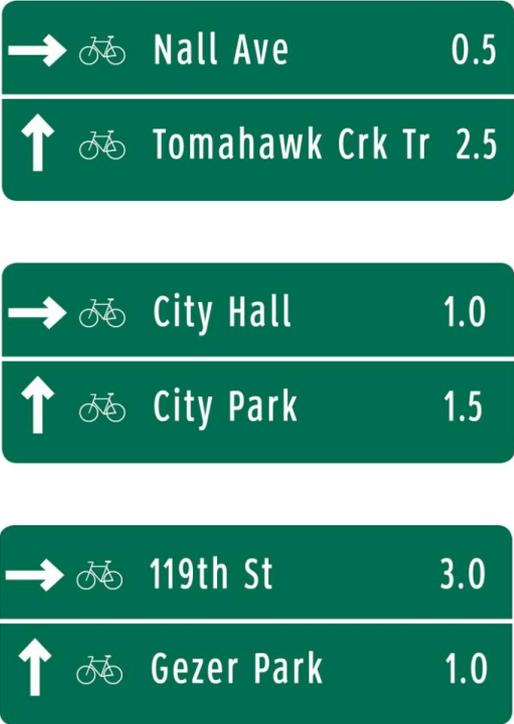
## Detailed Network Subareas

# Signage

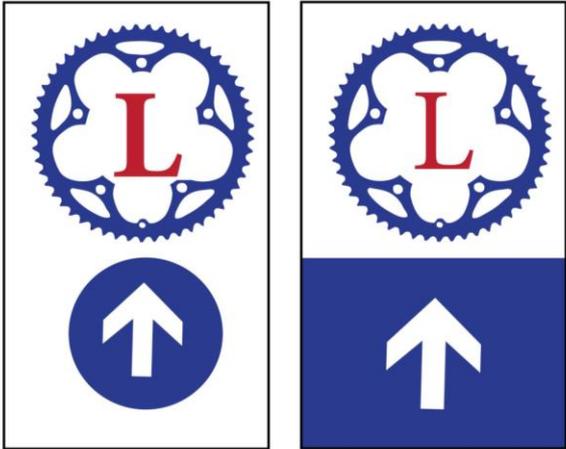
## Identifying Wayfinders



## Directional Blades



## System Mark



## Traffic Advisories



A close-up photograph of a bicycle speedometer, showing the dial and the clear plastic cover. The speedometer is mounted on a metal frame. The background is a solid teal color.

# **LEAWOOD BICYCLE & PEDESTRIAN MASTER PLAN**

**VISIT OUR BOOTH !!!**



# **GREEN MOBILITY**

## **Parks & Recreation Master Plan**

**CHRIS CLAXTON**

**Leawood Director of Parks & Recreation**

# Revised Master Plan Parks & Recreation

- Last plan was completed in 1991 – Population 20,615  
Population Today 32,000



- To be proactive in determining how to best meet the future needs of its residents through potential enhancements to existing parks, and the development of newly acquired land, as well as land owned by the city that could be repurposed.



- Phase I – Analysis of existing Parks, Trails, and Greenway  
(*type, condition, etc.*)
- Phase II – Review findings of Phase I to determine potential projects.
- Phase III – Prioritize projects and consider financing options.

The Master Plan will coordinate findings in the Bike/Pedestrian Plan so that there is cohesion between initiatives that relate to Green Mobility





# **GREEN MOBILITY**

## **Creating Sustainable Places 135<sup>th</sup> Street Corridor Study**

**RICHARD COLEMAN**

**Leawood Director of Community Development**

# CREATING SUSTAINABLE PLACES



- **VIBRANT** places provide easy access to jobs and services; offer housing, recreation, shopping and transportation choices; foster connections between neighbors and social engagement; and promote access to arts and culture. Vibrant places make efficient use of public and private assets and resources and are attractive to residents and businesses, not just today and tomorrow, but over the long haul.



- **CONNECTED** places are linked by corridors that provide transportation choices, accommodating walking, biking and public transportation as well as the automobile. These corridors attract development and help connect residents to jobs and services.



- **GREEN** places create real economic, social and environmental value for residents, businesses and communities. The conservation, restoration and addition of important green places creates a positive impact on our natural world while creating places that promote healthy life styles and healthy residents.

# 135<sup>TH</sup> STREET COMMUNITY PLAN



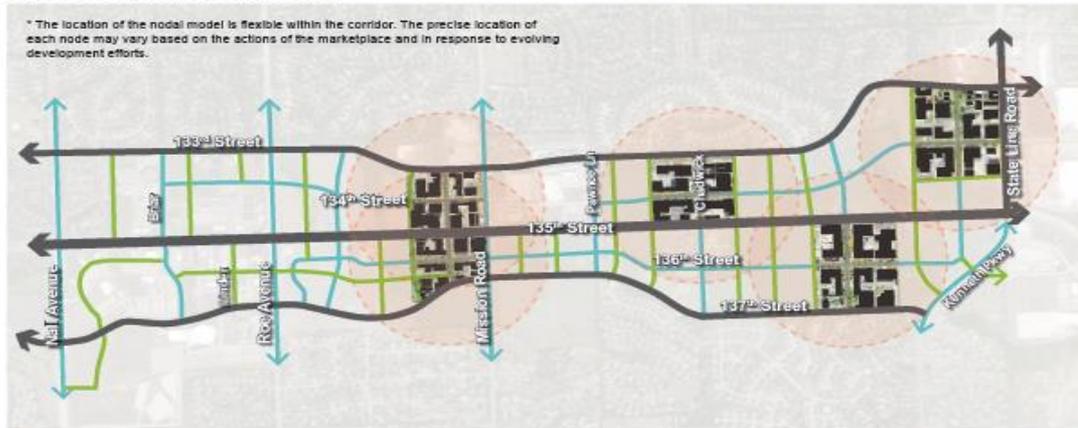
# COMMUNITY ENGAGEMENT

- mindmixer Web Page
- Media Articles
- Public Meetings
  - August 22, 2013
  - September 18, 2013
  - October 18, 2013
- Talking with people, one-on-one.



# NODES – NOT STRIP CENTERS

Figure 5.3: The Nodal Model



## 1 Access is Key

This approach helps direct a development by identifying locations for intense development that can be accessed by all modes of transportation in the future.



Nodes are built surrounding the intersection of two "Destination Streets." These streets are highly accessible by all modes of transportation, provide on-street parking for drivers, are adjacent to local bike and transit routes, and provide wide, highly amenitized sidewalks for pedestrians.

## 2 Retail Follows Retail

By concentrating development (and density) in nodes (rather than dispersed project by project across the corridor) we increase the odds of success.



Each node in the 135th Street community should be a mixed-use district with a focus on retail, dining and entertainment. These types of uses build activity in the nodes, spurring interest in these areas as places to live and stimulating adjacent developments.

## 3 Walkability Drives Success

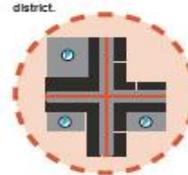
By clustering retail in key locations (at or near major intersections) we can create "park once" districts where someone can easily reach a wide variety of services.



Nodes are well-located districts with high-quality landscaping, significant tree canopy, wide sidewalks, and plenty of seating areas for pedestrians to meet, rest, or watch the action take place in the community. The clustering of retail, entertainment, and dining in these areas creates a variety of options for residents and visitors to engage in activity.

## 4 Only Park Once

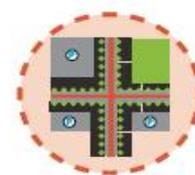
Providing a worry-free environment for visitors is important to the success of the node. The strategic placement of parking allows people to park once and spend the rest of their time walking around the node and activating the district.



The nodal model provides options for both parking structures and on-street parking to allow visitors to park once and enjoy their day in the district. By placing parking structures in and near the central core of the development, their efficiency will be maximized.

## 5 Form Pleases the Eye

At the end of the day, a better urban form creates aesthetically pleasing areas within the community. Gradual transitions from a variety of building heights and well-defined streetscapes provide that form.



A gradual transition of building heights, high-quality materials and landscape, and tree-lined streets combine to create a visually pleasing and engaging environment for drivers, bikers, transit riders and pedestrians in the district.

# STREETSCAPES

- **Destination Streets.** Commercial streets with hardscape.



Example: Ash Street in Park Place.

- **Active Pedestrian Streets.** These streets would typically have a median, two lanes each direction and wide sidewalks.
- **Neighborhood Streets.** These streets typically have two lanes and serve primary residential neighborhoods.

# TRANSITIONAL DEVELOPMENT





# CONSERVATION

**Justice Center Efficiency**

**Residential/HOA Energy Audits**

**Lights/Curbs/Sidewalks/Streets**

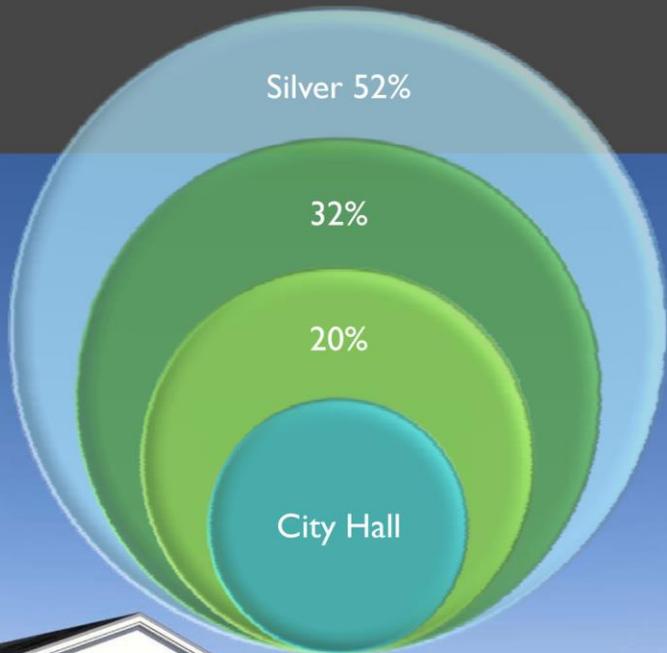
**Water**



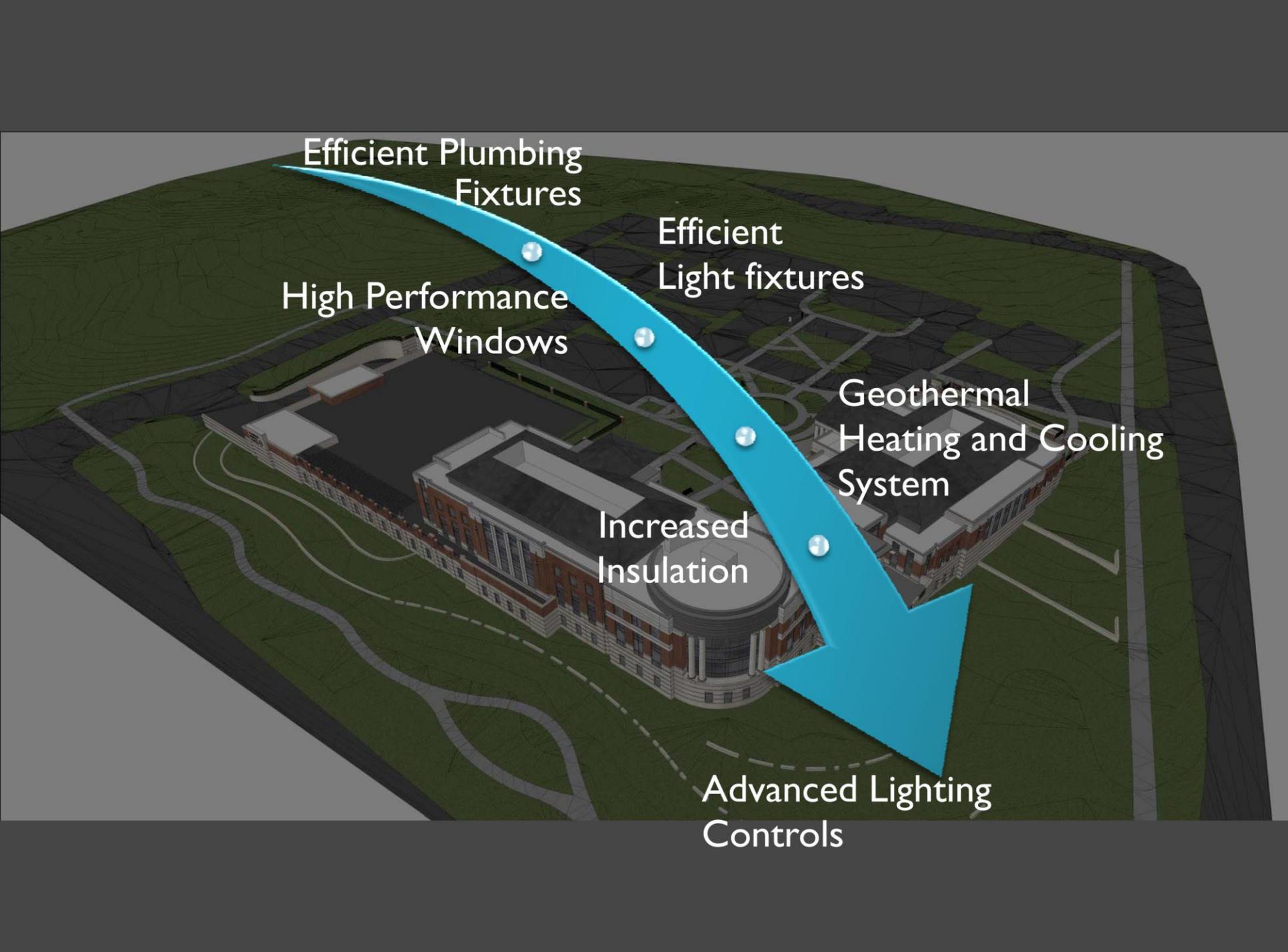
# CONSERVATION

Hoefler Wysocki Architects





**INCREASED CONSERVATION (APPROX. %)**



Efficient Plumbing  
Fixtures

High Performance  
Windows

Efficient  
Light fixtures

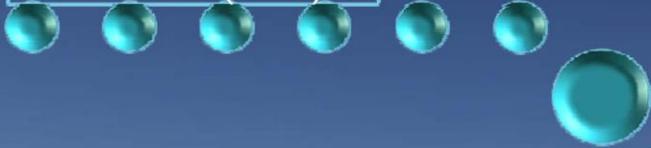
Geothermal  
Heating and Cooling  
System

Increased  
Insulation

Advanced Lighting  
Controls



ROOF: 24 (min.)



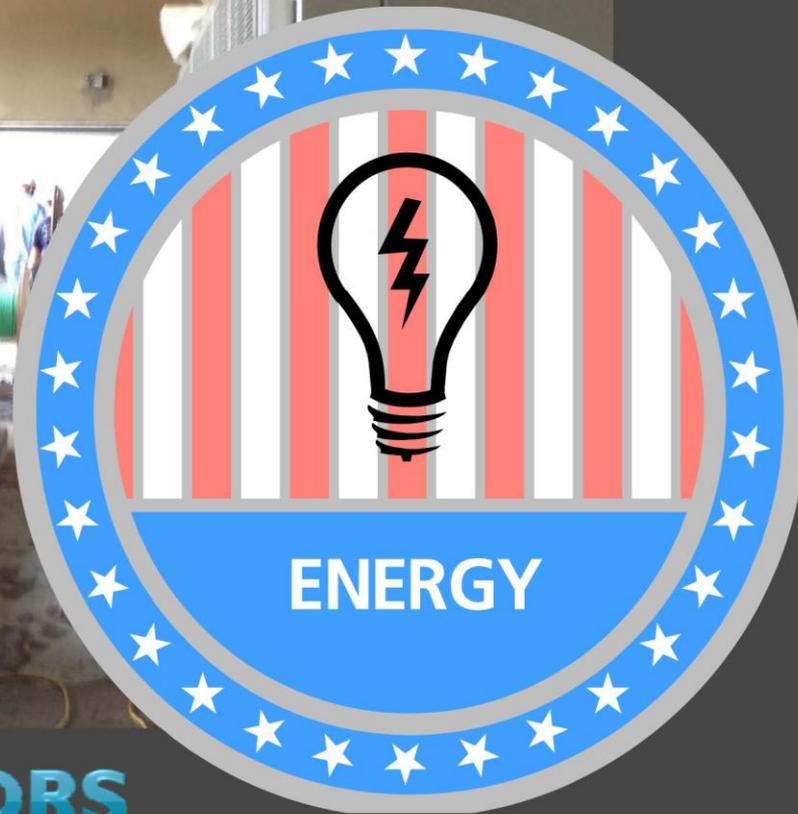
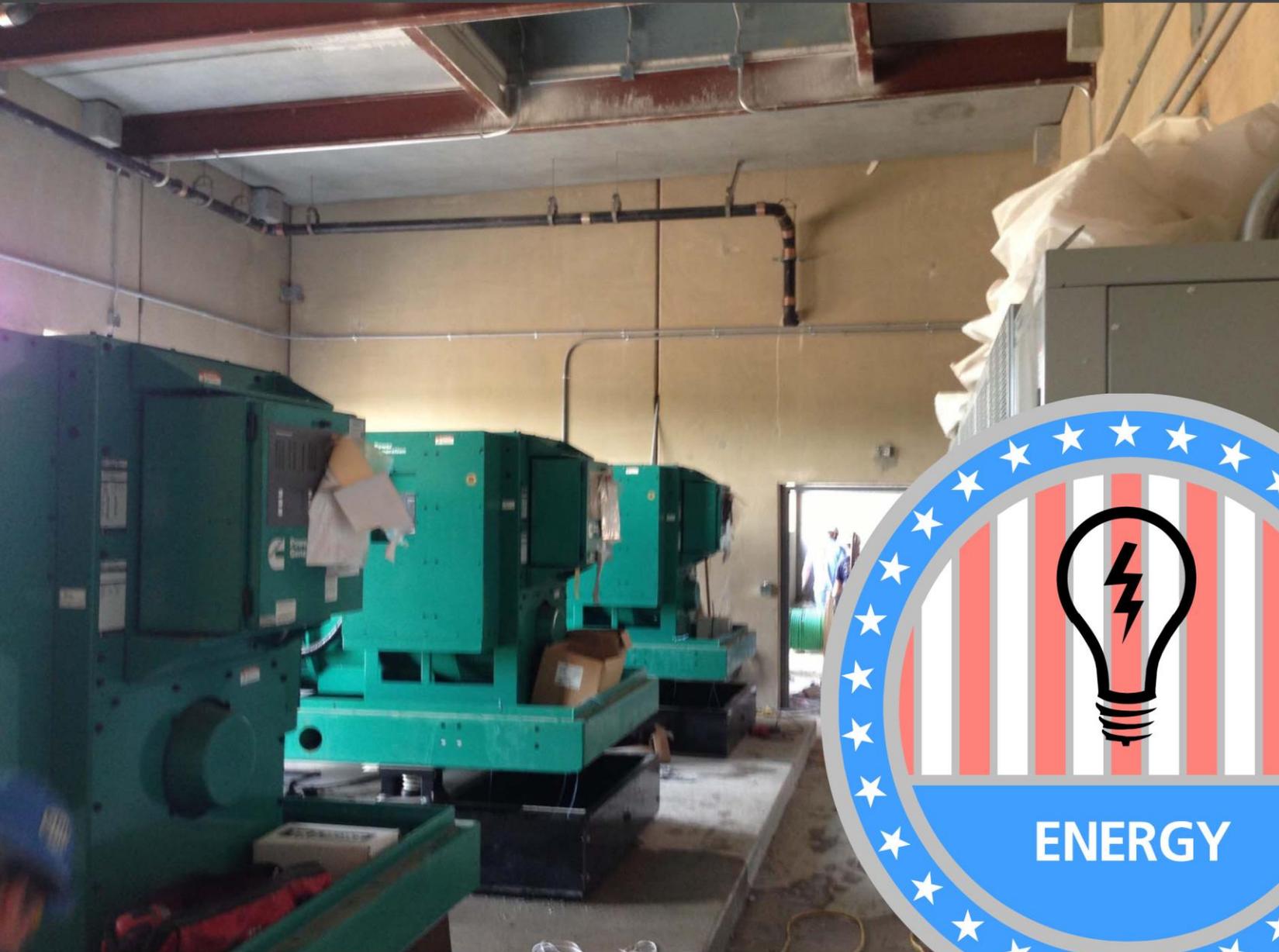
R



WALLS: 22 (min.)



**INCREASED INSULATION**



**EMERGENCY GENERATORS**



# Sustainable

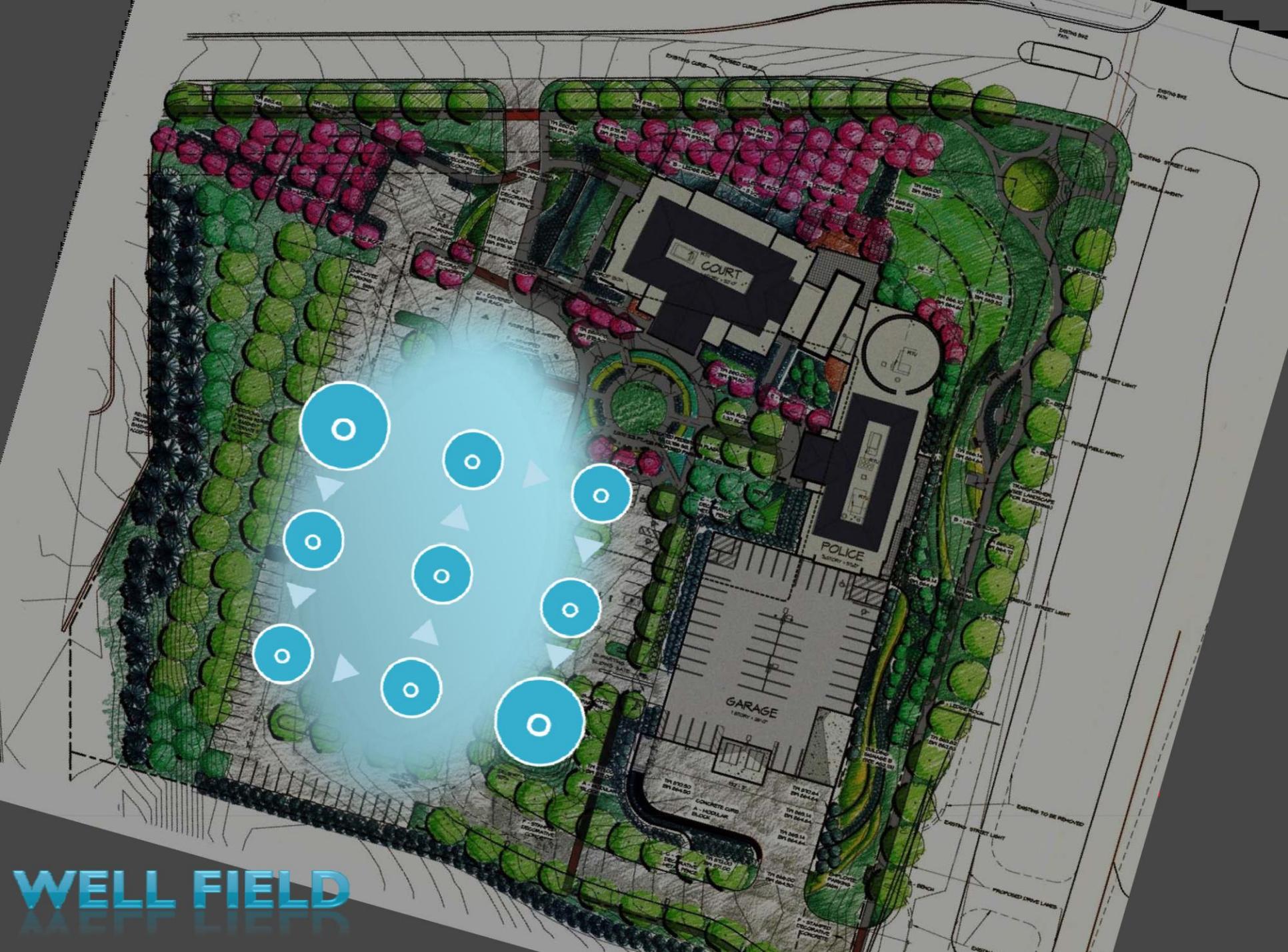
*sus-tain-a-ble*

Capable of being continued with  
minimal long-term effect  
on the environment

**GEO THERMAL SYSTEM**



# WELL FIELD

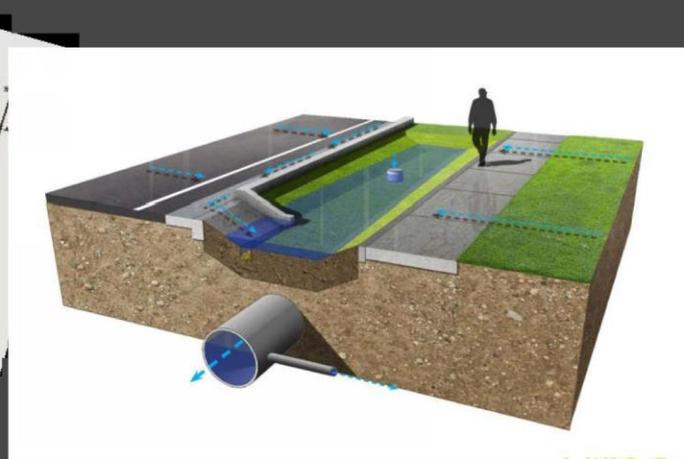




# EFFICIENT LIGHTING AND CONTROLS



**HIGH PERFORMANCE WINDOWS**



- Runoff from parking filtered:
  1. Rain Gardens
  2. Detention Basin
  3. Underground Filters
- Increased percolation
- Landscaped natural environment

# RAIN GARDENS



**SAVINGS**



Hoefler Wysocki Architecture

**THANK YOU**

A vertical strip on the left side of the slide shows a close-up of a utility meter, likely a water or gas meter, with a glass cover and various markings and numbers.

# **CONSERVATION**

## **Residential/HOA Energy Audits**

**MARY ENGLISH**

**President**

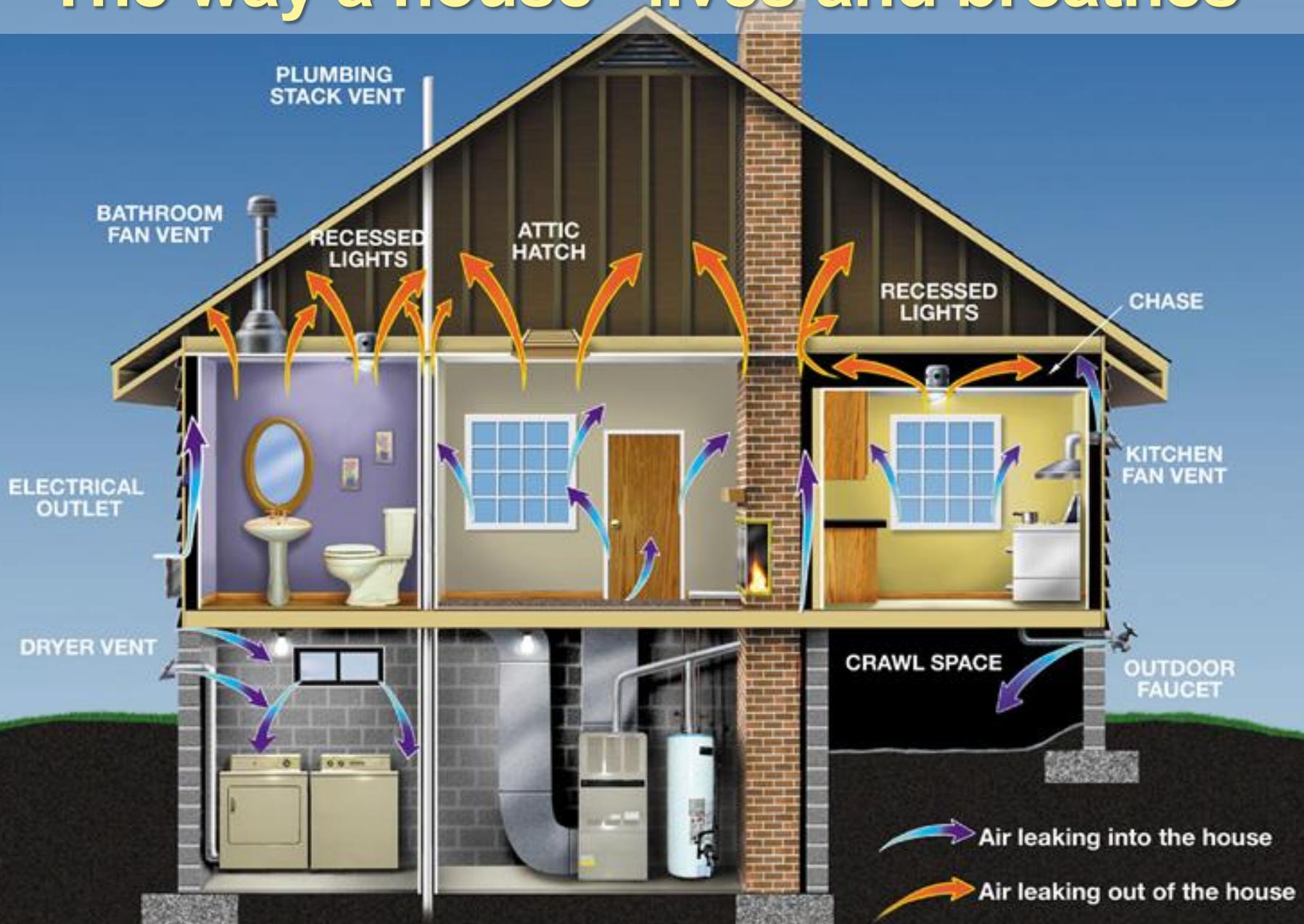
**Small Step Energy Solutions, LLC**

A close-up, vertical photograph of a utility meter, likely a water or gas meter, showing its internal components and a circular dial. The meter is metallic and has a clear plastic cover. The background is a solid teal color.

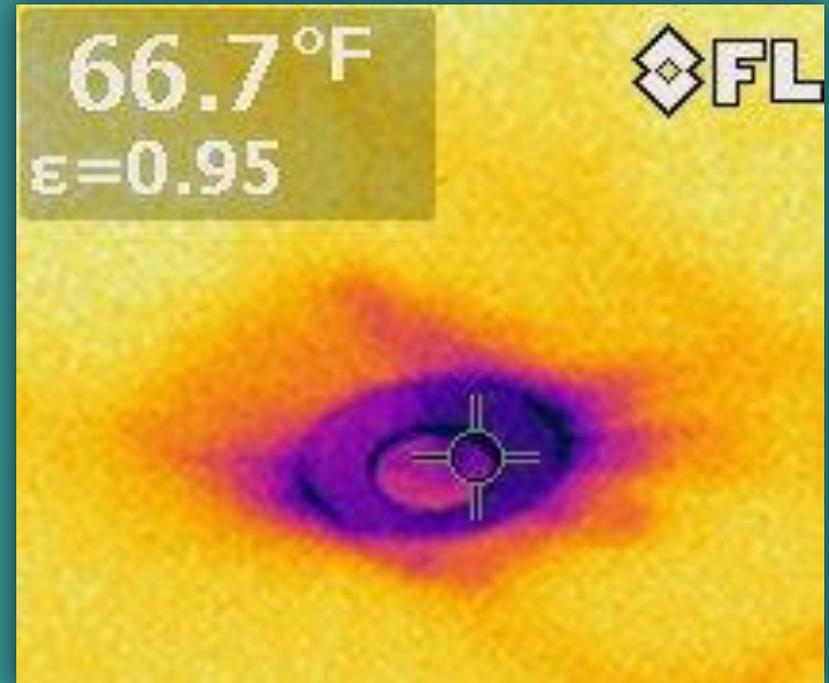
# **Converting Your House ... into A Home**

**How Residential Energy Assessments  
Lead to Increasing Comfort and Peace of Mind**

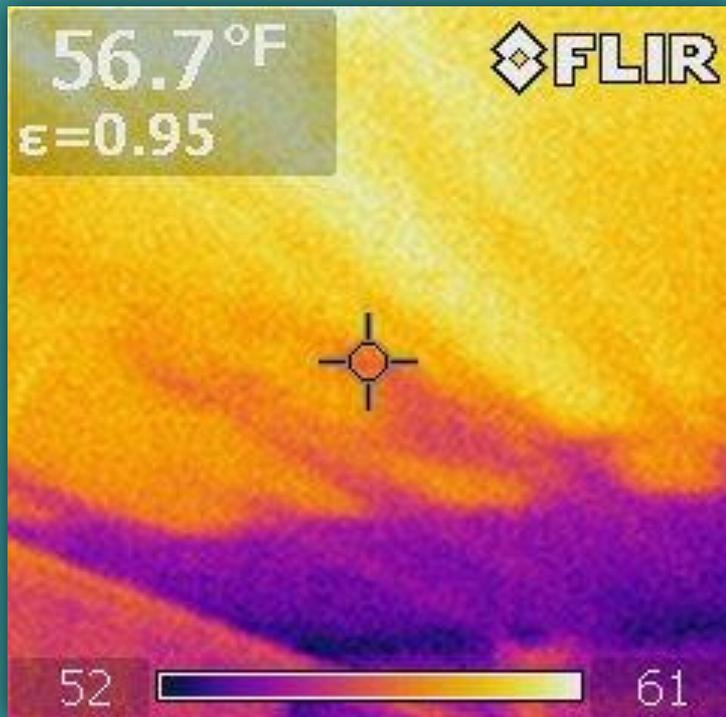
# The way a house “lives and breathes”



# Testing for Leaks



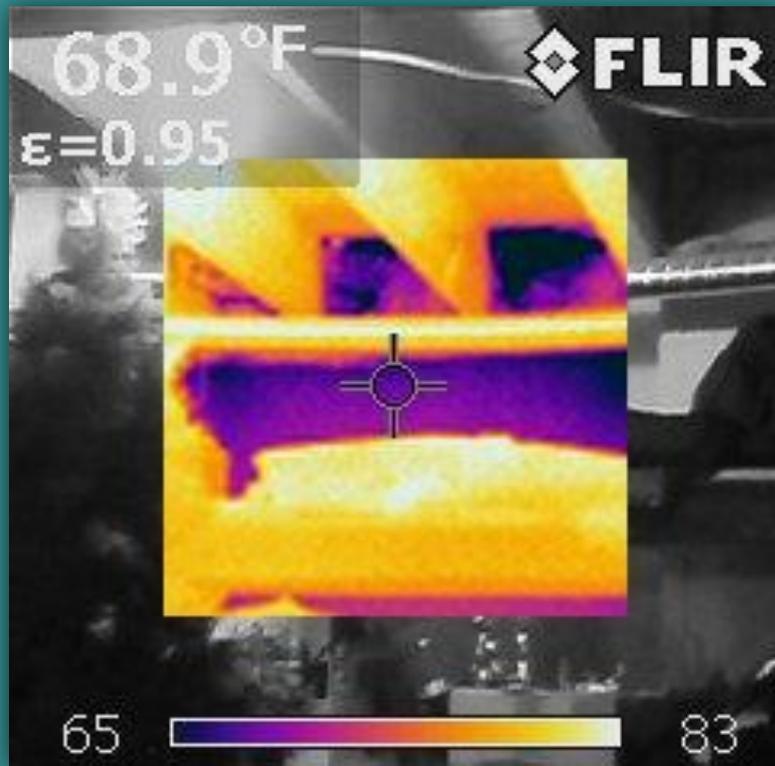
# Example: Bonus Rooms Over Garages:



## Common Issues:

- No blocking between “attic” space over garage and conditioned space.
- R19 batt in a cavity that should get an R30.

# DIY: Rim Joist



# Energy Retrofit:



- Air leakage (comfort, affordability, health).
- Insulation (comfort, affordability).
- Ductwork (comfort, health, affordability)
- HVAC (affordability, health- Test, test, test!).

## To a Lesser Extent:

- Windows and Doors. (comfort, durability)



# CONSERVATION

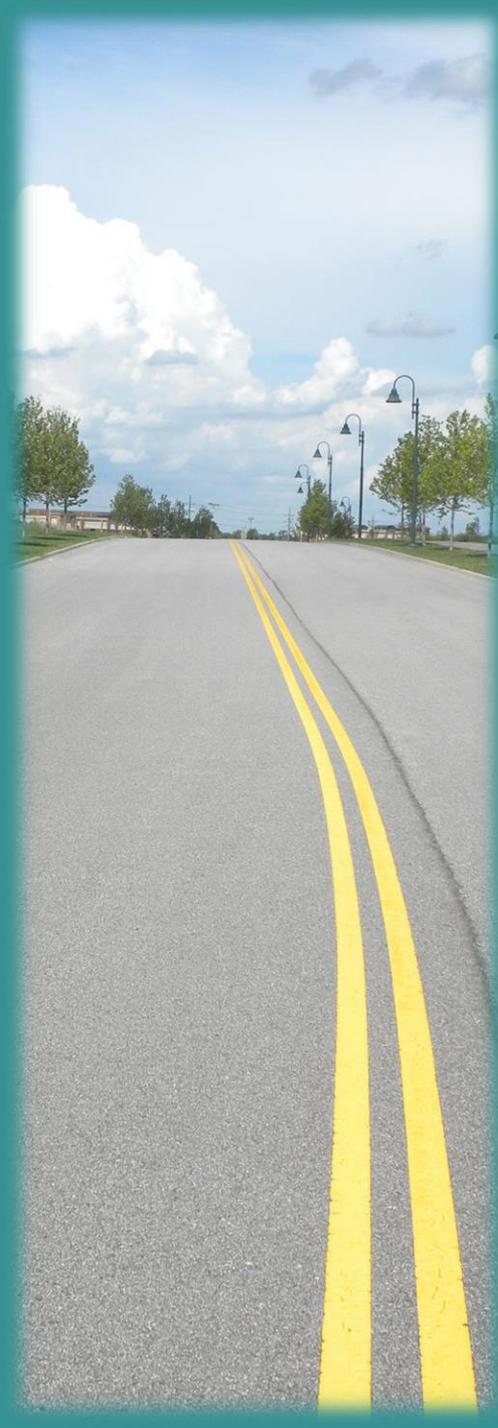
**Lights!  
Streets and Curbs!  
Sidewalks!**

**JOE JOHNSON**  
Leawood Director of Public Works

# STREETLIGHTS

- Purchased street lights from KCP&L resulting in annual savings of about \$300,000!
- Pilot project plan to evaluate LED streetlights.
  - 114<sup>th</sup> Street between 115<sup>th</sup> and Tomahawk Creek Parkway.
  - Evaluate savings at year end.
  - Based on savings from the pilot, and costs, a replacement plan will be created.
- Improvements to 143rd street in 2015 will include the installation of LED streetlights.





# STREETS

- **2014 STREET PROGRAMS**

- Residential Re-Construction Program
- Residential Mill and Overlay Program
- Arterial Mill and Overlay Program
- Curb Replacement Program

- **143<sup>rd</sup> STREET WIDENING – NALL TO WINDSOR**

- Improving to 4-lane undivided street.
- Will include sidewalks on the south side, pedestrian path on the north side and bike lanes on the road.
- Improvements to begin in 2015 and finish in 2016.

# CURBS



- Last year, a 4 year, \$20 million curb replacement program began.
- Why? The rock used to make concrete was not durable.
- In the past the City “spot repaired” the curbs.
  - The problem - year-after-year fixing the curbs in the same area, or waiting until streets were overlaid.
  - The result - reduced number of streets overlaid.
- This 4 year curb replacement program will allow the city to proactively replace all curbs.
  - The result - more cost efficiency by doing long stretches vs. jumping around fixing isolated areas.



**New curb life ~ 70 plus years!**

# SIDEWALKS

- **Per Ordinance: Sidewalk maintenance is the responsibility of the abutting property owner.**
- **The City maintains a list of addresses from residents calling in for repairs.**
- **Sidewalk repairs are based on funding & work schedules.**
- **The City has the following priority for repairing sidewalks:**
  - **Adjacent to City Property**
  - **Adjacent to a storm sewer structure or over a culvert**
  - **All other locations**
- **In 2013 - City contracted removal of tripping hazards by cutting the sidewalk edge with a saw, leaving a smooth appearance that meets ADA requirements. This continues in 2014 allowing more sidewalks to be addressed.**



A vertical strip on the left side of the slide shows a close-up of a water meter. The meter is circular with a glass cover and contains various mechanical parts and a dial. The background of the entire slide is a solid teal color.

# CONSERVATION

**Water!**

**JULIE CAIN**

**Co-chair SAB, Council Member Ward 4**

# STORMWATER INLETS

- Inlets lead to our creeks and streams.
- They are NOT for anything other than stormwater.

NO: grass clippings  
leaves  
crabapples  
dog waste ...  
or Jayhawks!



**PLEASE** help keep our Blue River Watershed as clean as possible.  
We are ALL connected.

# STREET SWEEPING PROGRAM

- Swept over 3,500 miles of curbs collecting over 1,025 tons of debris off the street.
- Collected 238 cubic yards of leaves that were recycled for compost through a local landscape company.
- Televised over 30,900 feet of storm sewer and inspected 108 outfalls for illicit discharges.



# SAVING WATER IN THE PARKS



## Reduce

- 14 irrigation systems, using rain sensors, weather stations and computer software to reduce evaporation losses.
- Separate irrigation zones between lawn and landscape plants for zone watering.

## Reuse

- Irrigation water is pumped from Indian Creek to water fields vs. treated water.
- 140 million gallons of creek water has been used to water soccer fields and traffic islands saving \$700,000.

## Conserve

- Use solar power controllers vs. electric service.
- Rain gardens to capture and release water, providing a beautiful earth scape for visitors to enjoy.



- ◆ Ironhorse Golf Course has achieved designation as a “Certified Audubon Cooperative Sanctuary” through the Audubon Cooperative Sanctuary Program for Golf Courses.
- ◆ Ironhorse is the 9<sup>th</sup> golf course in Kansas and the 884<sup>th</sup> in the world to receive this designation
- ◆ To achieve certification, a course must demonstrate a high degree of environmental quality including:

- Environmental Planning
- Wildlife and Habitat Management
- Outreach Education
- Chemical Use Reduction and Safety
- Water Quality Management
- Water Conservation

→ Since Ironhorse opened in 1994, an average of 9 million gallons of water has been saved annually by using water from the Blue River and/or reclaiming effluent water from the JoCo Waste Water Plant!

**IRONHORSE**  
Golf Club



# **BEST MANAGEMENT PRACTICES (BMP)**

**a.k.a. 'Catch and Release'**

**Matching \$\$  
up to \$1,000**

**For HOAs, Commercial, Residential  
Rain Barrels and Rain Gardens**

**(Check Leawood Ordinances)**



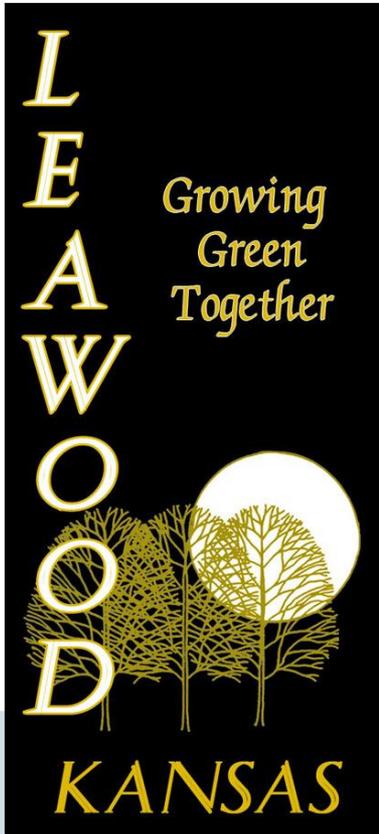


# RAFFLE & WRAP UP

CHRIS SCHULTZ and JULIE CAIN

# TOGETHER WE CAN DO MORE

Please help spread the word about these upcoming sustainability events to the members of your homeowners association.



## KEY DATES

- ✓ **April 19** - Backyard Composting, 1:00-2:30 pm at the Prairie Oak Nature Center in Ironwoods Park, 14701 Mission Road. Fee \$6/Resident Discounted Fee \$5.
- ✓ **March 30** - Spring Tomahawk Trail Clean-Up, 2:00-5:00 pm at Tomahawk Park, 119th & Mission Road.
- ✓ **May 3** - Overland Park Recycling Extravaganza, 8:00 am-2:00 pm at 6800 W. 95th Street. Make plans to recycle just about anything you can, from electronics to books, shoes, bikes, building materials, and more.
- ✓ **May 7** - Walk/Bike to School Day.
- ✓ **June 7** - Large Item Recirculation Day for Leawood Residents from Somerset to 95th Street.
- ✓ **September 20** - Large Item Recirculation Day for Leawood Residents from 95th Street to I-435.
- ✓ **October 8** - International Walk/Bike to School Day.

## Sustainability Advisory Board Mission

To lead, motivate and collaborate with Leawood citizens to increase recycling, encourage conservation and promote green mobility options in the City of Leawood.

## Learn More

[leawood.org/sustainability](http://leawood.org/sustainability)



**THANK YOU FOR COMING**

**SURVEY TO FOLLOW**



City of Leawood

LEAWOOD COMMUNITY DEVELOPMENT

135TH STREET CORRIDOR

LEAWOOD CULTURAL ARTS

THE LEAWOOD FOUNDATION

LEAWOOD INFORMATION SERVICES

HOA LOOKUP/UPDATE

LEAWOOD PARKS & RECREATION

RAIN GARDENS & URBAN FORESTRY

BICYCLE FRIENDLY COMMITTEE

LEAWOOD PUBLIC WORKS



rippleglass

