Learn about nature, like birds and butterflies.

Help clean the air so we can all breathe easier.

Provide shade to keep our neighborhoods cool.

Create safer places to meet friends or play.

What can working with lots do for us?

LOTS!

DID you Know?

Worms are great for your soil and they can double in population every 60 days!

Collect stormwater to help reduce basement flooding

Keep our rivers clean so we can have clean water to drink.
Welcome

The Urban Neighborhood Initiative (UNI) Vacant to Vibrant: A Guide to Working with Lots and lot design templates are designed to help transform your neighborhood’s vacant spaces to a wealth of vibrant places. This guide offers detailed ways to help spur ideas for vacant lot projects and point you toward the resources you need to accomplish your goals.

Those resources include information on local organizations that can assist you; the materials you will require; and custom lot design templates that will generate attractive and environmentally beneficial spaces within your community. This living document will be updated on a regular basis with new resources, design templates, ideas and comments.

Our hope is that you find this guide useful for changing the landscape of your neighborhood and increasing the sense of hope and community pride throughout the area. Your efforts can lead to maximizing the environmental benefits that your land can provide and increasing its value to the neighborhood.

The Green Spaces and Urban Farms Action Group, a part of Vacant to Vibrant (V2V), helped develop this Guide. V2V, which is supported by the Urban Neighborhood Initiative (UNI), encourages a collaborative process that recognizes all sectors of a community to transform vacant properties in the heart of Kansas City, Missouri. The Detroit Future Cities Working with Lots Guide of Michigan inspired this work.

Why this Matters

This project will produced more than a how-to book. It serves as a flexible vehicle to drive the process of getting to know natural physical environment as it relates to your culture, practical needs, and hopes for the community. Just as important: along the way, you will learn more about being an effective steward of our natural resources.

Transforming a vacant lot can have a powerful impact on improving your health and capacity to withstand heat waves, flooding and other extreme weather conditions. During your journey of reviving the land, you will assume a critical role within a citywide effort to continually improve and maintain a socially, environmentally and economically healthy Kansas City.

Urban Green Space

Green space is a foundational element of healthy, climate-resilient cities and communities. When we restore vacant spaces with green elements, they absorb more stormwater, prevent flooding and keep our rivers clean. We also create cooler, more usable space, with cleaner air to breathe, and more food for
pollinators like butterflies and bees. As a whole, a community’s people need green spaces for relaxation, rejuvenation, recreation, and gathering purposes. Each space a neighborhood reclaims is not only good for the people who live nearby, but for the larger network of green space through the Kansas City Metro area. As we transform more dead spaces into green places and connect them via trails, parkways, bicycle paths and other connections, more people will use them.

Onward
This guide is an important element in the Urban Neighborhood Initiative’s Vacant to Vibrant efforts, in which all will be able to participate. Neighborhood representatives told us what kinds of lot templates they would find helpful and how they envisioned using the guide. Community volunteers with expertise in native landscaping and vacant lot issues helped us shape recommendations specific to Kansas City. So, on behalf of everyone involved, we are pleased to provide the UNI Vacant to Vibrant: A Guide to Working with Lots and look forward to learning more about what all of us can achieve together.

How to use the guide
The UNI Vacant to Vibrant Guide helps different groups working together on urban lot projects. It is segmented into three main sections:

1. Get Organized: Helps community organizers gather neighborhood members, start conversations, understand the issues tied to available lots, and begin to plan the process of creating a vibrant space. It also helps community leaders zero in on the available lots and characteristics linked to elements like soil, shade, water supply factors and the interaction of people, animals and vehicles, etc., to determine possible plans.

2. Explore Designs: Helps groups choose a solid lot design based upon factors important to their neighborhoods and communities.

3. Make Connections: Features information for local Kansas City groups, and resource listings to access during this exciting process. Community-building and joint decision making are always encouraged, and tend to yield the best results!

More tips on preparing and maintaining vacant lots, and planting trees and perennials are available in the UNI Clean+Green Lot template.
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You can write directly on this booklet by downloading this Guide from www.uni-kc.org and making copies. You may also request printed copies from the UNI office by calling 816-231-0822

Need Land?
Gaining legal access to land is an important step in this lot design process. The resources section on pages 58 – 61 provides information on how to identify ownership and connect you to organizations that can help you transform your vacant lot.
My Lot Basics

Name: 

Start Date: 

Parcel ID Number: 

Address: 

Length: 

Width: 

Council District: 

Block Captain: 

Emergency Contact: 

Soil Texture: 

Sun Exposure: 

Helpful Neighbors:
Work Together

Discover what is important to you and your community.
Activity

Date: ________________________________

Goals:
• Learn more about who is interested in working with lots.
• Identify active hubs in your neighborhood.
• Make a list of people and existing resources.

Supplies:
• Pens or pencils
• Highlighters
• Blank paper

Tips for Activities!
• Working in groups with neighbors or friends will bring more energy to this process. As you create this visual reminder of those active in your neighborhood, describe the network of connections: people, things, places, and how people get together.

• You can write directly on booklet pages by downloading this Guide from www.uni-kc.org and making copies.

Gather your group

Activity instructions

1. This activity can be done alone or in a group, although a group is always preferred! If you are in a group, place a large sheet of paper on a table that everyone can reach. If you are alone, sit at a table and sketch or write on page 9 and take notes on page 11. Keep a pile of blank paper handy in case you need more space.

2. Think about what happens in your neighborhood and where the neighborhood hubs are: places where people gather, run into each other and hang out. Imagine as many different scenarios as you can.

3. Sketch out a drawing or write a story to illustrate these hubs and make note of the people who go there (e.g. “Tom and Jim always walk around and pick up trash on Fridays”). Write these names and notes on your drawing. Include as much detail as you can.

4. Based on the people you identified, who might be interested in collaborating on a lot project? List them on page 10 and make a note about what role they could play or what they may be willing to offer.
Activity

Identify Neighborhood Hubs

Where do different people connect?
Sketch or write a story and consider the following:

• Public spaces (community garden, parks, bus stop)

• Businesses (corner store, barbershop)

• Homes (porches, backyards)

• Places of worship

• What organizations or groups are active in your neighborhood?

• Imagine different times of year—how do people change their activities based on the season?

Sketch or write

List Possible Collaborators on the Next Page.
## List possible neighborhood collaborators

<table>
<thead>
<tr>
<th>Name</th>
<th>What Might They Offer? List Possible Roles:</th>
<th>Interested?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mrs. Williams</td>
<td>50+ years of neighborhood wisdom</td>
<td>Yes!</td>
</tr>
<tr>
<td>Neighborhood Association</td>
<td>Other volunteers, troubleshooting</td>
<td>Yes!</td>
</tr>
</tbody>
</table>

---

**Build a Network!**

Helpful organizations are listed on pages 58 – 62 and on www.uni-kc.org.

**This is just the first step to relationship building!**
**Goals:**
- Work with a group to draw or write about the type of landscapes you want to see in your neighborhood.
- Identify common values in your visions.

**Supplies**
- Pens or pencils
- Highlighters
- Blank paper (or you can use page 13)

**Suggestions:**
- Part of this activity is to understand how your lot can benefit you and your neighborhood. Do not be afraid to ask questions in your group that start with “why” and “how.”

---

**Discover what you value**

**Activity instructions**

1. Gather neighbors and friends who are interested in working with land on your block. If you are not sure who these people are or do not have an organized group, complete the activity on pages 8-11 called “Gather Your Group.” Look at the list you created and reach out to connect with the people you’ve identified.

2. Once you are in a group, place a large sheet of paper on a table that everyone can reach. You can also use page 13 in this Guide.

3. Spend 20 minutes discussing the ways working with lots can benefit you. Listen to one another, and enjoy all of the ideas that unfold. Some examples include:
   - Beautification of a lot or block.
   - Learn more about nature, like birds and butterflies.
   - Help clean the air, so we can all breathe easier.
   - Provide shade to keep our neighborhoods cool.
   - Collect stormwater to help reduce basement flooding.
   - Keep our rivers clean.
   - Create safer places to meet friends or play.

---

Date: ___________________________________________________________________
Sketch or Write Ideas

Based on what you learn in your conversation, draw or write about the types of landscapes you would like to see in your neighborhood. What does your group share in common? What benefits do you want the most? Think about the following:

- Trees and shade
- Community, involved neighbors
- Gardens or farms
- Beautification, tidiness, cleanliness
- Safe public spaces
- Clean(er) air
What is most important to your group?

What does your group agree upon?

What is the most surprising idea?
Get Organized

Identify what you already have and what you might need.
Take Inventory

Activity instructions
Consider the resources you already have access to that can help make your project a success. List everything in the columns below. Some resources will match more than one column!

<table>
<thead>
<tr>
<th>People</th>
<th>Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neighborhood friends</td>
<td>Herb garden</td>
</tr>
<tr>
<td>Church group</td>
<td>Block club clean up</td>
</tr>
</tbody>
</table>

Ask Yourself:
- What resources do we have the most of?
- What resources do we have the least of?
- What are we the most excited to learn more about?

Be sure to document your project
- Take photos of your group as you begin, and throughout the process.
- Take photos of the possible lots.
- Once you select a lot, take plenty of photos to create a “Before and After” collage.

Date: ________________________________
## Activity

<table>
<thead>
<tr>
<th>Time Commitment</th>
<th>Land</th>
<th>Cost (Money)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free evenings</td>
<td>Aunt’s sidelot</td>
<td>Plant cuttings from friends</td>
</tr>
<tr>
<td>Summer vacation</td>
<td></td>
<td>Borrow tools from neighbors</td>
</tr>
<tr>
<td>Family activity</td>
<td></td>
<td>Rain barrel to save water, $</td>
</tr>
</tbody>
</table>

Make additional notes as you discover what you already have and how these resources compare with what you will need.
Goal:
- Observe and document your block to gain a better understanding of the land in your neighborhood.

Supplies:
- Pens or pencils
- Highlighters
- Copies of handouts on pages 19-23
- Clipboards or firm writing surfaces
- Water to stay hydrated!

Suggestions:
- Before doing this activity, interview a neighbor who has lived on your block for a long time. This will help you start to understand different historical perspectives. You can ask the same questions that you ask in your group, and include new questions that explore how things have changed over time.
- If your neighbor is up for it, invite him or her along for the walk and talk activity.

Don’t Forget!
- You can map your block on page 26.

Get to know your block: walk-and-talk

Activity instructions
1. Make copies of pages 19-23. You will need to provide enough copies for everyone who will participate in this activity.
2. Gather neighbors and friends who are interested in working with land on your block.
3. Spend 10 minutes walking around your block and talking. Depending on the size of your group, you may want to break into smaller groups of three to four people.
4. Exchange stories and ideas with people in your group. Listen and observe, but do not take any notes yet!
5. Once you have spent some time in your “walk-and-talk,” go for another walk around the block. This time, consider the questions on the following page. Spend as much time as you need to answer each question.
6. As you discuss each question and seek to understand the answers, take notes and draw on the “block diagram” on page 22. The block diagram is a bird’s eye view: just imagine it’s what a bird would see when flying over your block.
7. Make a key to explain any drawings you create. Have fun using different colors or patterns.
8. Schedule a time to come back together as a group to share your observations.

Discuss what surprised you and all of the new things you learned.
Look over each set of questions. Depending upon the size of your group, it may make sense to break into smaller groups to tackle each set. Take notes and draw so that you can remember all of the details that you observed. Remember to ask “why.”

**A) How Does Your Space Connect to the Neighborhood?**

1. Where do people live? Residents are more likely to use spaces close to home.

____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________

2. Where are the public gathering spots? Would your space benefit from being close to other public spaces, or is there a greater need in an area where there isn’t currently a public gathering place?

____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________

3. Where are people parking? It is important to have access to your lot.

____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________

4. How many commercial buildings (stores or other businesses) do you see? Would your lot use benefit from being close to these business?

____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________

5. Are there vacant homes? If so, where are they?

____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________
B) Are There Personal Safety Factors?

1. In what condition is the sidewalk? Think about how folks with mobility issues might be able to access the space.

____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________

2. Where are the streetlights and fire hydrants? Well lit spaces are safer and you may need access to water, depending on how you use your lot.

____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________

3. Are people walking on the street? Why?
   You want to make sure pedestrians have a safe path to your lot.

____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________

4. How many fences do you see?
   While fences create privacy, they may also present visibility or safety issues.

____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________
C) What are the Resources and Maintenance Items?

1. Do you see any gardens? Are they private? Well cared for? Think about how invested the neighborhood is in maintaining public spaces.

____________________________________________________________________________________________________________________

____________________________________________________________________________________________________________________

2. Where is the open space?

____________________________________________________________________________________________________________________

____________________________________________________________________________________________________________________

3. What do you notice about the trees?
   Large trees can provide shade but can also prevent certain lot usages.

____________________________________________________________________________________________________________________

____________________________________________________________________________________________________________________

____________________________________________________________________________________________________________________

4. Which lots have the most shade?
   Think about how important this is to your lot use.

____________________________________________________________________________________________________________________

____________________________________________________________________________________________________________________

____________________________________________________________________________________________________________________

5. Which lot(s) do you already take care of? Maintaining a lot can be a big commitment. Would it be helpful if the lots you take care of are close together?

____________________________________________________________________________________________________________________

____________________________________________________________________________________________________________________

____________________________________________________________________________________________________________________

6. Where are the lots you own or would like to own? Use the reference guide on page 58 to find resources to help in the purchasing process.

____________________________________________________________________________________________________________________

____________________________________________________________________________________________________________________
Date: ________________________________

**Key**

- Trees on your block
- Street lights and fire hydrants
- Open spaces and gathering spots
What do you have more of on your block?
Draw a dot to show where your lot falls along the sliders (lines) below.
Create your own categories on the last slider.

Summarize your block
Get to know your lots: take a closer look at each lot you consider

**Goal:**
To better understand the condition of the land you are starting with.

**Supplies:**
- Pens or pencils
- Highlighters
- Copies of handouts on pages 25-27
- Clipboards or firm writing surfaces
- Protective shoes and long pants (in case you are walking through tall grass where debris may be hidden)
- Water to stay hydrated!

**Suggestions:**
This activity focuses on a single lot. If you plan to explore possibilities for multiple lots, go through this process for each lot you are considering. You can learn what role your lot plays in your neighborhood.

**Don’t Forget!**
You can map your lot on page 26.

**Activity instructions**
1. Make copies of pages 25-27. You can also download digital copies to print at www.uni-kc.org. Provide enough copies for everyone who will participate in this activity.
2. Gather your neighbors and friends who are interested in working with specific lots on your block.
3. Spend 10 minutes walking around your lot. Listen and observe everything that you can on the lot. For example, are there:
   - Cars or truck tracks
   - Power lines
   - Light posts
   - Sounds and smells
   - Fences
   - Birds and bees
   - Signs of people
4. Take note of what you see, hear, smell, and think. Write and draw on the lot diagram on page 26.
5. Make a key to explain any drawings you create. (Have fun using different colors or patterns.)
6. Explore your lot further by answering the questions on the following page. Continue to make notes and draw what you observe.
7. Come back together with your group to share your observations. Discuss what surprised you and all of the new things you learned. Dig deeper and ask “why.”
Lot: Closer Look Questions

Answer the following questions about your lot. Take notes and draw so that you can remember all of the details that you observed.

1. Where do you see standing water? Or is it dry? ______________________________________________________________
   __________________________________________________________________________________________________________

2. What does the grass look like? Is it tall or does it appear to be trimmed? _____________________________
   __________________________________________________________________________________________________________

3. Are there plants other than grass growing on this lot? Do you recognize them? How big are they? ______
   __________________________________________________________________________________________________________

4. Are there trees on the lot? Are they all over or clustered in one place? Are they healthy? _______________
   __________________________________________________________________________________________________________

5. Does this lot look more lumpy or smooth? Are there remnants of a foundation or structure? __________
   __________________________________________________________________________________________________________

6. Does this lot slope in one particular direction? __________________________________________________________
   __________________________________________________________________________________________________________

7. How much shade does this lot have? _______________________________________________________________________
   __________________________________________________________________________________________________________

8. Where do you see birds or butterflies? _______________________________________________________________________
   __________________________________________________________________________________________________________

9. Is there an alley? If so, what is its condition? __________________________________________________________
   __________________________________________________________________________________________________________

10. Would anything make it difficult to maintain this lot in its current state? _____________________________
    __________________________________________________________________________________________________________

11. Does this lot feel more private or more exposed and out in the open? Is there a fence? __________________
    __________________________________________________________________________________________________________

12. Look above—do you see any power lines? __________________________________________________________________
    __________________________________________________________________________________________________________

13. Are there any water sources? Can you see a hydrant or an outdoor spigot? _____________________________
    __________________________________________________________________________________________________________

14. What would you like to keep or protect on this lot? ______________________________________________________
    __________________________________________________________________________________________________________
Date: ________________________________

**NOTE:**
• You can draw a more detailed version of your lot on page 36.
Lot: Summary Sliders

What do you have more of on your lot?
Draw a dot to show where your lot falls along the sliders (lines) below.
Create your own categories on the last slider.

< Privacy  Public Space  Trees + Shrubs  Grasses + Flowers

< Lumpy Land  Smooth Land

How does your lot compare to the block?

What does your lot have that you want to keep?

What is currently missing from your lot?
Activity: Soil Texture

Know your soil: texture

Soil is composed of the following particles once any stones, sticks, and debris are removed. Understanding how much there is of each will tell you how much moisture the soil will hold, if it will drain well, and if it has enough organic matter to support plant life.

- **Sand**: These particles are grainy and can be felt individually. Sand allows water to flow through it easily and does not hold any water, air, or nutrients. Sand also compacts when wet and should not be added to Kansas City soils.

- **Silt**: Silt are particles smaller than sand that cannot be felt individually as sand particles can. It has a floury texture when dry and is slippery or soapy when wet. It is not sticky. Soils with a lot of silt compact easily and do not let necessary air get into the soil.

- **Clay**: Clay particles are even smaller than silt, and cannot be felt individually as sand particles can. It forms hard lumps when dry, and is very sticky and plastic when wet. As the amount of clay increases, the soil holds moisture and binds together more, and drains water less. If there is too much clay, clay tolerant plants must be used.

- **Organic Matter (humus)**: Organic matter is largely decomposed vegetative matter, like compost. It feels silty or flourlike when it is dry and is never sticky or plastic when wet.

**Goal:**
To understand the soil on each potential lot by using a few simple do-it-yourself tests.

**Overview:**
The lot transformation templates in this guide recommend only plants that do well in Kansas City, and they will be successful on any well drained site. However, understanding your lot’s soil type will help your neighborhood decide which plants, in addition to those recommended in the Guide, will be appropriate, and how you may need to work or amend the soil for current and future work.

The most important elements of soil to understand are:

- a) how much sand, silt, and clay it contains;
- b) how much organic matter is present;
- c) and, how biologically alive your soil is (are there bugs?)

**Supplies:**

- Clean, straight sided, clear glass jar with lid
- Soil from lot
- Large mixing bowl or pan
- Mixing spoon
- Gardening hand spade, small shovel, or soil coring device
- Clean water to fill a jar
- Teaspoon of liquid dish detergent or tablespoon of powdered detergent (clothing or dish)
Outsides one-day activities

The following tests will help you understand how much sand, silt, clay, and organic matter is in each the soil of each lot, and how biologically active the soil is.

Collecting Soil Samples

First, collect one or more soil samples when the soil is neither too wet nor too dry, but somewhere in between. The number depends on the size of the area your neighborhood will plant, and how different the soils are across the space. Each sample should be representative of the planting area.

Dig a few holes six inches below the root zone of any existing lawn—or six inches below the soil surface in areas without vegetation—across the planting area, noticing how easy or difficult it is to use the hand trowel or shovel for each hole. Observe the soil as instructed in item A. below. If the soil seems uniform, perform the tests below once with one hole. If the soil seems inconsistent, perform the test at a few locations where the soil is noticeably different.

To sample, use a hand trowel or small shovel to collect one or more samples from the holes dug previously (see hole descriptions above). If you will be planting trees and shrubs, dig 12 inches down.

Put each sample into a separate, clean, light-colored bucket, or mixing bowl. You can also use a large sheet of white paper or cardboard, or baking pan. Remove any stones, sticks, debris, or large pieces of root or other vegetative matter.

A. Observe and Touch Your Soil

1. Observe the colors of the soil. Is it dark to medium brown like a chocolate bar? This indicates organic matter. Do you see pieces of gold or grey? This is clay.

2. Observe the sample hole for several minutes. Record the number of soil organisms you see, for example, worms, centipedes, beetles, spiders, etc. You may have to move the soil around a little since these creatures do not like daylight. In healthy soil, you should be able to record at least 10 organisms in the hole. In addition to the organisms you observe, healthy soil contains a variety of life that you cannot see without a microscope, such as beneficial bacteria, fungi, protozoans and more!

3. Observe the texture and structure of the soil when you pick some up with your hand. How does the soil feel? Quality soil is made up of various sized crumbles that hold their shape when you squeeze them lightly between your fingers. If they don't break apart easily, the soil is too hard and does not have enough organic matter. It will not drain well, or create enough space for the air your plants' roots will need.
Now that we know our soil texture, what's next?

Soil quality is one factor your neighborhood can use to choose the best lot and lot design template. Ideal soils have an even amount of sand, silt, and clay, are rich with organic matter, are easy to work, and have active organisms. Soils that are hard to work, predominantly clay, or show little sign of organic matter or life are less desirable.

Soils can also be improved. Using all of the factors in this Guide, choose your best lot design, and then refer to the Clean+Green Lot template for instructions on how to prepare your lot, including improving your soil. That template is available in the UNI Vacant to Vibrant Guide section at www.uni-kc.org

Activity: Soil Texture

Take a small handful of soil and add water by the drop until it is moist enough to make a ball in the palm of your hand. Add a little more soil if the ball is too wet. Feel the ball to sense the sand (gritty), silt (silky), or clay (sticky). Now roll the ball over your pointer finger and press down with your thumb to make a ribbon that hangs down past your fingers toward the ground. See how long you can make this ribbon before it breaks. If the ribbon doesn't break, your soil is mostly clay. If the ribbon breaks when you let it hang, your soil is between 25-50% clay. If you cannot form a ribbon, your soil is mostly sand (a soil type not likely in Kansas City).

B. Sort Your Soil

1. Find a clear, clean, straight-sided empty jar or a tall container with a lid. A mason jar is ideal. (See illustration on page 28.)

2. Fill your jar half full with soil from your lot. Be sure to collect soil from the area or areas where you plan to build your landscape.

3. Add a teaspoon of liquid detergent or a tablespoon of powdered detergent.

4. Fill the jar with clean water to nearly the top, leaving enough room to shake your mixture.

5. Close the jar and shake for a few minutes or until the soil and water are mixed.

6. Place your jar on a table and let it rest for several hours to a day or until the mixture has a chance to settle. The soil will separate into three layers: clay, silt, and sand. Sand will settle to the bottom, silt in the middle, and clay on top. The three different bands of color will help you understand the different amounts of sand, silt, and clay — the texture — of the soil you have sampled.
Know your soil: moisture

Outside two-day activity

1. Examine the behavior of water on your lot. Take note of any:
   - Standing water
   - Puddles
   - Slippery or muddy soil

2. Now, use your hands and feel the ground. Touch at least six different spots. Do some areas feel wet? Are some areas drier than others?

3. What can you learn from the plants? Are there certain plants growing in damp areas and others growing in drier areas?

4. Overall, would you say your lot is more damp or dry?

5. Take note of all your water observations on your lot diagram. Have fun using different colors or patterns to note areas that are damp, dry, or different than the others.

6. Remember to try this twice, once on a dry day and once after it rains. What differences do you notice? After the rainy day, complete the steps below to learn more about soil drainage.

Decision Tree:

If site is wet more than 2 days after a rain, this is not a site for neighborhood volunteers and would require water engineering expertise.


   1. Dig a hole 12 inches deep.

   2. Fill it with water and let it drain all the way.

   3. Fill the hole with water a second time. If the water drains at least half an inch in an hour the second time you fill it, your soil has adequate drainage for a rain garden and amendments are not needed.

Goal:

Identify the changes in the temperature and moisture levels in the soil on your lot. Dryer parts of the lot will feel hotter and wet places cooler.

Supplies:

- Curious hands
- Copies of handout on page 32
- Pens or pencils

Suggestions:

Make the time to do this activity twice, once on a dry day and the second time shortly after it rains. This is also a fun activity when everything starts to melt and thaw in the springtime.
Map the different soil and moisture conditions on your lot. Fill in this key with your different soil moisture level colors or patterns.

- VERY DRY
- DAMP
- MUDDY
- PUDDLE/STANDING WATER
Understand sun and shade: select the right plants

Activity instructions

1. Use page 34 to note where you see shady patches and at what time of day you see the shade.

2. As you draw, notice what is making shade on your lot:
   - Buildings
   - Large trees
   - Existing fences or walls

3. Complete this exercise on a few different days and at different times. Notice what changes, or if some areas are always in shade.

4. Re-draw the shade conditions on your lot, using your lot observation notes. Use different colors or patterns to represent each amount of sun exposure in the sun–shade key.

5. When it is time to purchase potted plants, plugs, or seeds, be certain to ask or check labels to understand how much sun exposure is required for each type plant.

Goal:
Select the best plants for your lot by understanding the sun and shade assets on your lot.

Overview:
Mapping the sunny and shady areas of your lot will help you select appropriate plants for different lot areas.

Supplies:
- Pens or pencils
- Highlighters
- Copies of handout on page 34

Suggestion:
Using a compass, determine what direction north is on your lot. If you are using a smartphone, there are a range of free compass apps available.

Date: ___________________________
Map the sunny and shady areas to select appropriate plants for different lot areas.

- **Full Sun**: Lot area that receives direct sunlight for six hours or more each day, including some or all afternoon sun.
- **Part Sun/Part Shade**: Lot area that receives full or indirect sun for three to six hours per day. These areas could be shaded by structures or have sunlight filtered by trees for part of the day.
- **Full Shade**: Lot area that receives several hours of sunlight throughout the day—there may be shade under a single tree or a cluster of younger trees with little foliage.

Fill in this key with your different sun and shade colors and patterns.

- Full Sun
- Part Sun/Part Shade
- Full Shade
Draw your lot

Activity instructions

1. Measure your lot with a tape measure or string. Make note of these dimensions and re-draw your lot on the grid paper provided on page 36. Note, each small square is equivalent to one foot.

2. Where is north? Remember to note this on your site plan.

3. Are there any big trees or flowering bushes already growing on your lot that you like? Note the location of plants you want to keep.

4. Is there any infrastructure on or near your lot? Draw and note the presence of:
   - Overhead power lines
   - Fire hydrants
   - Sidewalks
   - Curb cuts
   - Water cisterns
   - Downspout location on your home

5. If there is trash or debris on your lot, how much time will it take to clean this up? An hour? An afternoon using a large dumpster? Can any of this be recycled? Remember to note expenses on your project budget sheet on page 40.

6. Consider who else is already using your lot. Is there evidence of:
   - People (pathways or benches)
   - Birds (look up!)
   - Butterflies
   - Squirrels or other animals?

7. What else do you see?

Goal:

Draw and measure your lot with attention to detail. This will help you better tailor the design you select to the lot you have.

Supplies:

- Pens or pencils
- Highlighters
- Tape measure or string

Suggestion:

All of the lot designs in the Guide have been designed and price-estimated based on the typical dimensions of a 30 x 100-foot lot. While this is a common dimension, it may not be the exact size of your lot.

Having precise dimensions will help you interpret the Guide Lot Design you select, and apply it to your existing lot. Be sure to measure your lot.
Budgeting: organize your time

**Activity instructions**

1. Using page 38, brainstorm the next steps needed to take to move your project towards completion.

2. Ask yourself: What can I do in the next hour to advance my project? How about in the next week?

3. Consider if these activities will be a one-time event or repeat events? Check the related boxes. If they will repeat, will it be on a weekly, monthly, or yearly basis?

4. Highlight the steps you will enjoy the most. How will you share responsibility for these steps with your partners?

5. Highlight the steps that feel challenging. Is there someone else you can speak with about this part of your project?

6. Make note if any of these steps will require money.

7. Finally, consider when you plan to build your lot design.

The UNI Vacant to Vibrant Guide recommends ensuring you have extra time available the two weeks prior to construction as well as the six weeks following construction.

**Goal:**
Discover the time required to make your landscape project a reality.

**Supplies:**
- Pens or pencils
- Highlighters
- Paper

**Suggestion:**
How much time do you have to dedicate to your landscape on a daily basis? Draw a circle like the one below and draw lines depicting how you spend your time in a typical 24-hour day. Also, consider time needed during different seasons of the year.

Think of each slice of time as a part of your day. What does this mean for a week or month? Be honest with yourself!
Organizing your time

Answer the following questions and imagine the steps to move your project forward.

1. How much time do I have to attend and organize neighborhood meetings?
2. Do I need to fundraise?
3. When will I be able to connect with local organizations to help with my project?
4. How much time will I need to organize my volunteers?
5. How will I transport materials to the lot?
6. Upkeep and watering are important, especially during the first six weeks after construction. How can I make time to be available during this ‘establishment’ window?
7. Will any of these steps require money?

<table>
<thead>
<tr>
<th>Steps</th>
<th>Once</th>
<th>Repeat</th>
<th>$</th>
<th>Est. Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organize block club meeting, revisit existing visions</td>
<td></td>
<td>X</td>
<td></td>
<td>4 hours/mo</td>
</tr>
</tbody>
</table>

Total time required

When in doubt, reach out!
Surprised by how many repeating tasks you’ve identified? Check out the activity on page 8 to identify who in your neighborhood might be interested in working together.
Budgeting: consider other costs

**Activity instructions**

Some costs for building a landscape won’t change, whether you select the least or most expensive lot design. This activity will help you identify fixed costs that exist above and beyond the actual construction costs.

1. Take 10 minutes to write down any costs you can imagine outside of the actual lot design. For this first step, simply list the item. Here are a few ideas to get you started:
   - How much driving and gasoline will this take?
   - Do you currently have access to water on the lot you are considering? What will this add to your water bill?
   - Have you already installed a rain barrel to collect rainfall?
   - Do you have time to get a hydrant permit from the Water Department, or do you need to hire someone to help you?
   - Can you buy or borrow an extension hose to reach from your water source to the lot? Most plants will need regular watering until they are established.
   - What type of insurance, e.g., liability insurance, do you need and what will this cost?

2. Follow up on the costs as you complete your research—and take note of all potential costs.

3. Take 10% of this amount and add it to the “contingency” line—you always want to save funds for a “rainy day!”

4. Add everything together and record this number on your project budget sheet under “total landscape cost.”
<table>
<thead>
<tr>
<th>Steps</th>
<th>Cost</th>
<th>Once</th>
<th>Week</th>
<th>Month</th>
<th>Annual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Property taxes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Secure proper insurance</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Roll-off dumpster</td>
<td></td>
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<td>X</td>
<td></td>
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</tr>
<tr>
<td>Soil testing</td>
<td>$25</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>Garden hose extension</td>
<td>$36</td>
<td></td>
<td>X</td>
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<tr>
<td>Party to celebrate</td>
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<tr>
<td>Total landscape cost: $</td>
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</tbody>
</table>

**Take it easy!**

You don’t have to complete your entire project all at once. Work in phases and over seasons to add more time to your project budget and learn along the way.
Wrap-up

Date: ______________________________________________________________________

**Summarize!**

1. What have you learned about your lot? ______________________________________________________________________
   ______________________________________________________________________
   ______________________________________________________________________

2. How much time can you devote to upkeep of your lot? ______________________________________________________________________
   ______________________________________________________________________
   ______________________________________________________________________

3. What is your biggest budget surprise? ______________________________________________________________________
   ______________________________________________________________________
   ______________________________________________________________________

4. Have you identified an adequate number of collaborators? ______________________________________________________________________
   ______________________________________________________________________
   ______________________________________________________________________

5. What experience do you and your collaborators bring? ______________________________________________________________________
   ______________________________________________________________________

What are you excited to learn more about as you explore lot designs?
Notes
Explore Lot Designs

Get to know some of your options
Discover your lot type

Following are descriptions of the various lot types typically found in Kansas City, Missouri. Read through the list and determine if one of these descriptions matches the type of existing lot you will be transforming into a new lot design. A list of possible lot design templates is included at the bottom of each description. A chart indicating the best lot designs for all of the lot types listed is on page 48, and detailed information about each lot design template begins on page 49.

**Forest Patch**
Forest Patches have woody growth — or small trees and shrubs—growing throughout the lot. Trees growing on the lot are at least 12 feet tall. If well managed, Forest Patches can become a neighborhood asset by cleaning the air, providing shade, soaking up rainfall and snowmelt, and providing wildlife habitat.

**Suitable Lot Designs:** Summer Shade and Dumping Preventer.

**Pangaea**
A Pangaea, which means “supercontinent” of trees, lot contains a cluster of trees growing only in the back third of the lot, with grasses growing underneath. This clump of trees often grows across multiple lots on a single block. This lot type tends to occur on residential blocks that have more open lots than houses. Pangaea lots help provide cleaner air and are great for adding other plants, including more trees.

**Suitable Lot Designs:** Native Butterfly Meadow, Royal Rain Garden, Dumping Preventer, Summer Shade, Party Lot and Four Seasons.

**Scrub Along the Fence**
A Scrub Along the Fence lot has a collection of trees growing along the lot boundary, either along a fence, or in a line where the a fence used to be. These trees can be short and scrubby or quite tall. Many—but not all—of the trees growing on this lot type might be volunteer species, or trees that have planted themselves. You can choose what to keep and what to remove.

**Suitable Lot Designs:** Native Butterfly Meadow, Royal Rain Garden, Dumping Preventer, Summer Shade, Party Lot and Four Seasons.
**Lot Types**

**Happy Lawn**
A Happy Lawn lot has only short or tall grasses growing on it and the grass may be so thick that it’s difficult to see the ground. The lack of woody plants, such as small trees and shrubs, means there is little to no shade. Happy Lawns are well-established and probably have been in place for several years.

**Suitable Lot Designs:** Native Butterfly Meadow, Royal Rain Garden, Dumping Preventer, Party Lot and Four Seasons.

**Hustling Lawn**
A Hustling Lawn is a lawn on its way. The somewhat scruffy mix of plants may cover more than half of the lot, but the plants don’t look or feel entirely like grasses. In addition to grasses, the mix of species might include wildflowers or weeds. Hustling Lawns are not as thick as a Happy Lawn.

**Suitable Lot Designs:** Royal Rain Garden, Dumping Preventer, Party Lot and Four Seasons.

**Bigger Street Trees**
A Bigger Street Trees lot has at least one healthy street tree with a diameter of one foot or greater. A street tree is a tree planted in the right-of-way, or the area between the sidewalk and the street. Trees benefit neighborhoods in many ways so the Guide recommends preserving healthy large trees on every lot, even if it means making adjustments to the lot design you are considering.

**Suitable Lot Designs:** Native Butterfly Meadow, Royal Rain Garden, Summer Shade, Party Lot and Four Seasons.

**Fresh Demo**
A Fresh Demo lot occurs when a building has recently been removed. Because the building removal was recent, this lot requires the least amount of preparation of the lot types. A Fresh Demo will be relatively level and have very little (unwanted) plant growth.

**Suitable Lot Designs:** Native Butterfly Meadow, Royal Rain Garden, Party Lot and Four Seasons.
Lot Types

**Basement in Place**

A Basement in Place lot is where there is a visible difference in the plants and activity above ground where the basement of a house either used to be, or still might be located underground. The lot might be slightly raised where the basement once was, or there could be visible debris in the form of concrete and masonry at or just below the surface. This area could be bald, while the rest of the lot is covered with plants and grasses. Due to the underground debris, Basement in Place lots limit the range of designs that will work without significant excavation.

**Suitable Lot Design:** Dumping Preventer.

**Mounded**

A Mounded lot may have one or several mounds of earth, creating an uneven surface in places. There may be grass, small trees or some scrubby growth.

**Suitable Lot Designs:** Royal Rain Garden, Dumping Preventer and Four Seasons.

**Mixed Green**

A Mixed Green lot has a little bit of everything—grasses, trees, maybe some remnant shrubs or even a mound or two. While it is possible that you will manage your Mixed Green lot into a Forest Patch, it will take a long time for this to occur, as the woody growth on this lot type is quite young. The Guide recommends preserving healthy large trees on every lot, even if it means making adjustments to the lot design you are considering.

**Suitable Lot Designs:** Native Butterfly Meadow, Royal Rain Garden, Dumping Preventer, Party Lot and Four Seasons.
Suitable lot designs

The table below is designed to help you narrow your choice of lot designs. Find the name of the lot type or types you selected on pages 44-46. The dark purple squares indicate the UNI Vacant to Vibrant Lot Design Templates that are most suitable for developing each type of lot. The Lot Design Templates on pages 53-56 provide detailed information about each lot design.

<table>
<thead>
<tr>
<th>Lot Design</th>
<th>Native Butterfly Meadow</th>
<th>Royal Rain Garden</th>
<th>Dumping Preventer</th>
<th>Summer Shade</th>
<th>Party Lot</th>
<th>Four Seasons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest Patch</td>
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<tr>
<td>Pangaea</td>
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<tr>
<td>Scrub Along the Fence</td>
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<tr>
<td>Happy Lawn</td>
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<tr>
<td>Hustling Lawn</td>
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<tr>
<td>Bigger Street Trees</td>
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<tr>
<td>Fresh Demo</td>
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<tr>
<td>Basement in Place</td>
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<tr>
<td>Mounded</td>
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<tr>
<td>Mixed Green</td>
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</table>
Lot design overview

To help with the lot design decision-making process, the darker colored boxes in the table below indicate the amount of resources and other factors involved in developing and maintaining your lot.

<table>
<thead>
<tr>
<th>Lot Design:</th>
<th>Native Butterfly Meadow</th>
<th>Royal Rain Garden</th>
<th>Dumping Preventer</th>
<th>Summer Shade</th>
<th>Party Lot</th>
<th>Four Seasons</th>
</tr>
</thead>
<tbody>
<tr>
<td>People</td>
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<td>Volunteer</td>
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<tr>
<td>Volunteer + Professional</td>
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<tr>
<td>Professional</td>
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<td>Experience</td>
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<td>Beginner</td>
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<td>Intermediate</td>
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<td>Advanced</td>
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<td>Upkeep</td>
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<td>Low</td>
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<td>High</td>
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<td>Stormwater</td>
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<tr>
<td>Good Management</td>
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<td>Better Management</td>
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<td>Best Management</td>
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<td>$2,500-$5,500</td>
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</tbody>
</table>
Learn about the lot designs

Prepare your lot design flash cards

1. Turn to the Lot Design Flash Cards on pages 53-56 and, if needed, make a copy of the cards for everyone in your group. With a pair of scissors remove the Lot Design Templates with descriptions from each page.

2. Understand what you’re looking at by reviewing the lot design “key” card below.

3. The lot designs are also located with much more detail on www.uni-kc.org. Visit the website to take a closer look.

4. Work in a group and follow the directions for either activity A or B.

5. Have fun and invent your own combinations, too!

Suggestions:
Welcome group discussion and debate about which lot designs will work best. The more input you get, the easier it will be to make an informed decision about your lot.
A: Pick a good option

1. Distribute all of the cards evenly to everyone in the group. Each person should lay their cards face up in front of them.

2. Ask your group the following initial question:
   Based on what you know about your lot and your neighborhood vision, which design(s) would you want in your neighborhood?

3. Have each person select one or more lot design cards from their bundle, and share a brief explanation as to why they selected the lot design(s).

4. Discuss any new ideas as a larger group. Take note of questions or concerns in the section below for notes.

5. Continue to go around the circle and answer the following questions:
   • Does the cost of the lot design fit within our budget?
   • Do the skills of our identified volunteers match the experience required for the lot design?
   • Do you think we will have time for upkeep of the lot?
B: Combine or make your own

1. Gather the cards everyone selected from their individual piles and discussed in Activity A. Lay them down in the middle so everyone can see them. Ask your group the following questions:
   - Would a combination of two or more of these lot designs work better for our lot?
   - Are there ideas we could take from the lot designs or from elsewhere and then combine with some of our own ideas to create a unique lot design?

2. Give each group member a chance to share his or her thoughts. Record everyone’s ideas on a large sheet of blank paper.

3. If your group is leaning in the direction of combining lot designs, begin to group cards together. Take notes on what parts of each lot design the group wants to blend.

4. If your group is excited about creating a unique lot design, consider the variables listed on the back of the lot design cards.
   - How does your lot design compare?
   - What features does it have?

5. Fill out the blank lot design cards or print additional ones, if needed.
   - Does the cost of the lot design fit within our budget?
   - Do the skills of our identified volunteers match the experience required for the lot design?
   - Do we think that we will have time for upkeep of the lot?

Notes

You have the freedom to mix and match, too!
Lot Design Template Flash Cards

Native Butterfly Meadow

Royal Rain Garden

Dumping Preventer

Summer Shade
Royal Rain Garden
The Royal Rain Garden design is a six-inch bowl that captures stormwater and slowly releases it into the soil, keeping it from entering Kansas City’s overtaxed sewerage system.

<table>
<thead>
<tr>
<th>People</th>
<th>Volunteer</th>
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</thead>
<tbody>
<tr>
<td>Experience</td>
<td>Intermediate</td>
</tr>
<tr>
<td>Upkeep</td>
<td>Medium</td>
</tr>
<tr>
<td>Stormwater Management</td>
<td>Better</td>
</tr>
<tr>
<td>Cost</td>
<td>$50–1,000</td>
</tr>
</tbody>
</table>

Native Butterfly Meadow
The Native Butterfly Meadow is a Missouri native meadow designed for beautification, habitat creation and to attract pollinators, like the monarch butterfly.

<table>
<thead>
<tr>
<th>People</th>
<th>Volunteer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experience</td>
<td>Beginner–Intermediate</td>
</tr>
<tr>
<td>Upkeep</td>
<td>Medium</td>
</tr>
<tr>
<td>Stormwater Management</td>
<td>Good</td>
</tr>
<tr>
<td>Cost</td>
<td>$2,500–5,500</td>
</tr>
</tbody>
</table>

Summer Shade
The Summer Shade emphasizes working with the resources at hand and on-site. This lot design is great for properties with an unruly woodland or a collection of small trees.

<table>
<thead>
<tr>
<th>People</th>
<th>Volunteer + Professional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experience</td>
<td>Intermediate</td>
</tr>
<tr>
<td>Upkeep</td>
<td>Medium</td>
</tr>
<tr>
<td>Stormwater Management</td>
<td>Best</td>
</tr>
<tr>
<td>Cost</td>
<td>$50–1,000</td>
</tr>
</tbody>
</table>

Dumping Preventer
The Dumping Preventer is designed to reduce the risk of illegal dumping on your lot. A planted barrier prevents vehicles and people carrying debris from accessing the lot from the street and through the alley.

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<thead>
<tr>
<th>People</th>
<th>Volunteer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experience</td>
<td>Beginner</td>
</tr>
<tr>
<td>Upkeep</td>
<td>Low</td>
</tr>
<tr>
<td>Stormwater Management</td>
<td>Good</td>
</tr>
<tr>
<td>Cost</td>
<td>$1,000–2,500</td>
</tr>
</tbody>
</table>
### Four Seasons
The Four Seasons lot design provides four small, interchangeable landscapes (‘season circles’), each reflecting one season: spring, summer, fall, and winter.

<table>
<thead>
<tr>
<th>People</th>
<th>Volunteer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experience</td>
<td>Intermediate</td>
</tr>
<tr>
<td>Upkeep</td>
<td>Medium</td>
</tr>
<tr>
<td>Stormwater Management</td>
<td>Best</td>
</tr>
<tr>
<td>Cost</td>
<td>$2,500-5,500</td>
</tr>
</tbody>
</table>

### Party Lot
The Party Lot brings new activity to a neighborhood by providing a small pocket park, family gathering space, or community hub.

<table>
<thead>
<tr>
<th>People</th>
<th>Volunteer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experience</td>
<td>Intermediate</td>
</tr>
<tr>
<td>Upkeep</td>
<td>Medium</td>
</tr>
<tr>
<td>Stormwater Management</td>
<td>Good</td>
</tr>
<tr>
<td>Cost</td>
<td>$2,500-5,500</td>
</tr>
</tbody>
</table>


Make Connections
Open up the door to resources
## Helpful organizations

The following is a list of Kansas City, MO., area agencies, businesses and others with experience, practical knowledge, and resources to help you organize, plan and develop your UNI Vacant to Vibrant neighborhood lot designs. The list does not represent all available resources, but rather those that are frequently used by and convenient to Urban Neighborhood Initiative (UNI) residents.

### DETERMINE LAND OWNERSHIP/MAPPING

**Online Mapping**

<table>
<thead>
<tr>
<th>City of Kansas City, MO</th>
<th>Search for your lot by location, landmark, or parcel number</th>
</tr>
</thead>
<tbody>
<tr>
<td>816-513-1500</td>
<td><a href="http://maps.kcmo.org/apps/parcelviewer/">http://maps.kcmo.org/apps/parcelviewer/</a></td>
</tr>
<tr>
<td>414 E. 12th St., City Hall, 15th Floor, Kansas City, MO 64106</td>
<td></td>
</tr>
</tbody>
</table>

### Acquiring Property

<table>
<thead>
<tr>
<th>Land Bank of Kansas City</th>
<th>The Land Bank of Kansas City, MO, will acquire, manage, and transfer properties in an appropriate manner that satisfies community needs, creating beneficial uses and opportunities for economic development and neighborhoods.</th>
</tr>
</thead>
<tbody>
<tr>
<td>816-513-9020</td>
<td><a href="http://www.kcmolandbank.org/">http://www.kcmolandbank.org/</a></td>
</tr>
<tr>
<td>4900 Swope Parkway, 2nd Floor Kansas City, MO 64130</td>
<td></td>
</tr>
</tbody>
</table>

### Legal Assistance

<table>
<thead>
<tr>
<th>Legal Aid of Western Missouri</th>
<th>Legal Aid is the only organization in western Missouri that provides free, comprehensive civil legal services to low-income people. Legal Aid collaborates with other community organizations working on housing, health care, public assistance, domestic violence and other issues to solve community problems. Call for assistance.</th>
</tr>
</thead>
<tbody>
<tr>
<td>816-474-6750</td>
<td><a href="http://lawmo.org/">http://lawmo.org/</a></td>
</tr>
<tr>
<td>4001 Blue Parkway, Suite 300, Kansas City, MO 64130</td>
<td></td>
</tr>
</tbody>
</table>

### EQUIPMENT RENTAL

**Tool and Equipment Rental**

<table>
<thead>
<tr>
<th>Bledsoe’s Rental</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>816-363-5660</td>
<td><a href="https://bledsoesrental.stihldealer.net/">https://bledsoesrental.stihldealer.net/</a></td>
</tr>
<tr>
<td>7749 Wornall Rd., Kansas City, MO 64114</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Home Depot - Midtown</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>816-931-7434</td>
<td><a href="http://www.homedepot.com/c/lawn_and_garden_equipment_rental">http://www.homedepot.com/c/lawn_and_garden_equipment_rental</a></td>
</tr>
<tr>
<td>111 E. Linwood Blvd., Kansas City, MO 64111</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tool and Equipment Rental</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>City Rent a Truck</td>
<td></td>
</tr>
<tr>
<td>816-561-8700</td>
<td><a href="http://www.cityrentatruck.com/">http://www.cityrentatruck.com/</a></td>
</tr>
<tr>
<td>4620 Virginia Ave., Kansas City, MO 64110</td>
<td></td>
</tr>
</tbody>
</table>
## UNDERSTAND SOIL

### Soil Testing

<table>
<thead>
<tr>
<th>Lincoln University Cooperative Extension</th>
<th>816-841-3958</th>
<th><a href="https://www.lincolnu.edu/web/cooperative-extension">https://www.lincolnu.edu/web/cooperative-extension</a></th>
<th>Kansas City Urban Impact Center</th>
<th>1028 The Paseo Boulevard, Kansas City, MO 64106</th>
<th>Tina Wurth, Regional Educator, <a href="mailto:wurtht@lincolnu.edu">wurtht@lincolnu.edu</a></th>
</tr>
</thead>
</table>

Basic soil testing analyzes nutrient content and fertility status. Results include fertilizer and lime recommendations. Additional tests are available for nutrient management plans, environmental issues, potting mixes, compost, manure and water usage. Each sample should contain about 1½ cups of dry soil from 6 to 7 inches deep. Consult with the Extension Service’s soil testing publications for specific instructions. Results are typically provided within two weeks.

<table>
<thead>
<tr>
<th>University of Missouri Extension, Jackson County</th>
<th>816-482-5850</th>
<th><a href="http://extension.missouri.edu/jackson/services.aspx">http://extension.missouri.edu/jackson/services.aspx</a></th>
<th>105 E. 5th St., Suite 200, Kansas City, MO 64106</th>
</tr>
</thead>
</table>

| AgSource Laboratories | 402-476-0300 | http://agsource.crinet.com | 300 Speedway Circle, Suite 2, Lincoln, NE 68502 | labinfo@agsource.com |

Costs more than MU but tests include broader assessment and results are provided more quickly.

| Turf & Soil Diagnostics | 855-769-4231 | http://www.turfdiag.com | 613 E. 1st St. Linwood, KS 66052 | lab@turfdiag.com |

Costs more than MU but tests include broader assessment and results are provided more quickly.


### TREES PLANTING RESOURCES

<table>
<thead>
<tr>
<th>Heartland Tree Alliance</th>
<th>816-561-1087</th>
<th><a href="https://bridgingthegap.org/heartland-tree-alliance/">https://bridgingthegap.org/heartland-tree-alliance/</a></th>
<th>1427 W. 9th St., Suite 201, Kansas City, MO 64101</th>
<th>Heartland Tree Alliance, a Bridging the Gap program, educates people about the critically important benefits created by urban trees, why these trees need extra care, and the proper ways to give them that care. The Alliance organizes planting and pruning events, and tree care workdays to help people get involved.</th>
</tr>
</thead>
</table>

| Missouri Conservation Alliance | 816-759-7305 | https://mdc.mo.gov/trees-plants | Anita B. Gorman Discovery Center | 4750 Troost Ave., Kansas City, MO 64110 | Contact Wendy Sangster at wendy.sangster@mdc.mo.gov |


| Turf & Soil Diagnostics | 855-769-4231 | http://www.turfdiag.com | 613 E. 1st St. Linwood, KS 66052 | lab@turfdiag.com |

Costs more than MU but tests include broader assessment and results are provided more quickly.
### URBAN FARMING AND GARDENING RESOURCES

#### Edible Garden Resources

<table>
<thead>
<tr>
<th>Resource</th>
<th>Contact Information</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cultivate KC</td>
<td>(913) 831-2444, <a href="http://www.cultivatekc.org/">http://www.cultivatekc.org/</a> 4223 Gibbs Rd., Kansas City, KS 66106</td>
<td>Cultivate Kansas City is a locally-grown non-profit working to grow food, farms and communities for a healthy local food system.</td>
</tr>
<tr>
<td>Kansas City Community Gardens</td>
<td>816.931.3877, <a href="http://kccg.org/">http://kccg.org/</a> 6917 Kensington, Kansas City, MO 64132</td>
<td>Kansas City Community Gardens (KCCG) assists low-income households and community groups in the Kansas City metropolitan area in producing vegetables and fruit from garden plots located in backyards, vacant lots, and at community sites. KCCG supports Kansas City’s gardeners as they work to transform the food system, along with their nutritional habits, in backyard and community garden spaces throughout the metropolitan area.</td>
</tr>
</tbody>
</table>

### EASY AND SAFE CONSTRUCTION

#### Underground Utility Location Service, Missouri

<table>
<thead>
<tr>
<th>Resource</th>
<th>Contact Information</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Missouri One Call System</td>
<td>1-800-DIG-RITE, <a href="https://www.mo1call.com/homeowners/index.php">https://www.mo1call.com/homeowners/index.php</a></td>
<td>By law, you are required to make your locate request three working days before you plan to dig. Weekends, State and Federal holidays do not count toward the three working days.</td>
</tr>
</tbody>
</table>

#### Report a Downed Power Line, Kansas City, MO

<table>
<thead>
<tr>
<th>Resource</th>
<th>Contact Information</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kansas City Power &amp; Lighting (KCP&amp;L)</td>
<td>1-888-LIGHT-KC, <a href="https://www.kcpl.com/about-kcpl/safety">https://www.kcpl.com/about-kcpl/safety</a></td>
<td>The online form and automated phone line are the quickest ways to get information to crews. For your safety, please stay at least 10 feet away from power lines, meters and other electrical equipment. Always assume a downed power line is &quot;live&quot;. Dial 911 if you are facing a life-threatening emergency.</td>
</tr>
</tbody>
</table>

#### Plan Review, Permitting, and Change of Use Forms

<table>
<thead>
<tr>
<th>Resource</th>
<th>Contact Information</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Kansas City Planning and Development</td>
<td>816-513-1500, <a href="http://kcmo.gov/planning/building-permits-2/">http://kcmo.gov/planning/building-permits-2/</a> 414 E. 12th St., City Hall, 15th floor, Kansas City, MO 64106</td>
<td>The Division issues construction related permits, zoning determinations and clearances, and verification letters for lending institutions. The Division processes applications related to construction permits from permit submission to issuance. Staff also oversees contractor licensing.</td>
</tr>
</tbody>
</table>
## DISPOSAL

### Roll Off Dumpster

<table>
<thead>
<tr>
<th>City of Kansas City, MO</th>
<th>From May through October, neighborhood groups registered with the City can obtain dumpsters at a reduced cost of $60 for each 40 cubic yard dumpster. Dumpsters must be used for neighborhood clean-up events only. Because funding for the dumpsters is limited, they are available on a first-come, first-served basis. Complete and mail a Dumpster Request Form and check made out to “City Treasurer” to the City at the address listed in this chart no later than three weeks prior to the scheduled event.</th>
</tr>
</thead>
<tbody>
<tr>
<td>816-513-6992</td>
<td></td>
</tr>
<tr>
<td><a href="http://kcmo.gov/neighborhoods/neighborhood-cleanup-assistance-programs/">http://kcmo.gov/neighborhoods/neighborhood-cleanup-assistance-programs/</a></td>
<td></td>
</tr>
<tr>
<td>NCAP Program, Department of Public Works C/O Marleen Leonce, 4900 Swope Parkway, Kansas City, MO, 64130</td>
<td></td>
</tr>
</tbody>
</table>

### Landfill

<table>
<thead>
<tr>
<th>Jackson County, MO Kansas City Facility</th>
<th>Located just south of the Chouteau Bridge in the East River Bottoms. Hours: Thursday, Friday and Saturday, 9 a.m.- 4 p.m. No Appointment Required.</th>
</tr>
</thead>
<tbody>
<tr>
<td>816-513-8400</td>
<td></td>
</tr>
<tr>
<td><a href="http://www.jacksongov.org/465/Disposal-Sites">http://www.jacksongov.org/465/Disposal-Sites</a></td>
<td></td>
</tr>
<tr>
<td>4707 Deramus Ave., Kansas City, MO 64120</td>
<td></td>
</tr>
</tbody>
</table>

### Brush + Bulk Debris Collection

<table>
<thead>
<tr>
<th>City of Kansas City, MO; KC Water</th>
<th>KCMO has two curbside yard waste collection dates every year through KC Water. They occur on your regular trash day. See website for schedule.</th>
</tr>
</thead>
<tbody>
<tr>
<td>816-513-1313</td>
<td></td>
</tr>
<tr>
<td><a href="https://www.kcwaterservices.org/programs/leaf-brush/">https://www.kcwaterservices.org/programs/leaf-brush/</a></td>
<td></td>
</tr>
<tr>
<td>4800 E. 63rd St., Kansas City MO 64130</td>
<td></td>
</tr>
</tbody>
</table>

### Dead Animal Removal

<table>
<thead>
<tr>
<th>City of Kansas City, MO</th>
<th>Problems can be reported by phone or by using an online form, online map, twitter (@KCMO311), mobile app (iOS and Android), walk-in (self service station with 311 phone on the first floor of City Hall), fax (816-513-1303), or mail, 311, City Hall, 414 E. 12th St, Kansas City, MO 64106.</th>
</tr>
</thead>
<tbody>
<tr>
<td>311 or 816-513-1313</td>
<td></td>
</tr>
<tr>
<td><a href="http://kcmo.gov/311/">http://kcmo.gov/311/</a></td>
<td></td>
</tr>
<tr>
<td>City Hall, 414 E. 12th St., Kansas City, MO 64106</td>
<td></td>
</tr>
</tbody>
</table>

### REPORT YOUR CONCERNS

Illegal Dumping, Property Maintenance, Fallen Trees, Bulky Item Trash Pickup, Code Violations, and Other City Services

<table>
<thead>
<tr>
<th>City of Kansas City, MO</th>
<th>Problems can be reported by phone or via an online form, online map, twitter (@KCMO311), mobile app (iOS and Android), walk-in (self service station with 311 phone on the first floor of City Hall), fax (816-513-1303), or mail, 311, City Hall, 414 E. 12th St, Kansas City, MO 64106.</th>
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<tr>
<td><a href="http://kcmo.gov/311/">http://kcmo.gov/311/</a></td>
<td></td>
</tr>
<tr>
<td>City Hall, 414 E. 12th St., Kansas City, MO 64106</td>
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</tbody>
</table>
Acknowledgements

UNI Vacant to Vibrant: A Guide to Working with Lots was developed with a considerable amount of volunteer time and effort. The Urban Neighborhood Initiative wishes to thank all who devoted their time, ideas and expertise to this effort so that residents of Kansas City, Missouri, neighborhoods are empowered to transform vacant lots into vibrant spaces. Your contributions are cherished.

Individuals & Organizations

David Dods, AECOM
Elliott Duemler, Applied Ecological Services
Alecia Kates, Mid-America Regional Council
Hilary Noonan, Syntax Land Design, LLC
Kitty Steffens, Mid-America Regional Council
Lisa Treese, Kansas City Water Services
Roberta Vogel-Leutung, U.S. Environmental Protection Agency, Region 7
Vera Williams, Surface Water Solutions

Special thanks to the Kansas City, Missouri, neighborhood residents and others who participated in the initial UNI Focus Group that explored ways the Guide and lot designs could help transform Kansas City vacant lots. Focus Group members are:

Jeanene Dunn, Beacon Hill-McFeders Neighborhood
Virginia Henderson, Ivanhoe Neighborhood
Gloria A. Love, Boston Heights-Mount Hope Neighborhood
Gregory McClinton, Urban Resident
Gwen Rapp, Boston Heights-Mount Hope Neighborhood
Don Reck, Center City Garden and Urban Resident
Lena Rose, Wendell Phillips Neighborhood

The development of the UNI Vacant to Vibrant: A Guide to Working with Lots was funded by the U.S. Environmental Protection Agency’s Urban Waters program as a project of the Middle Blue River Urban Waters Federal Partnership in Kansas City, Missouri. The partnership works to help communities revitalize through the restoration of green space and brownfields, and community engagement to connect people to the Blue River.
Share your feedback

Reach out to UNI!
CALL | 816-231-0822

EMAIL | field-guide@KansasCityfuturecity.com

WEBSITE | www.uni-kc.org

STOP BY THE Kansas City UNI OFFICE

Two Pershing Square
2300 Main St., Suite 180
Kansas City, MO 64108

• View printed versions of Guide lot design templates
• Pick up a printed copy of the Guide
• Get help using this book or the website