Signage Plan for the Prairie Acre Restoration Project

Figure 1: Photo taken by Halle McCourt at the Prairie Acre, University of Kansas.

EVRN 615 Capstone Project

By Halle McCourt, Nathan Bunkers, Amy Smith, Alex Sosinski, Anna Dietz, and Trudy Rubick

Spring 2016
Acknowledgements

Our Capstone group would like to thank those that have guided, assisted, and encouraged us throughout the creation of this project. First and foremost, we would like to extend our sincerest gratitude to our passionate professor, Kelly Kindscher. Without Kelly’s help, we would not have been able to put the heart and dedication into this project that it very much so deserves. Furthermore, we would also like to thank graduate teaching assistants Laurel Sears and Victoria Walsey for their guidance and oversight throughout this endeavor. Last but not least, we would like to thank Jeff Severin and Kirsten Bosnak for sharing their knowledge on the subject with us and pushing us in the right direction.
Table of Contents

1. Abstract
2. Introduction
3. Sign Design
   A. Sign Inspiration
   B. Sign Templates
4. Sign Content
   A. Large Information Sign for Demonstration Garden
   B. Large Information Sign for Prairie Acre
   C. Large Information Sign for Prairie Acre Option 2
5. Sign Placement
6. Timeline
   A. Phase 1
   B. Phase 2
   C. Phase 3
   D. Phase 4
   E. Phase 5
7. Budget
8. Conclusion
9. Bibliography
10. Appendix
1. Abstract

During the Spring Semester of 2016, the Signage Group from the Environmental Studies Capstone Class created a plan to provide signage to the Prairie Acre, an area located on the Southeast side of The University of Kansas left untouched by development. The objective of the group has been to research costs and designs to create an aesthetically pleasing, informative, and educational signage system around the Prairie Acre. This includes small informational signs for the demonstration garden and larger, informative signs to provide a historical background about the acre and the species that have inhabited it. Through their work with local and national signage businesses and the Site Design Group, the Signage Group created a collection of options to allow for the Prairie Acre to have an effective signage system at a reasonable price with appropriate forms of signs in specific locations along the acre including the main viewing area, the demonstration garden, and from the street as visitors arrive on campus. The group’s intentions are to create signs that will provide visitors with the background information they need to appreciate the history, aesthetic appeal, and value of the Prairie Acre to the University of Kansas community.

2. Introduction

In 1966 Elmer F. Beth, a professor at the KU School of Journalism wrote a letter to Chancellor Wescoe hailing the Prairie Acre for it’s unique historical significance and suggested that the University erect an attractive marker to welcome all to the Prairie Acre (Beth 1966). Now, a half-century later, Beth’s suggestion is becoming a long overdue reality. Currently, the Prairie Acre is identified by a bronze plaque from 1932, which commemorates the site’s legitimacy as a landmark of the campus, although it currently does not even reside near the acre as it used to. While the plaque is of historic value, it does very little in the way of promoting or
welcoming faculty, students, and visitors to this hidden gem on campus. Our project not only seeks to make the site a more identifiable landmark at KU, but also an informative and educational site for faculty, students, and visitors alike. In the following pages we put forth a proposal for signage at the Prairie Acre.

We will introduce a few sign designs inspired by existing signs on the KU campus with the assistance of Kirsten Bosnak of the Kansas Biological Survey. The goal for the content of the signs is to provide educational information about prairie restoration and the Prairie Acre in an easy to read format. We propose to have two large signs: one located north of the acre near the proposed site of the demo garden, and one located at the northwest terrace of the acre near the existing stairs. The large sign in the demo garden will feature the information on important pollinators, proper care and management, and various pictures of native plants. The large sign near the stairs will feature the history of the Prairie Acre with relationship to the greater ecological significance of North American prairies. We continue by providing an outline of five phases in which we believe would be most efficient in regards to budget and logical sequence. Lastly, we end our signage proposal with recommendations regarding the companies we believe are best suited for the Prairie Acre project and also the estimated costs.

3. Sign Design

A. Sign Inspiration

To get inspiration for the signs that are planning to be placed at Prairie Acre, we visited the Pharmacy Garden outside of the Pharmacy Building on West Campus. Kirsten Bosnak, the Communications Director at the Kansas Biological survey, was the coordinator for the signs currently at the Pharmacy Garden. The larger signs at this site (refer to Figure 3 and 4 in
Appendix A) were purchased from Pannier Signs, a company based out of Gibsonia, Pennsylvania while the smaller signs (refer to Figure 2 in Appendix A) are from a company in Wichita called Lark Label (Bosnak). We hope to balance the needs of the Prairie Acre site with the commonly used signs on other parts of campus. To get an understanding of effective signage in educational spaces, we relied on the sources we had found depicting the traits that the most effective forms of signage contain. In “Educating Trail Users: Advice for Planning Interpretive Trail Signs and Exhibits”, Laura Westrop of California State Parks highlights important information to take into consideration when creating signage. Her advice included understanding the audience that will be reading the sign, use eye-catching shapes and readable fonts, and make the message fun (Westrop). This way, the audience is engaged and informed of the information that is being conveyed on the signs. “Learning on the Trail: A content Analysis of a University Arboretum’s Exemplary Interpretive” from *The American Biology Teacher* gives criteria to create a successful implementation of informative signs. Some highlights from the information provided that will be used on all the signs will include an approximate 80 words maximum with an eighth grade reading level in conversational style. Additionally, graphics will be included and will promote critical thinking and meaning making (Wandersee).

The Pharmacy Garden signs (Figures 2, 3, and 4 in Appendix A) are helpful because they provide information needed as an inspiration for the Prairie Acre signs and were an affordable price, which will be discussed further in the Budget section. But, our plan for the plant identification signs at the Prairie Acre is for them to not have the same amount of text as the small signs in Figure 2 at the Pharmacy Garden contain (refer to Appendix A). The Pharmacy Garden identification signs provide generalized information about the plant including where it originates, what it is used for, and the root of the Latin word that the plant’s name derives. Instead of the
general information about the plant that is present in the Pharmacy Garden, in two sentences or less, we will provide specific information about the plant that is to the point including the name of the plant and its origin.

Figure 3 is the largest of the signs purchased from Pannier Signs at the Pharmacy Garden (refer to Appendix A). This sign is the ideal size that we would like to have for our informational or historical background signs at the Pavilion or the main Prairie Acre viewing site. It is the ideal size because of its ability to display the necessary information to educate the audience of the Prairie Acre. In comparison between Figure 3 and the sign that will be at Prairie Acre, we think that it would be more aesthetically pleasing to have less text because visitors will be more likely to read the signs when they have less text. We plan to have larger text that highlights the history of the site and can be read quickly. The information that will be provided on the sign is discussed further in the Content section. The sign will also have images included that will balance the text to create an appealing visual for visitors to the site.

Figure 4 is also from Pannier Signs and is on display at the Pharmacy Garden (refer to Appendix A). We think that this sign would be useful for some rudimentary information about prairies in general. It would have less text compared to this sign and be less expensive because of its small size. As mentioned previously, cost is discussed in depth in the Budget section. Extensive text is not the message that we would prefer to have on our signs because we want our signs to be more to the point and direct with their textual information. The content that will be discussed on the sign that is similar to Figure 4 is examined in the Content section.
B. Sign Templates

Large Demonstration Garden Sign: 24”/36”

We chose to make the font large and sans serif in order to make it look more polished and professional, while grabbing people’s attention. According to the New York State Park Service guide on informational signs, with these font sizes the main title should be viewable within 55ft, the sub-sections within 41 ft, and the detailed information within 20. When there is too much small text it is difficult to read a lot less likely to be appealing to most people; in order to make the signs visible and to draw attention to the prairie acre, a large font size visible from a distance is necessary. For full size images of all templates refer to Appendix C.

Large Intro to Prairie Acre Sign: 24” by 36”

For this sign, which offers the first glance most people will have of the prairie acre includes a lot of information about the acre history, maintenance and ecology. We created two options for this sign to give donors and KU a choice in which they feel better fits the aesthetic. We could use fundraising strategies such as “vote with your dollar” to which one better fits the
Prairie Acre. These font sizes fit well within the parameters of the sign size, providing sufficient room for the text and large photos.
Small Demonstration Garden Signs: 4”/6”

This plant identification sign template for the demonstration garden will be produced by Lark Labels, the same company that produced the plant identification signs for the University of Kansas Pharmacy and Native Medicinal Garden plants. The same signs will be used to provide consistency throughout the University demonstration gardens to maintain the aesthetic.

4. Sign Content

A. Large Information Sign for Demonstration Garden:

*Pollinator Section:* As flowers come into bloom at Prairie Acre, we are visited by a wide variety of pollinators. Butterflies like the Monarch, in addition to honeybees, are a part of the pollinators that frequent the area. Did you know moths, ants, wasps, beetles, and flies can also be pollinators?¹ All of these insects play a vital role in a healthy prairie.

¹ See Marks “Native Pollinators”
Native Medicinal Plants Section: There are many plants that can be found in the prairie, and each has their own use. Can you find some of these medicinal plants?

Butterfly Milkweed is used to treat open wounds and can act as an antidote to poison.

Beebalm, a member of the mint family is used as seasoning and tea. It can also act as a cure for the common cold! Tall Boneset is less showy than the Butterfly Milkweed and Beebalm, but it is also useful for breaking fevers or bringing someone out of the flu.

These medicinal plants are just the tip of the iceberg. In many ways, a stroll through the prairie is like walking down the aisles of a drugstore. For more information, check out the field guide by following the QR code!

B. Large Information Sign for Prairie Acre:

History Section: This patch of prairie before you has been prairie since long before any of these houses or buildings on campus were here. It has never been plowed or developed, and it is the last piece of the native prairie that would have once covered Mt. Oread. The Prairie Acre was officially designated by campus officials to be left alone in 1932 and it was, for the most part, left alone. After an 80% species diversity loss, the Capstone class in the Environmental Studies Program at KU started an active restoration initiative for this patch of prairie in 2016.

Ecology/Importance Section: Since the colonization of North America, prairie acreage has been shrinking. This patch of prairie is a tiny fraction of the 4% of prairie left. There are more than 500 different species of plant that can be found in a prairie. How many different species can you find in Prairie Acre? Prairies prevent water runoff and hold the soil together. This helps water

---

2 See Kindscher “Medicinal Wild Plants of the Prairie”
3 See “Community Coming Together to Restore the Prairie Acre”
4 See NPS Tallgrass Prairie National Preserve “Plants at the Preserve”
soak into the ground. Prairies are incredibly resilient – and they have to be to survive so well in Kansas. With harsh winters and hot, dry summers, a prairie has to be versatile. It can withstand fire, high winds, freezing temperatures, and drought. Did you know? Fire is actually very important to a healthy prairie. A lack of regular burning is part of what led this prairie to lose so many of its plant species. This prairie may be small, but it provides food and shelter for the creatures that need it.

Animal Section: Many creatures rely on these ecological services provided by the prairie. Large tracts of prairie are home to grazers like deer and bison, in addition to many birds, small rodents, foxes, and ferrets. Because it is so isolated and small, our Prairie Acre does not get to see the bison, ferrets, badgers, or beavers that you might find in a larger prairie. We do have frequent visitors in foxes, raccoons, rabbits, mice, lizards, and many birds and bats. Several of these visitors aren’t visitors at all. If you go out into the prairie and look, you might just find some of their homes!

C. Large Information Sign for Prairie Acre Option 2:

History Section: This patch of prairie before you has been prairie since long before any of these houses or buildings on campus were here. It has never been plowed or developed, and it is the last piece of the native prairie that would have once covered Mt. Oread. The Prairie Acre was officially designated by campus officials to be left alone in 1932 and it was, for the most part, left alone. After an 80% species diversity loss, the Capstone class in the Environmental Studies Program at KU started an active restoration initiative for this patch of prairie in 2016.

Importance Section: Since the colonization of North America, prairie acreage has been shrinking. This patch of prairie is a tiny fraction of the 4% of prairie left. There are more than 500

---

5 See “Prairie - Benefits of Restoration”
6 See NPS Tallgrass Prairie National Preserve “Animals at the Preserve”
different species of plant that can be found in a prairie. How many different species can you find in Prairie Acre? Prairies prevent water runoff and help hold the soil together. This helps water soak into the ground. There are many insects and animals whose survival is dependent upon a healthy prairie. This prairie may be small, but it provides food and shelter for the creatures that need it.

5. Sign Placement

The signage group has created a layout (refer to Map 1 in Appendix B) that designates where we believe the signs would best be suited to the Prairie Acre site. The placement of the signs was well thought out, as they are placed in areas that are currently heavily trafficked in order to appeal to the visitors that will be reading them while visiting the site. Following the descriptions of the signs are references to their proposed locations in the map.

First, there will need to be a sign that signifies the construction or restoration that will be occurring at the Prairie Acre. We propose this sign should be placed near the sidewalks at the northeast part at the intersection of Sunnyside Avenue and Sunflower Road, as it will notify the public who pass this area. This area is heavily trafficked and we believe it will inform the greatest amount of people passing by. Next, we have determined that a sign should be placed at the top of the Prairie Acre, where the two sidewalks meet up, that will be dedicated to the Prairie Acre (blue square in Map 1). This sign will include the original, bronze plaque created in 1932 and will be embedded in a piece of limestone that the University is acquiring. We believe this is the most appropriate spot for this sign because visitors will be able to look down onto the Prairie Acre as they read about the historical significance of the site. The view from this location overlooks the entire Prairie Acre, which is important to the restoration of the site itself, as the visual of the
growing Prairie Acre hopes to attract more visitors. We also propose a design for signs that will be placed at the demonstration garden, which will be smaller (3x2 in. to 7x5 in.) plant identification signs (green asterisks in Map 1). There will be approximately 16 of these signs and they will be placed in the northeast corner of the Prairie Acre. The identification signs will be placed throughout the demonstration garden to identify the plants and grasses that are in the Prairie Acre environment. The next sign is a large informational sign and we propose that it should be placed on the northwest side of the Prairie Acre along the sidewalk that runs up along the site (the left star of the two yellow stars in Map 1). We recommend that this sign should be placed here so that visitors can overlook the Prairie Acre, while learning about what the prairie ecosystem has to offer and how its preservation benefits the area. This is the best location for this sign due to the presence of the sidewalk, which will give the visitors a marked pathway to reach the sign without disturbing the Prairie Acre. Additionally, we have decided a stone sign that reads *University of Kansas* should go on the southwest corner of the Prairie Acre site (red KU in Map 1), to signify the campus boundary and to adhere to campus sign uniformity. This sign would look similar to the *University of Kansas* stone sign that is at the university entrance at the southeast corner of the 15th and Iowa Street intersection, just in front of the KU Visitor’s Center. Finally, we decided that we could place one large, informational sign near the outdoor classroom area (the right star of the two yellow stars in Map 1). The current site design plan of the outdoor classroom describes a semi-circle of timber benches or a gazebo, both of which could use the large, informational sign to convey more information about the Prairie Acre.

The layout for the placement of these signs is a crucial decision for this project, as they will help to signify what the Prairie Acre is and why there are reasons to preserve it. We designed these signs to be placed in areas that are heavily trafficked in order to reach out to the greatest
amount of visitors. Also, the spread-out locations of the signs will help distribute the visitors so that groups will not all be bunched together, which will lead to more helpful and educational visits. As the Prairie Acre continues to grow, we hope for the addition of more signs as the Prairie Acre Restoration Project sees fit.

6. Timeline

A. Phase 1

The first phase of sign implementation is the construction sign, which will clearly establish the Prairie Acre as a conservation area in progress. At the time of this project (Spring 2016), the sign is currently a work in progress; a watercolor is being painted by a KU Art and Design Student. This sign will be used to draw in donations for further signage and projects in the Prairie Acre during the initial stage of signage at the Prairie Acre. Without a sign to draw people’s attention to the acre, no one will know what is going on with the space; a sign inviting people to donate should drastically increase donations.

B. Phase 2

The second phase of our prairie restoration will involve the implementation of the old prairie acre bronze plaque, embedded in limestone. This plaque commemorates the establishment of the Prairie Acre and is important in establishing the site as a historic landmark on campus. Phase two is already in the process of being implemented at the time of this report, and there is a potential donor of a piece of limestone, according to Jeff Severin, head of the KU Center for Sustainability.
C. Phase 3

This phase will incorporate the majority of our work on this project; working in collaboration with the pollinators and site design group, we have planned for the addition of a demonstration garden above the Prairie Acre (refer to the map in Appendix B). This phase involves the incorporation of small (4” by 6”), plant-specific signs to offer the details of the prairie plants featured at the Prairie Acre. These signs will include basic taxonomical information on the plants and some information on their importance, drawn in part from the field guide. These signs will incorporate a QR code (a two-dimensional barcode which can be read by smartphones) with a link to several different pages on the Prairie Acre website. They will be placed next to “demonstration” plants, where a representative sample of the diverse species in the Prairie Acre will be displayed.

This phase also incorporates the large sign (2ft by 3ft) alongside the Prairie Acre wall, which will help to explain what the prairie restoration project entails, and also includes QR codes
that can lead readers to more detailed information on the Prairie Acre site. This sign will provide basic information on the history and ecology of the acre, and is estimated to cost around $900 (for breakdown see budget and Appendix D). Near the demonstration garden, we will incorporate a large educational sign outlining the role and importance of pollinators in the prairie acre. If there are budget constraints, this sign can be a medium educational sign (18” by 24”) to reduce cost. This will include some information on the particular plant species that attract and need pollinators, which will also be featured in the demonstration garden. Altogether this phase of our signage plan will cost around $2100 ($1800 for the two large signs and $350 for the small plant-specific demonstration garden signs).

D. Phase 4

The fourth phase of our Prairie Acre signage plan includes the installation of a University of Kansas sign, which will welcome visitors to the University of Kansas and establish Sunflower Road as an official Prairie Acre entrance to the University. The location of this sign will be along the rock wall at the intersection between Sunflower Road and Sunnyside Avenue (See map in Appendix B). This sign will need University funding, and it would enhance the campus aesthetic and distinguish the Prairie Acre as an entrance to campus. This University of Kansas sign will be similar to the sign at the southeast corner at the intersection of 15th and Iowa Street. Its placement is outlined on the map and in the “Sign Placement” section of this proposal.

E. Phase 5

The final phase of our signage plan includes the development of signage for a pavilion or outdoor classroom. These signs are the final phase of our site design because they will be very large and will require additional funding. The pavilion will provide extensive information on the history, ecology (including Prairie Acre species), and management of the site. While some of the
other signs may overlap the information in this one, it will act as an “overall” look at the Prairie
Acre, and will be large enough that it can easily be incorporated into the outdoor classroom,
providing an easy space for educational groups to teach or begin lessons involving the Prairie
Acre. Due to the distant nature of the implementation of this project, we do not provide sign
templates and plans for its development in this proposal.

7. Budget

Since the Prairie Acre does not have an exceptional amount of support as far as funding
goes, this budget section is a crucial component of the Signage Plan. From our meeting with
Kirsten Bosnak, we learned that a company called Full Bright Sign & Lighting located here in
Lawrence, Kansas is responsible for manufacturing KU’s signs around campus. Although this is
typically the University’s go-choice when establishing signage on campus, we decided to further
explore our options since working with this company will most likely not fit into the Prairie
Acre’s budget.

While we are not proposing that the Prairie Acre project utilizes Full Bright to create
signage, we thought it would be worthwhile to get price estimates from this company. For us,
these estimates are useful as they will be used as a point of reference when evaluating the signage
price estimates from other companies. Additionally, if the Prairie Acre project were to decide in
the future that Full Bright Sign & Lighting is in fact the company that best fits the project’s needs,
the estimates we received will be readily available.

Lark Label is another company that has been utilized at the University of Kansas for
projects very similar to our own according to Kirsten. Located in Wichita, Kansas, this company
has created several plant identification signs for KU’s Pharmacy Garden. Lark Label is the
company that we propose the Prairie Acre project goes through when creating and installing the
small signs at the demonstration garden in phase 3. From our perspective, KU has been successful in working with this company when creating the Pharmacy Garden and the signs there closely resemble what we are looking for at the Prairie Acre. Furthermore, their prices are very affordable. For these reasons, we believe that Lark Label should be utilized for this portion of the project.

Since some of our classmates have proposed that there be 16 different species of plants in the demonstration garden, our group recommends that the Prairie Acre project allocates around $350 for the small plant identification signs. This number is based on the prices listed in Table 1 below and includes the estimated cost of taxes. The exact cost will depend greatly on the dimensions and content that will be decided upon for the plant identification signs in the future. With this being said, the estimated $350 is based on the upper end of the price range according to the estimated costs we collected and makes the assumption that these signs will be 7”x5”, which may or may not be the case depending on future needs of the project.

<table>
<thead>
<tr>
<th>Company</th>
<th>Size</th>
<th>Cost</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lark Label</td>
<td>3”x2”</td>
<td>$10.95 (for 6-49 signs)</td>
<td>Plant identification</td>
</tr>
<tr>
<td>Lark Label</td>
<td>4”x2”</td>
<td>$10.95 (for 6-49 signs)</td>
<td>Plant identification</td>
</tr>
<tr>
<td>Lark Label</td>
<td>5”x3”</td>
<td>$12.95 (for 6-49 signs)</td>
<td>Plant identification</td>
</tr>
<tr>
<td>Lark Label</td>
<td>6”x4”</td>
<td>$15.95 (for 6-49 signs)</td>
<td>Plant identification</td>
</tr>
<tr>
<td>Lark Label</td>
<td>7”x5”</td>
<td>$20.95 (for 6-49 signs)</td>
<td>Plant identification</td>
</tr>
<tr>
<td>Lark Label</td>
<td>12”x18”</td>
<td>$595 for panel and $155 for post=$310</td>
<td>Educational sign</td>
</tr>
<tr>
<td>Lark Label</td>
<td>24”x18”</td>
<td>$595 for panel and $155 for post=$750</td>
<td>Pavilion/educational sign</td>
</tr>
<tr>
<td>Lark Label</td>
<td>36”x24”</td>
<td>$595 for panel and $310 for two posts=$1,215</td>
<td>Pavilion/educational sign</td>
</tr>
</tbody>
</table>
Another company that Kirsten recommended we look into utilizing for the Prairie Acre project is called Pannier Graphics and is located in Gibsonia, Pennsylvania. This company has created signs for several projects at the KU Field Station as well as the Pharmacy Garden, which means their signs meet the requirements for signage in KU’s clearly defined landscape plan. Fortunately, Pannier’s signs are much more affordable than those from Full Bright and are of the same, if not better, quality according to Kirsten (Bosnak). We propose that the Prairie Acre project employs Pannier Graphics to make the two larger educational signs for these reasons.

In phase 3 of the Prairie Acre’s timeline, we advised that a larger educational sign will need to be built alongside the site’s wall and another similar sign will be needed next to the demonstration garden. We suggest that the project allocates around $1,800 for these two larger signs. This number is based on the Pannier Graphics’ prices listed in Table 1 and includes the estimated cost of taxes. Again, the exact cost will depend significantly on the amount of content and the dimensions that will be decided upon the future. This $1,800 estimate is also based on the upper end of the price range according to the estimated costs we have collected and assumes that these signs will be 36”x24”. With this being said, we wanted to provide a safe estimate and therefore chose the most costly of signs from Pannier Graphics to base this number upon.

However, we feel that this is a very reasonable estimate considering if we were to go through Full

<table>
<thead>
<tr>
<th></th>
<th>12”x18”</th>
<th>$175 for panel and $320-$340 for post=$495-$515</th>
<th>Educational sign</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pannier Graphics</td>
<td>24”x18”</td>
<td>$250 for panel and $395 for post=$645</td>
<td>Pavilion/educational sign</td>
</tr>
<tr>
<td>Pannier Graphics</td>
<td>36”x24”</td>
<td>$365 for panel and $515 for post=$880</td>
<td>Pavilion/educational sign</td>
</tr>
<tr>
<td>Full Bright Signs &amp; Lighting</td>
<td>2-legged (similar in size to 24”x18”)</td>
<td>$1920 for panel and posts</td>
<td>Pavilion/educational sign</td>
</tr>
<tr>
<td>Full Bright Signs &amp; Lighting</td>
<td>4-legged (similar in size to 36”x24”)</td>
<td>$2556 for panel and posts</td>
<td>Pavilion/educational sign</td>
</tr>
</tbody>
</table>

Table 1: This table includes the price estimates our group has collected directly from numerous signage companies for several different sizes and types of signs.
Bright, the same size signs would amount to about $5,200. As another point of reference, if we were to go through Lark Label for these signs, they would cost approximately $2,500. Based on KU’s past experience working with this company and their very affordable prices, we think Pannier Graphics will be the right choice for the Prairie Acre’s larger educational signage.

<table>
<thead>
<tr>
<th>Company</th>
<th>Type</th>
<th>Size</th>
<th>Amount</th>
<th>Estimated Cost Allocated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lark Label</td>
<td>Plant identification signs</td>
<td>Small</td>
<td>16</td>
<td>$350</td>
</tr>
<tr>
<td>Pannier Graphics</td>
<td>Educational signs</td>
<td>Medium/large</td>
<td>2</td>
<td>$1,800</td>
</tr>
</tbody>
</table>

Table 2: This table includes the total costs that will need to be allocated for signage at the Prairie Acre as well as important details regarding these costs.

A total of $2,150 (refer to Table 2) should be set aside for signage at the demonstration garden and the nearby Prairie Acre. This number was calculated according to the price estimates we have collected from the companies we proposed that the project utilizes. This estimate, however, does not include embedding the plaque in limestone in phase 2 or installing the official KU sign in phase 4. In choosing the right companies to go through in creating the educational signage for the Prairie Acre, we can ensure that we are teaching the community the importance of prairie restoration in an affordable manner.

8. Conclusion

These signs will give the Prairie Acre a new look, helping draw people to a long overlooked area of campus. The KU welcome sign will be placed toward the intersection where it will provide a beautiful entrance to the campus while showcasing a part of campus not only deeply rooted in the history of KU but the history of Kansas. Our informational signs will invite generations of students and visitors to learn about the ecological significance of the Prairie and inspire them to continue efforts in environmental conservation and restoration. The bronze plaque
from 1932 will be set back into stone to honor the foresight of the KU students who set aside the area to be conserved. While signage is merely one piece in a larger revamped look for the Acre, we believe that it can bring out the educational and cultural aspects that make it such a special remnant. We hope that the signs will provide future generations with an enlightened sense of KU’s great history and revive a spirit that has been true to campus for close to a century.
9. Bibliography


Appendix

Appendix A:

Figure 2. Photo taken by Halle McCourt at the University of Kansas Pharmacy Garden. This is an example of a plant identification sign.
Figure 3: Photo taken by Halle McCourt at the University of Kansas Pharmacy Garden. This is an example of larger educational sign.
Figure 4: Photo taken by Halle McCourt at the University of Kansas Pharmacy Garden. This is an example of larger educational sign.
Appendix B:

Sign Placement at the Prairie Acre
Welcome to the University of Kansas Prairie Acre

Wetland and Maintaining the Prairie Acre

Why Should We Care About Prairie?

The Prairie Acre was officially dedicated by the campus officials to be the first of its kind developed at the University of Kansas. The Prairie Acre is a demonstration of the importance of wetlands in providing critical habitat for many native plants and animals.

What is the Prairie Acre Anyway?

The Prairie Acre can be visited during the academic year. There are many different species of plants and animals that can be found in the Prairie Acre.

In 2016, the Prairie Restoration Initiative for the area began in order to restore the original diversity of the area. The project has been a success, with many native species returning to the area.

How many different species can you find in the Prairie Acre?

There are more than 500 different species of plants that can be found in the Prairie Acre. The Prairie Acre is a great place to observe and interact with the diverse ecosystem of the area.

The Prairie Acre is a beautiful and important area that is worth visiting and learning more about.

Restoring and Maintaining the Prairie Acre

University of Kansas Prairie Acre
## Appendix D:

<table>
<thead>
<tr>
<th>Company</th>
<th>Size</th>
<th>Cost</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lark Label</td>
<td>3”x2”</td>
<td>$10.95 (for 6-49 signs)</td>
<td>Plant identification</td>
</tr>
<tr>
<td>Lark Label</td>
<td>4”x2”</td>
<td>$10.95 (for 6-49 signs)</td>
<td>Plant identification</td>
</tr>
<tr>
<td>Lark Label</td>
<td>5”x3”</td>
<td>$12.95 (for 6-49 signs)</td>
<td>Plant identification</td>
</tr>
<tr>
<td>Lark Label</td>
<td>6”x4”</td>
<td>$15.95 (for 6-49 signs)</td>
<td>Plant identification</td>
</tr>
<tr>
<td>Lark Label</td>
<td>7”x5”</td>
<td>$20.95 (for 6-49 signs)</td>
<td>Plant identification</td>
</tr>
<tr>
<td>Lark Label</td>
<td>12”x18”</td>
<td>$595 for panel and $155 for post=$310</td>
<td>Educational sign</td>
</tr>
<tr>
<td>Lark Label</td>
<td>24”x18”</td>
<td>$595 for panel and $155 for post=$750</td>
<td>Pavilion/educational sign</td>
</tr>
<tr>
<td>Lark Label</td>
<td>36”x24”</td>
<td>$595 for panel and $310 for two posts=$1,215</td>
<td>Pavilion/educational sign</td>
</tr>
<tr>
<td>Pannier Graphics</td>
<td>12”x18”</td>
<td>$175 for panel and $320-$340 for post=$495-$515</td>
<td>Educational sign</td>
</tr>
<tr>
<td>Pannier Graphics</td>
<td>24”x18”</td>
<td>$250 for panel and $395 for post=$645</td>
<td>Pavilion/educational sign</td>
</tr>
<tr>
<td>Pannier Graphics</td>
<td>36”x24”</td>
<td>$365 for panel and $515 for post=$880</td>
<td>Pavilion/educational sign</td>
</tr>
<tr>
<td>Full Bright Signs &amp; Lighting</td>
<td>2-legged (similar in size to 24”x18”)</td>
<td>$1920 for panel and posts</td>
<td>Pavilion/educational sign</td>
</tr>
<tr>
<td>Full Bright Signs &amp; Lighting</td>
<td>4-legged (similar in size to 36”x24”)</td>
<td>$2556 for panel and posts</td>
<td>Pavilion/educational sign</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Company</th>
<th>Type</th>
<th>Size</th>
<th>Amount</th>
<th>Estimated Cost Allocated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lark Label</td>
<td>Plant identification signs</td>
<td>Small</td>
<td>16</td>
<td>$350</td>
</tr>
<tr>
<td>Pannier Graphics</td>
<td>Educational signs</td>
<td>Medium/large</td>
<td>2</td>
<td>$1,800</td>
</tr>
</tbody>
</table>