# *Project Name:* The Trail Guide for a Hybrid Landscape

**Project Location:** Nebraska National Forest: Bessey Ranger District, NE

Project Purpose: The Trail Guide for a Hybrid Landscape aims to contextualize the Nebraska National Forest - Bessey Ranger District within the Nebraska Sandhills. This comprehensive trail system unravels the entangled cultural and environmental legacy of the forest — a radical experiment, dendrological anomaly, and ecological nexus at the center of the largest contiguous temperate grassland in the world — by situating a network of trail alignments, narratives, and experiences.

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# Role of the Landscape Architect

•The first objective of this project was to develop a greater understanding of the actors and networks that have impacted the forest since its conception to reveal the historiographical and contemporary narratives of the forest through designed landscape interventions. To understand the dynamic interactions that take place between various systems, the forest was analyzed guided by five goals: ecology, environment, history, management, and recreation.

1.Ecology: This project seeks to provide a range of trail experiences that engage with the three significant ecologies in the NNFG — the sandhills, mixed deciduous/coniferous forest, and riparian habitats. 2.Environment: Respect the range of environmental forces — sand, wind, water, and fire — that comprise the NNFG through an intricate network of trail alignments.

3.History: which aims to engage in the storied past of the sandhills, the emergence of one of the largest hand-planted forests in the world, and its implications for the future through contextually specific moments of interpretation, wayfinding, and signage.

4.Management: Accommodate the multi-use mandate by not only strengthening the ongoing land, recreational, and ecological management but incorporating these strategies into the overall park experience and narratives.

5.Recreation: Improve park visitorship through a variety of spatial experiences with a wide range of accessibility to appeal to all ages and capabilities.

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## Special Factors and Project Significance

•This project considers the components of each of these elements that make up the individual system, as well as how they come together to influence the even broader system of the forest as a whole. The research and mapping from this initial analysis motivated and established the basis for the narratives behind the seven trails that were developed for the Bessey Ranger District.

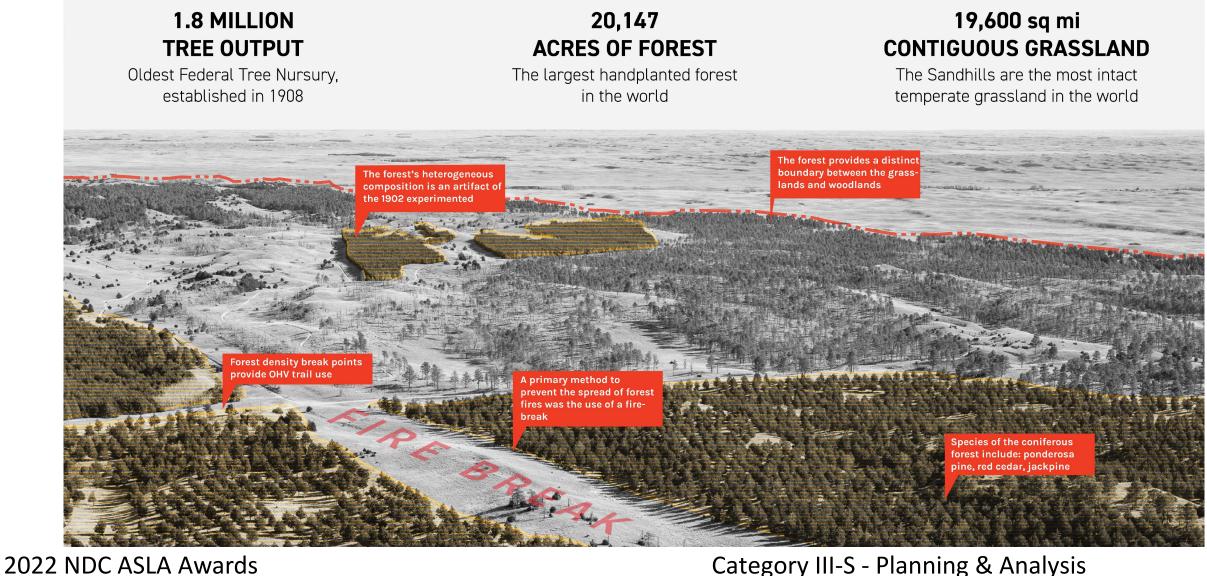
•A quote from Professor Dana Fritz in her forthcoming book, "Field Guide to a Hybrid Landscape" aids in the understanding of what the term hybrid landscape represents. "The term hybrid refers to something that is purposefully mixed and has origins in the Latin hybrida: offspring from a tame sow and a wild boar. This purposeful mixture of forest and grassland is a defining characteristic and echoes the concept of combining the tame with the wild." Trail guide to a Hybrid Landscape explores this notion of hybridity through research, analysis, and design by developing moments of interpretation.

•The elements of each trail vary from focusing on aspects such as accessibility, exercise, education, and different forms of transportation. The landscape itself presented challenges to every trail alignment, including the steep grades of the undulating hills and the loose sandy ground condition. The trail system uses the unique landscape, from its strenuous topography and dramatic juxtaposition of the forest and grasslands to its advantage, including the ability to frame certain views into the forest or expose the vastness of the sandhills from the forest edge.

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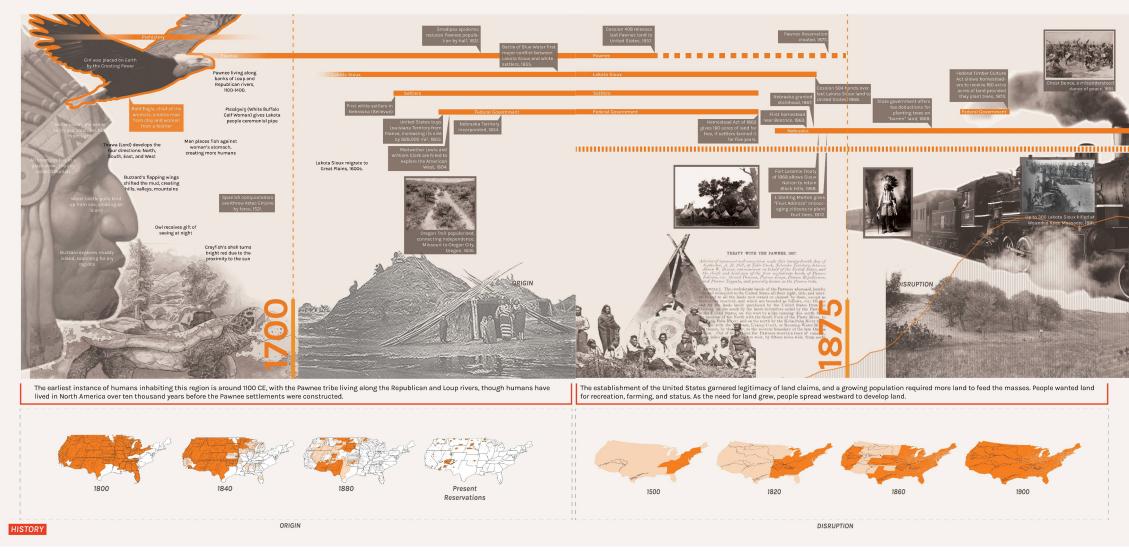
# Bessey Ranger District Photographed by Dana Fritz



Project Name: The Trail Guide for a Hybrid Landscape

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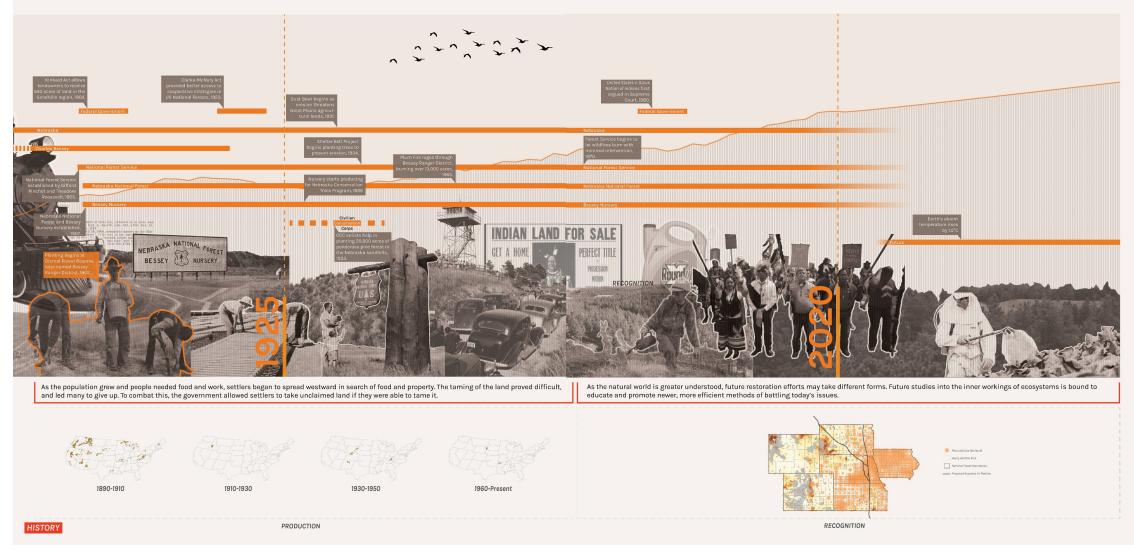
# The Historical Importance of the Nebraska National Forests and Grasslands



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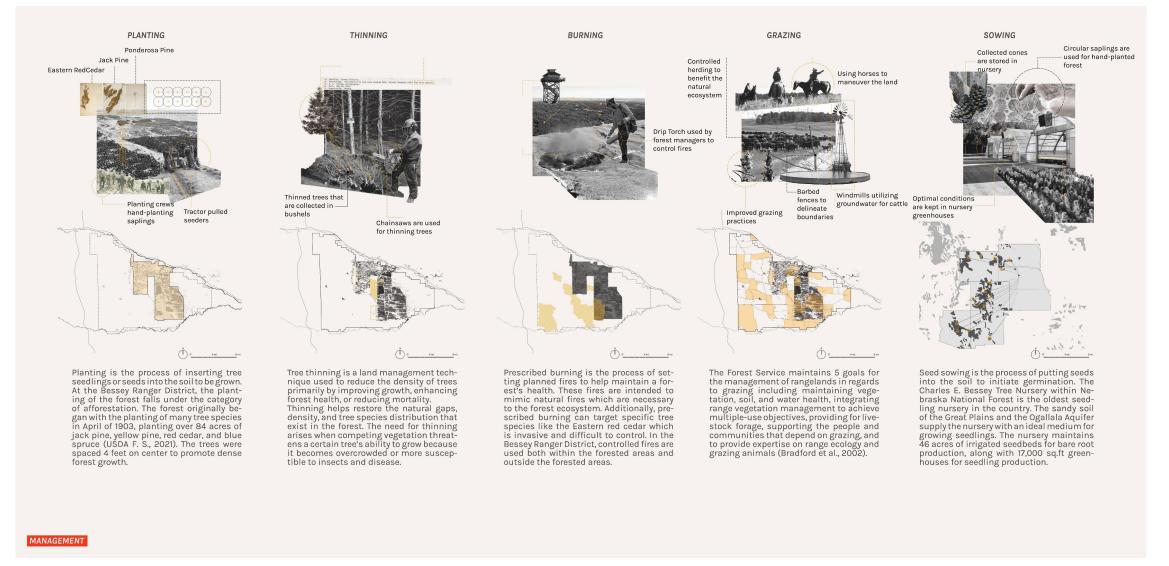


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## The Historical Importance of the Nebraska National Forests and Grasslands

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## Management Practices in National Forests and Grasslands



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# **Recreation Accessibility in National Forests and Grasslands**

Nationwide, there are a variety of recreational activities to do within national parks and forests. Although, some are more popular than others based on their geographical location.Some of the most popular recreational activities by visitor use data include biking, camping, fishing, hunting, hiking, rafting, birding, and photography. Recent data shows that less prominent activities such as cycling, paddle sports, camping, and nature watching are gaining popularity amongst teens and adults.

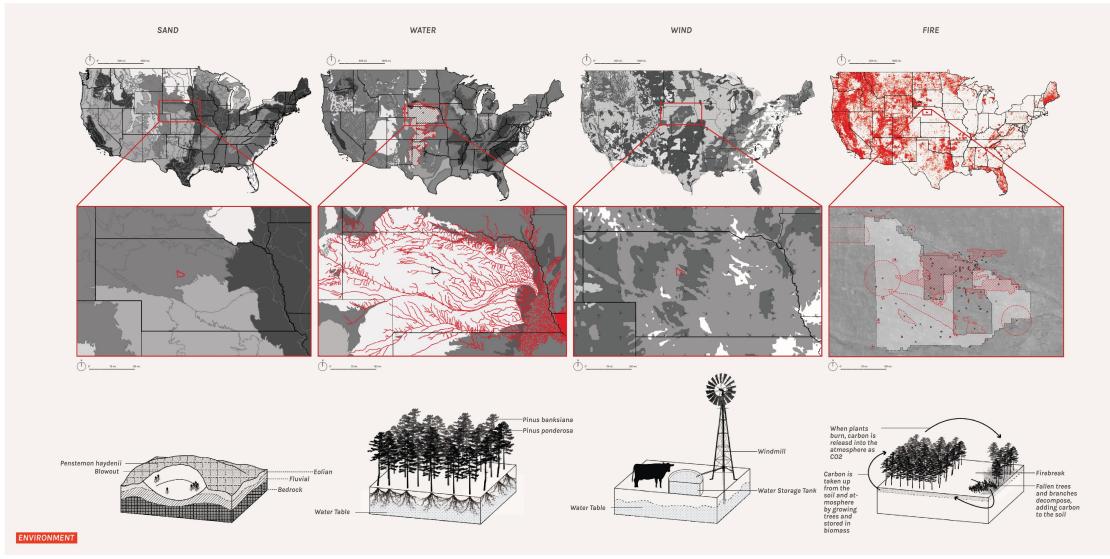


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RECREATION

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# **Environmental Impacts in Bessey National Forest and Grassland**



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# Nebraska National Forests and Grasslands Field Guide

SAMPLE OF THE BESSEY RANGER DISTRICT FIELD GUIDE NEBRASKA Some species including short Up to only 5 feet including horns; This perennial thrives during the Stands 1.7 to 3.9 feet tall, males Horns curve backwards and end NATIONAL eared owl, great horned owl, Northsummer months. Blooming with weighing heavier; 150 to 300 ern saw-whet owl, and eastern forward-pointing, some over a foot golden yellow petals attached pounds. Tan, brown, gravish brown screech owl. These vary in color long. Fur is reddish brown on back, **FORESTS AND** around a darker middle stamen. with white color on throat, eves, and can be found year-round. white on the stomach with white Flowering typically lasts 30 days. nose, and on underside. stripes along their throats. GRASSLANDS Owls 14 **Pronghorn antelope** Sunflower White Tailed deer Twenty to 30 inches long on aver-This perennial is known for its Migratory bird with yellow eyes and Classified as a perennial, this plant age and roughly 8 pounds. Yellowy ability to attract butterflies. Conthin, black legs. They are roughly flourishes in mid-summer to earwhite skin towards the underside sisting of thin green foliage and 4.5 feet tall. Primarily white body ly fall. Flowers with yellow petals and light brownish on top. Spotted **BESSEY RANGER DISTRICT** and feathers with black tipped large clusters of pink/white frathat form a disk-like appearance with red stripes on both sides. grant flowers. wings and head. centered around a dark red center. **Rainbow trout** Plains coreopsis Swamp milkweed Known as a "dancing" grouse spe-Dark, grayish, orangey tan sides of This perennial plant is known for This woody perennial plant grows cies. Central tail feather is long throat and chest. Size of a house its unique flowering. Blooming in either as a short shrub or a climb-FIELD GUIDE and pointed. Males have purple ing vine. Leaves are large, alternatcat and smaller than red foxes mid summer to fall, clumps of tucoloring on necks during mating. Nose is black and the tail is tipped bular lilac/purple flowers are comed and shiny with 3 leaflets point-Barred in brown, black, and buff mon. Fragrance is a big characterblack. ed at the tip. Flowers are small color, "v" shaped marks on belly. istic for this plant. yellow/green. Sharp tailed grouse . . Swift fox Wild bergamot Poison ivy This perennial blooms from late Bloom time is in the warmer sea-This warm season perennial grass Long lived and deep-rooted. Maspring to early summer. Producing has a columnar form that is mainson, classified as a perennial. Proture height reaches 35-45 feet. clusters of pink-white starry flowducing white clusters of drooping Consisting of long dark green neetained throughout the year. Color ers that have a great fragrance. Atbell shaped flowers. of foliage ranges from green/yeldles varying from 4-7 inches found tracts a large array of pollinators. low during summer and turning to in bundles of 2 or 3. Most active growth period is in the spring and tan/beige in the winter. Showy milkweed Ponderosa pine Switchgrass summer months . . . Yucca ... Blooming in the summer months. Some species including Prairie rat-Unlike frogs toads have dry skin tlesnake, common water snakes, classified as a biennial. This plant with warts and glands that can be produces irregular cone-shaped to green racers. They range in size poisonous behind eyes. They are flowers that are bluish-purple in and can get up to 6 feet in length. amphibians and can vary in color Color varies between species, color as well as size. some are poisonous some are not. Prairie larkspur Snakes Toads 4 4 . This low-growing perennial shrub Perennial shrub, this plant has Classified as a perennial herb this has long, feather-like seed heads compound, toothed leaves. Twigs plant blooms in late June to ear are velvety and covered with small that develop in summer months. ly September. Colors ranging from Producing petals ranging from soft hairs turning brown after first whtie to bright yellow/orange years of growth. Fruit is round light-bright pink. Circular yellow showy flowers that have fringed fuzzy droops that's a deep red and stamens are present in the center Vestern Prairie lips and clustered together. of the flower. Sumac can persist through winter. Prairie rose ringed orchid **Endangered Species** Forested Species Grassland Species

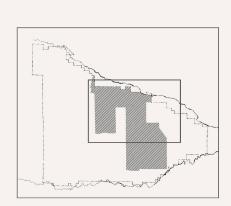
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**Riparian Species** 

## **Bessey Ranger District Trail Master Plan**



#### BESSSEY RANGER DISTRICT TRAILS MASTER PLAN

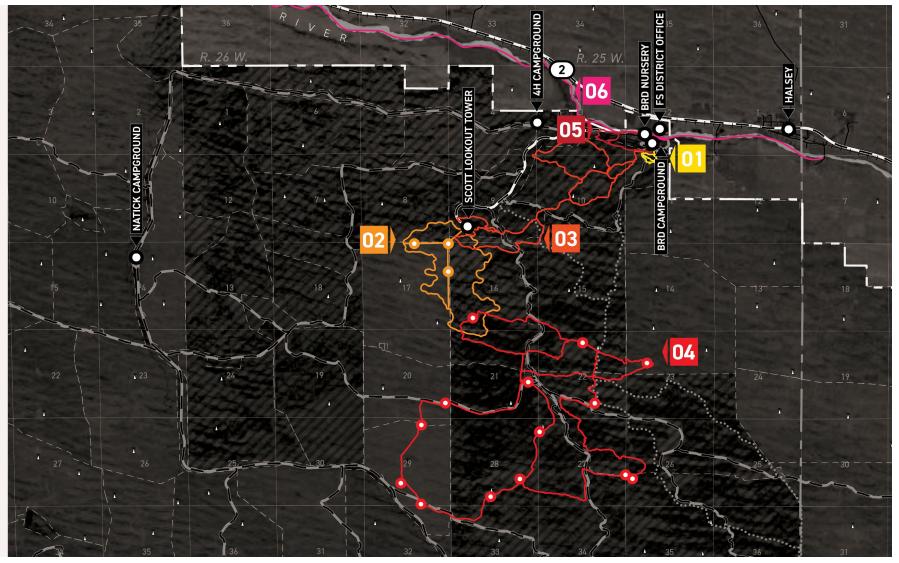
The 2022 Trail Master Plan unravels the entangled cultural and environmental legacy of the Nebraska National Forest and Grasslands – a forestry experiment, dendrological anomaly, and ecological nexus at the center of the largest contiguous temperate grassland in the worldby situating a network of trail alignments, naratives and experiences throughout this extraordinary landscape.

Ecology: This project seeks to provide a range of trail experiences that engage with the three significant ecologies in the NNFG – the sandhills, mixed deciduous/coniferous forest, and riparian habitats.

Environment: Respect the range of environmental forces sand, wind, water, and fire that comprise the NNFG through an intricate network of trail alignments.

History: Aims to engage in the storied past of the sandhills, the emergence of one of the largest hand-planted forests in the world, and its implications for the future through contextually specific moments of interpretation, wayfinding, and signage.

Management: Accommodate the multi-use mandate by not only strengthening the ongoing land, recreational, and ecological management but incorporating these strategies into the overall park experience and narratives.



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## Moments of Interpretation

#### MOMENTS OF INTERPRETATION



Bessey Arboretum, Located Along The Nursey Loop



Bessey Nursery Plots, Located Along The Nursery Loop



Bessey Riparian Grounds, Located near Between the Middle Loup and Dismal River



Tree Line Boardwalk, Located Near Node Two



Tree Line Boardwalk, Located between Forest and Grassland Boundary



Middle Loup Waterway, Located Along Node one



Horseback Trail, Located near Windmill 25



Horseback Trail, Located Near Windmill 25



Horseback Trail, Located Near Windmill 25



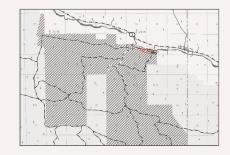
Treeline Boardwalk, Located Between Forest and Grassland Boundary

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### Project Name: The Trail Guide for a Hybrid Landscape

### Category III-S - Planning & Analysis

# **Nursery Trail**



#### NURSERY TRAIL

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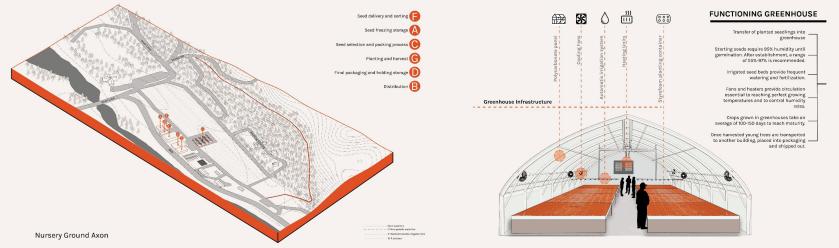
#### Goals

1. Maintain an accessible trail that conforms to Forest Service Trail Accessibility Guidelines (FSTAG) guidelines and provides a foundation for the archery range, while also providing a secondary trail route to create variability in hiking options.

 Provide a fully developed wayfinding system that organizes archery range shooting opportunities to create an easy-to-follow and interesting shooting experience.

 Integrate an education and play area that includes interpretative and informational moments on the conservation efforts, history, and management of wild game in Nebraska.

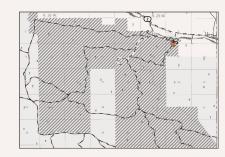




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# Archery Trail



#### ARCHERY TRAIL

The Bessey Archery Range is a short loop trail that sits adjacent to the campsites and group campground of the Bessey Ranger District. Following Forest Service Trail Accessibility Guidelines (FSTAG) guidelines, the trail provides an accessible archery shooting experience that showcases the unique characteristics of the Bessey Ranger District. It includes a shooting tower where archers can stand in an elevated position within the canopy to test their skills in a similar manner to a treestand. Through a series of 25 targets that range in difficulty based on shot distance and shot type, the archery range provides a fun yet challenging experience for archers to test and develop their skills. Hilltop trail is a shorter secondary loop option within the archery range that provides a more challenging hike experience for individuals who wish to step off of the main archery range trail. The Canopy Walk boardwalk and play area provides a

#### Goals

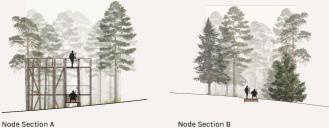
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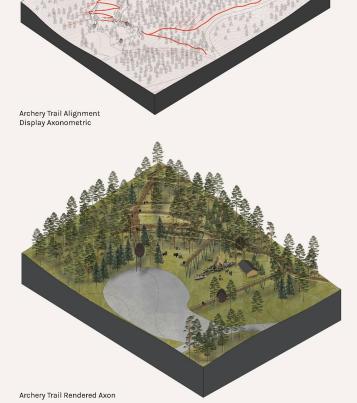
3. Integrate an education and play area that includes interpretative and informational moments on the conservation efforts, history, and management of wild game in Nebraska.

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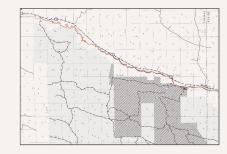






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## Middle Loup Water Trail



#### MIDDLE LOUP WATER TRAIL

The Middle Loup Water trail spans 17.5 miles starting at Thedford near Gaston Bridge and runs through Halsey up to Millers Bridge. Included between these two stops are four exit/entrances that vary in distance along the river. Recreational attractions are located at mile marker 217 (also called Oaks River), 4-H camp, and the arboretum near the main office in the forest. All recreational access locations are ABA/ ADA accessible up to the riverfront along the piers. The river experience itself is meant to be relaxing whilst also being an educational opportunity to learn about the riparian waters in the Nebraska sandhills. The inspiration for most of the designs came from the typology of the land, such as the windblown and water-swept sand of the grasslands, creating organic flowing ridges. The designs also follow ABA/ADA guidelines for all visitors to have a positive experience on the river. These guidelines in the design in-

#### Goals

1. Maintain an accessible trail that conforms to Forest Service Trail Accessibility Guidelines (FSTAG) guidelines and provides a foundation for the archery range, while also providing a secondary trail route to create variability in hiking options.

2. Provide a fully developed wayfinding system that organizes archery range shooting opportunities to create an easy-to-follow and interesting shooting experience.

3. Integrate an education and play area that includes interpretative and informational moments on the conservation efforts, history, and management of wild game in Nebraska.

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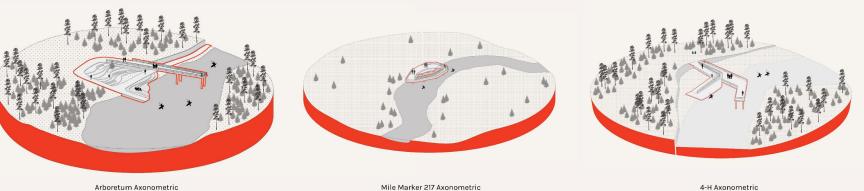
Arboretum Plan



Mile Marker 217 Plan



4-H Plan

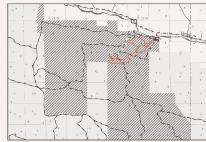


Mile Marker 217 Axonometric

4-H Axonometric

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# Scott Lookout Tower Trail



#### SCOTT LOOKOUT TOWER TRAIL

Students Josiah Nolting and Wijdan Almamari were granted the undertaking of the existing Scott Lookout trail. Design challenges consisted of providing an array of alternative trail routes to complement the preexisting trail, incorporating updated erosion strategies and developing a universal wayfinding system that would be functional, yet iconic to the Bessey Ranger District and National Forest.

Through extensive research, site visits, schematic design, and attending professional lectures related to the site the proposed expansion of the scott lookout trail poses an additional 6 miles of trail space to accommodate trail users and recreational activities during all seasons.

#### Goals

 Maintain an accessible trail that conforms to Forest Service Trail Accessibility Guidelines (FSTAG) guidelines and provides a foundation for the archery range, while also providing a secondary trail route to create variability in hiking options.

 Provide a fully developed wayfinding system that organizes archery range shooting opportunities to create an easy-to-follow and interesting shooting experience.

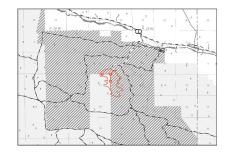
 Integrate an education and play area that includes interpretative and informational moments on the conservation efforts, history, and management of wild game in Nebraska.



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### Category III-S - Planning & Analysis

# **Tree-Line Trail**



#### TREE-LINE TRAIL

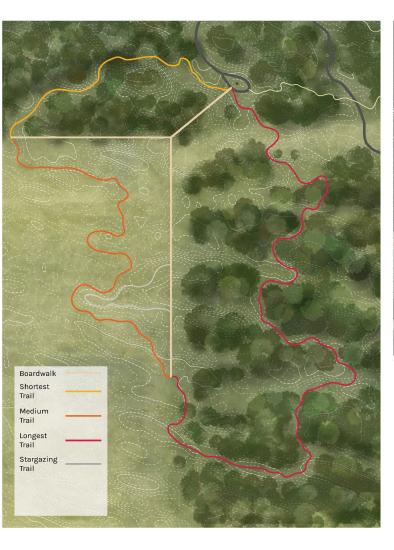
The Treeline Trail and Boardwalk provides visitors an opportunity to see the stark contrast between the Sandhills and the hand-planted forest. A series of connected boardwalks starting at the existing Scott Lookout Tower take visitors into the main firebreak and follow the North and East edges. Several interpretive nodes along the boardwalk provide educational information about the land and the forest relating to the Sandhills, fire ecology, and historical context. A hiking trail loops around the entire boardwalk with access points at its ends and provides various experiences with differing difficulty levels. The entire boardwalk meets ADA Accessibility Standards, and the northernmost trail segment maintains a 5% maximum slope and 36" minimum width to allow for some mobility devices, to create an "accessible loop." A small informal trail breaks off of the boardwalk towards the Stargazing Bowl, a natural bowl in

#### Goals

1. Maintain an accessible trail that conforms to Forest Service Trail Accessibility Guidelines (FSTAG) guidelines and provides a foundation for the archery range, while also providing a secondary trail route to create variability in hiking options.

 Provide a fully developed wayfinding system that organizes archery range shooting opportunities to create an easy-to-follow and interesting shooting experience.

3. Integrate an education and play area that includes interpretative and informational moments on the conservation efforts, history, and management of wild game in Nebraska.







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