Final Report and Feasibility Study Glidden, Iowa



Program Partners:
 lowa Department of Transportation
 Trees Forever
 lowa State University



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About Bolton & Menk

In 1949, two hard working Midwesterners – John Bolton and Martin Menk – saw people in their surrounding communities with dreams of a bright future, a desire to grow, and a common challenge of aging infrastructure. Their goal: to help communities make progress by listening to what people want, finding the best solutions for their needs, and treating them right. The legacy of John and Martin lives on. We still want to help, we work hard every day, and we always remember what got us here – we're people helping people. Today, Bolton & Menk, Inc. has more than 400 employees including a professional staff of over 150 engineers, planners, landscape architects, and surveyors.

Bolton & Menk specializes in providing public infrastructure solutions. We want to take care of our clients by providing the best services and solutions for them. From advocating for our communities, to designing their dreams, to finding funding; we take pride in our work throughout the Upper Midwest. Because we live here too. We believe in the power of face-to-face meetings, friendly conversations, and a collaborative decision making process to keep your projects on schedule, within budget, and focused on real, workable solutions.

Beyond our technical experience and skills, our service is also based on management and product delivery strategies we have developed over time:

Listen to the client's needs and wants

Learn the characteristics and personality of each client

Communicate proactively with staff, stakeholders, and the public

Develop effective solutions through consensus building

Achieve the client's vision

Foster long-term relationships

We promise every client two things: we'll work hard for you and we'll do a good job. We take a personal interest in the work being done around us. And at the end of the day, we're **Real People** offering **Real Solutions**.



Riverfront Renaissance Improvements | Hastings, MN

Program Overview

The city of Glidden is one of 10 communities selected to participate in the 2018 lowa's Living Roadways Community Visioning Program. The program, which selects communities through a competitive application process, provides professional planning and design assistance along transportation corridors to small lowa communities (populations of fewer than 10,000).

Goals for the Visioning Program include:

- · Developing a conceptual plan and implementation strategies with local communities
- · Enhancing the natural, cultural, and visual resources of communities
- Assisting local communities in using external funds as leverage for transportation corridor enhancement

Each visioning community works through a planning process consisting of four phases of concept development:

- 1. Program initiation
- 2. Needs assessment and goal setting
- 3. Development of a concept plan
- 4. Implementation and sustained action

Each visioning community is represented by a steering committee of local residents and stakeholders who take part in a series of meetings that are facilitated by field coordinators from Trees Forever. Iowa State University organizes design teams of professional landscape architects, design interns, and ISU faculty and staff. The program is sponsored by the Iowa Department of Transportation.

Community Goals

The Glidden visioning committee identified a number of goals and priority areas during the visioning process, which are included below:

- Enhance Northland Park into a recreational area supporting camping and fishing
- · Improve safety along the Highway 30 corridor
- · Improve pedestrian connections and opportunities (sidewalks & trails) throughout Glidden
- Develop a plan to pave the Aquatic Center parking lot

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Capturing the Glidden Vision

Based on the needs and desires of the local residents, as well as a detailed inventory of community resources, the design team developed concepts for community sidewalk improvements, safety enhancements along Highway 30, Northland Park, and the Aquatic Center parking lot. This plan, as well as the inventory information, is illustrated in the following set of presentation boards.

- 01. Program Overview
- 02. Bioregional Context
- 03. Transportation Assets and Barriers Assessments
- 04. Transportation Behavior and Needs Survey
- 05. Transportation Inventory
- 06. Goal Setting
- 07. Concept Overview
- 08. Sidewalk Improvement Plan
- 09. Hwy 30 Enhancements
- 10. Aquatic Center Parking
- 11. Northland Park Plan



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- Improve the funtionality, use, and aesthetics of the Aquatic Center Parking lot by paving it

08. Sidewalk Improvement Plan

07. Concept Overview

06. Goal Setting

10. Aquatic Center Parking 09. Hwy 30 Enhancements 11. Northland Park Plan

05. Transportation Inventory

02. Bioregional Context

01. Program Overview

and opportunity for shade through tree plantings, and establish better connectivity throughout park recreational opportunities, improving aesthetics Strengthen Northland Park by creating more

Impliment safety features along Highway 30





4 quatic Center Parking Lot

Design Team LA:Josh Shields, PLA/Shannon Gapp Intern: Jesse Bell

Program Overview

Glidden



Bioregional Assessment

Settlement Patterns

This board uses maps from A.T. Andreas' *Illustrated Historical Atlas of the State of Iowa*, 1875 overlaid with present-day town boundaries and water bodies. Published in 1875, Andreas' Atlas is an extraordinary resource showing the post-Civil War landscape of Iowa including settlement features (towns and villages, churches, schools, roads, railroads, etc.) and landscape features (water bodies, vegetated patches such as "timber" and "swamp," and major topographic features.) High-quality scans of the Atlas have been arranged to correspond closely with present-day maps revealing major landscape changes as well as features that have persisted, such as railroad rights-of-way and in some cases remnant vegetation patches.

Glidden in Context

Compare the 1875 boundaries of your town to the current boundaries. How much has your town grown?

Compare the course of the rivers in 1875 to their current course. Are there major changes in alignment or location? Are there vegetation patches shown in the 1875 map still in existence?





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Glidden in Context

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Settlement Patterns Glidden

Bioregional Context

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Ho, Henry Herman, Alysse Kritman, Gramis Keutsou, Emma Lorenz, Zoey Maudt, Carol Ustrine



Historical Vegetation

The vegetation information shown here is derived from township maps made by the General Land Office (GLO) surveys beginning in 1836 through 1859. The vegetation information was digitized in 1996 as a resource for natural resource management and is useful "...for the study of long term ecological processes and as baseline data for the study of present day communities."

The names of plant communities mapped by the GLO surveyors varied. The original terminology used by the surveyors who made maps has been preserved in the original data, but we have renamed these types on this map to reflect names used to describe contemporary ecological vegetation communities.

Not all communities will have all vegetation types, because various conditions that affect vegetation—such as geology, exposure to wind, seasonally high water or groundwater, and frequency of fire—differ from place to place. The following types have been mapped:

- 1. <u>Forest</u>: Tree dominated, with a mostly closed canopy. Ground vegetation shade tolerant. Developed under infrequent fire.
- 2. <u>Savanna</u>: Scattered trees, with an open canopy and prairie below. Fire dominated.
- 3. <u>Marsh</u>: Perennial non-woody plants, water and fire dominated.
- 4. <u>Prairie</u>: Perennial non-woody plants, fire dominated.
- 5. <u>Field</u>: Cultivated lands of early pioneers or Native Americans.

¹ J.E. Ebinger, "Presettlement Vegetation of Coles County, Illinois," *Transactions of the Illinois Academy of Science* (1987): 15-24, quoted in Michael Charles Miller, "Analysis of historic vegetation patterns in lowa using Government Land Office surveys and a Geographic Information System" (master's thesis, lowa State University, 1995), 8.





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- L. Forgst: Tines with monty closed conopy; ground vegetation shade tolerarant, infreq fine disturbance. the following:
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- 4. Prairie: Mainly perennial non-woody plants with 3. Mgggts Mainly perennial non-woody plants: water dominated and frequent lines.

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Historical Vegetation Glidden

Bioregional Context

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Change Over Time

In the images to the right, you can observe how land use has changed over time from the observed landscape patterns in the 1800s Andreas Atlas to the present day. By looking at landscape development patterns over time, one can begin to understand how technology, infrastructure, economic forces, and desired lifestyles have interacted with landform, climate, and processes to create present-day development patterns.

For example, consider how agricultural land use has changed land cover patterns. In general, one can see impacts of technology in larger field sizes, the reduction in wetlands and sloughs, and the elimination of fence lines as diverse farm crops and livestock production has given way to monoculture field-crop production.

New roads have been developed, usually cutting across the landscape topography on compacted roadbeds. Highways usually have low slopes and more gentle curves to facilitate high-speed movement, while roads targeted to more localized traffic can have steeper slopes and tighter curves. The result of these differences can be seen in the earthwork used to flatten the roadbeds near highways and the creation of "borrow pits" that sometimes appear as geometric ponds alongside highways.

Other observable changes are development that responds to floodplains. In many cases, development will avoid floodplains because of the risks of property damage. Between the 1940s and 1960s, development was placed in floodplains with the protection of levees. These earthworks are less effective with today's intense summer rainfall patterns, and in the most recent image, this floodplain development may have moved as a result.



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Change Over Time

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Regional Watershed

A watershed is a defined area or ridge of land with a boundary that separates waters flowing to different rivers, creeks, or basins. Watershed boundaries show the extent of a drainage area flowing to a single outlet point, and determine whether precipitation is directed into one watershed or an adjacent watershed.

It is important to note that there are multiple levels of watersheds; for instance the lowa River watershed is composed of a dozen smaller watersheds, and the lowa River watershed is a sub-basin of the Mississippi River watershed.

Where a community is located in relation to its surrounding watershed(s) determines its capacity to manage regional watershed issues such as flooding. For example, a community located near the end of a watershed (close to the outlet point) will have little capacity to reduce the amount of water draining toward it from upland areas.

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Glidden

Regional Watershed

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Ha, Herry Herman, Alysse Kirkman, Glarnis Koutsou, Ermma Lorenz, Zoey Mouck, Corol Utitine





Depth to Water Table

The water table is defined as the level below which the ground is saturated with water. Depth to water table is represented as a range because it varies due to seasonal changes and precipitation volumes. For example, following a spring snowmelt, an area with a depth to water table ranging from one foot to three feet is likely to be at or near one-foot depth.

The map shows how close to the surface groundwater can be. Pavement and foundations are affected by groundwater near the surface. Freezing and thawing and upward pressure of rising groundwater can cause cracks or "frost boils" in pavement. Foundations can be wet and require "dewatering," which can be expensive.

Where the value is less than 0 feet, water can well up out of the ground. This causes localized flooding, even if there is no surface water draining to the area.





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Elevation and Flow

The map to the right displays topographic differences in elevation using a combination of contour lines and the color gradient depicted in the legend. The high points and low points have also been located.

Note the relationship of your community to the surrounding elevation; is it located in a valley or on high ground, or is it split between the two?

If your community lies within or near a floodplain or floodway, the map will reflect these features. Not all communities will have these elements; their absence on this map indicates that none are present.

Flood risk is correlated to low-lying land. This map also shows your community's flood risk as defined by the Federal Emergency Management Agency (FEMA) Flood Map Service Center. If your community has these features, this map will show the two most important flood zones, the Base Flood and the Regulatory Floodway (consult legend). Base Flood is the zone having a one percent chance of being equaled or exceeded in any given year, also referred to as the "100-year floodplain." The Regulatory Floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of objects so that the floodwater can move freely, keeping the base flood elevation from rising.



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Bioregional Context

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Present Day Land Cover

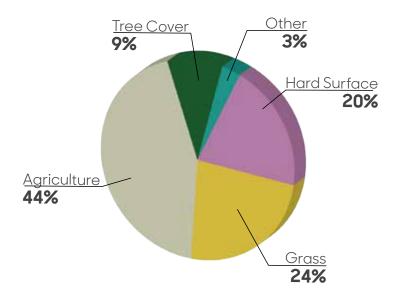
The land cover map depicts both natural and man-made land cover types with aerial imagery. The lowa DNR created 15 unique classes for this dataset to differentiate land covers. Refer to the legend for a breakdown of land cover types within your community boundaries.

What do you observe about the dominant land cover types in your community? Where is the tree canopy most concentrated?

Compare the amount of impervious surfaces (e.g., parking lots, roads, buildings) to the other surfaces (e.g, water, grass, and agriculture.) What does this mean for surface water movement?

Tree cover affects microclimate. Are places surrounded by canopy more pleasant in the summer? How do these places feel in the winter?

Percent Land Cover Type





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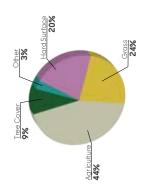
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Percent Land Cover Type

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Present Day Land Cover

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Julia Badenhope, Casey Cox, Riley Dunn, Dominick Florer, Hatvany Gomez-Concepcion, Ngoc
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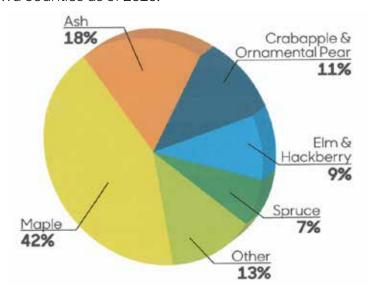


The Urban Forest

The map on the right depicts public right-of-way trees that have been surveyed by the lowa Department of Natural Resources (lowa DNR).¹ The trees are divided into three categories: healthy trees, hazard trees, and ash trees.

Hazard trees are distinguished with a yellow triangle symbol. The hazard designation reflects tree condition using the lowa DNR's priority rating. Trees highlighted on this map are "dangerous, dead, or dying, and no amount of maintenance will increase longevity or safety," or are infected by "insects, pathogens, or parasites."

Ash trees are distinguished with a purple cross. They are under imminent threat from the Emerald Ash Borer (EAB),* an invasive highly destructive beetle that has already killed tens of millions of ash trees in North America.² EAB was first discovered in Iowa in 2010 and was confirmed in 30 lowg counties as of 2016.³



The graphic above shows how many of the city's trees are of the same species. There is a strong possibility that 18% (Ash trees) of Glidden's city owned trees will die once EAB is carried to the area. With proper planning and management, the city's canopy can be improved by planting suitable trees that can gradually replace hazard trees and Ash trees. Improving species diversity will create a more resilient urban forest.

¹ lowa Department of Natural Resources Community Tree Inventories, http://www.iowadnr.gov/Conservation/Forestry/Urban-Forestry/Community-Tree-Inventories

² EAB is a significant threat to our urban, suburban, and rural forests because it kills stressed and healthy ash trees. EAB is so aggressive that ash trees may die within two or three years after they become infested. Ash trees are as important ecologically as they are economically in the forests of the eastern United States. Emerald Ash Borer the Green Menace, USDA Program Aid No. 1769, 2008, https://www.aphis.usda.gov publications/plant_health/content/printable_version/EAB-GreenMenace-reprint June09.pdf.

^{3 &}quot;lowa Tree Pests website," Entomology and Plant Science Bureau of the Iowa Department of Agriculture and Land Stewardship (IDALS), last updated February 9, 2016, http://www.iowatreepests.com/eab_home.html.





The Urban Forest

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Urban Forest

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Ho, Henry Hierman, Alysse Kirlman, Giannis Kautsou, Ernna Lorenz, Zoey Mauck, Carol Ustine



Transportation Assets and Barriers

Overview

Transportation is integral to small-town life and a vibrant economy. In the context of the Community Visioning Program, we recognize walking, biking, and driving as quintessential modes of travel to various destinations important to residents and visitors. Access to these destinations is crucial for many everyday activities—getting to work and school, participating in community events, and providing for basic needs such as food, health care, and healthy activity.

In this participatory assessment, we want to find out which factors and conditions affect transportation use in Glidden, where these factors and conditions are most prevalent, and how they influence route and transportation choices locally. Because residents have the best knowledge of how Glidden's transportation system works, we use focused, small-group conversations, mapping, and photos of the best and worst places taken by residents to understand local transportation.

Different Users = Different Needs

To capture insights about transportation from a variety of perspectives, we invited Glidden residents with different transportation needs to participate in focus groups. A total of 44 residents attended Glidden's workshop. Participants were separated into five user groups and the Glidden steering committee.



This user group represents those in the community who engage in outdoor recreation, including cycling, walking, running, swimming, skiing, etc. The availability of multiple venues for outdoor recreation matters to this group.



This user group is directly affected by accessibility barriers such as high curbing and uneven sidewalks that make it difficult to operate mobility-aiding equipment effectively. Handicapped parking, curb ramps, and smooth surfaces are critical transportation features.



Accessibility—both in terms of physical access and proximity—is a major concern for this user group. Because some people in this user group do not or are unable to drive, having goods and services within walking distance is important.



This group uses primarily non-motorized modes of transportation, so pedestrian- and bike-friendly streets and sidewalks are important. These users value the ability to get to destinations on foot or via bicycle and having goods and services within walking distance.



Safety of their children is a primary concern of this user group. Access to safe and easy routes to school activities is another significant factor to this group. Parents of young children desire smooth, wide surfaces for strollers.



The common denominator for this user group is that their observations are influenced by special knowledge of the transportation system acquired during the Community Visioning assessment process. As a result, this group is more representative of decision makers.

Steering Committee







sset: Main Street buildings are well maintained. The handrails are very helpful.



Barrier: Busy traffic at Highway 30 and Idaho Stree



Barier: The corner of Arizona Street is on the floodplain. The corner is very sharp and parked trucks can block the view. Also, the sidewalk is not continuous.



Barrier: The "Brush Bump" is popular destination with kids and teenagers of Glidden. The rough gravel path is abarrier.

What Factors Affect Transportation in Glidden?

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(8 participants): This user group represents those in the community who engage in outdoor recreation, including cycling, walking, running, swimming, skiing, etc. The availability of multiple venues for outdoor recreation matters to this group.



(5 participants): This user group is directly affected by accessibility barriers such as high curbing and uneven sidewalks that make it difficult to operate mobility-aiding equipment effectively. Handicapped parking, curb ramps, and smooth surfaces are critical transportation features.



major concern for this user group. Because some people in this user group do not or are unable to drive, having goods and services within walking distance is important. (13 participants): Accessibility—both in terms of physical access and proximity—is a pedestrian- and bike-friendly streets and sidewalks are important. These users value the (6 participants): This group uses primarily non-motorized modes of transportation, so ability to get to destinations on foot or viabicycle and having goods and services within



Access to safe and easy routes to school activities is another significant factor to this (9 participants): Safety of their children is a primary concern of this user group. group. Parents of young children desire smooth, wide surfaces for strollers.



are influenced by special knowledge of the transportation system acquired during the Community Visioning assessment process. As a result, this group is more representative of (3 participants): The common denominator for this user group is that their observations

Steering



Julia Badenhope, Sandra Oberbroeckling, Hatvany Gomez-Concepcion, Saina Shayanjoo, Emma Georgeff, Mengtian Huang lowa State University | Trees Forever | Iowa Department of Transp



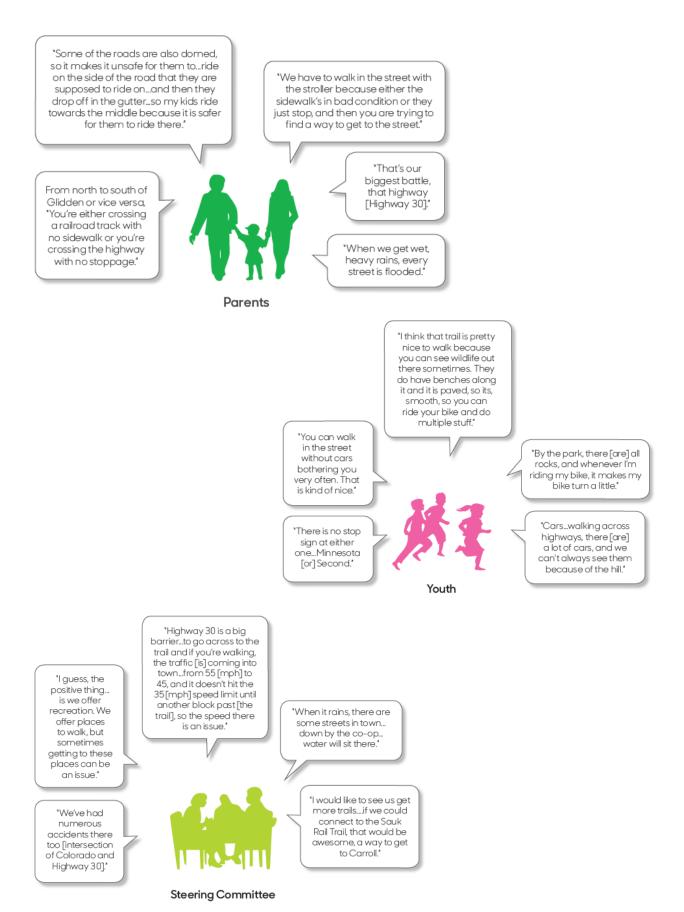


What People Said

"My issues would be the busy "The kids on bikes do not streets going to Highway 30 use the stop signs." with no stop sign." "I love that we We like the trail. have wonderful It would be used city parks." much more if there would be a proper way to cross there." *When we get a big rain, we do get flooding right down Idaho Street." **Actives**

"I walk in the middle of the street and listen for cars. That's the only waybecause my chiropractor told me, 'Don't go the "[I'd like a] trail system for same direction all the biking and walking for time because it affects all ages...I think even kids your hip." would use it if there was "I run on Main Street. a bigger spot that they There's a block that the could just take off and sidewalk is lower than go a longer distance. We the ground around want to extend the trail it, and water and system." everything sits on it." 'They've done better *There's no access to with some stop sign biking because it's not placement, but I think safe to bike on 30. It's that probably could be not safe to bike on N44, improved." so we're isolated from biking trails." Older Adults

> "City Park has pretty good sidewalks in the park because you can get a wheelchair around when they have 'It is walkable events and stuff." and everything is close, so we can go... to the "We usually walk on the city park and the streets. There's not a lot school park a lot." of sidewalks in that part of town, so we're usually in the street." "We bike. I bike with the kids on *Small school, small town. the back and, [You] always know what's otherwise we'll do going on with your kids." stroller wagon." Mobility Impaired





Emerging Themes

Discovering themes and consistencies among user groups helps the steering committee to identify solutions to address the needs of all. The chart on the opposite page displays each user group's collective thoughts on particular issues in comparison with the other user groups in the community.

Actives: Actives walk, drive, and bike regularly, either as part of a daily commute or as recreational/sports training. Their major concerns are lack of traffic signage, lighting, and bad sidewalk condition.

Mobility-impaired individuals: Mobility-impaired individuals often rely on motorized scooters and wheelchairs to get around. Therefore, smooth, wide surfaces are important. The lack of lighting and bad sidewalks in many places makes it challenging to get around town. They desire to see better access to butterfly garden.

Older adults: Older adults like biking and walking around the town, but they are concerned about poor and disconnected sidewalks. They noted that large trees and bushes block the traffic views in some areas.

Youth: Youth mainly walk, bike, and drive golf carts and ATVs to get around the community. Some ride with their parents, and older youth drive. Sidewalk conditions affect their ability to walk, bike, and ride scooters. Crossings are the major safety issue for them.

Parents: Parents drive, walk, and run. They are concerned about their children's safety as they travel throughout town. Of particular concern is lack of consistent sidewalks and safe crossings. Although they are glad Highway 30 brings people to town, it is a major safety concern.

Steering committee: Steering committee members walk, drive, bike, and drive golf carts or UTVs. Their main concern is the lack of sidewalks and connectivity in town. Traffic on Colorado and Idaho Streets is another concern for this group.

		Actives walk, drive, and blee regularly, their espart of a dolly controlled or as recreational sports training. Their recreational sports training. Their signings, lighting, and bad sidewalk condition.	Whotelly-reproduced in selection claims rely on measuring a count of hereign and all agents and a selection as to get anount. Therefore, armostly wide such section armostly will be added to such count or my mortant. The back of lighting and bed sideweds in many glabores makes at challenging to get armostly at town. They desire to see better account forw. They desire to see better account forw. They desire to see better account town. They desire to see better account town. They desire to see better account town.	Otion odulis Berbing and walking council the bown, but they are concerned about poor and disconnected adderwals. They noted that they trees and bush they book the traffic views in some areas.	(in the marky take below out through the goal cours and All's tages our out the course and All's tages our out the course and the second through the and date your aire. Scherook and date your aire adding to wait, below, and they cooler. Constray are the below, and they pourse for them.	Prevent that work card can help each of prevent that work card can help each or they time it land any plant into a Charles Late concern in lock of conclients downships and safe crisicing. Although they are glod they work of being people to bown it is a might railery concern.	Seering committee members wolk, of which lake, on and offine got ours of UNs. Their moin concern is the back of inference or convention in how. Take on Colorado and Idaho Streets is another concern for this group.	
Most Desired Improvements and Activities	Trail Systam Improvements		X 58 3 2 4 5 8	0 8 8 8 8 8	98888 2 E	28583£E		September 1990 Comments of the
	Traffic T Control Im	•	•			•		
	Safe Crossing on Highway 30		•	•	•	•	•	Silver of the State of the Stat
	Sidewalks So improvements on		•					The word of the work of the wo
Undesirable Qualities and Features	Poor Lighting In		•			•		
	Flooding	•		•	•		•	
	Heavy Traffic	•	•	•	•	•	•	
	Highway 30 Crossing	•	•	•		•	•	
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Destinations and Activities	The Welness Center	•	•	•	•	•	•	10 46 O 20 100 MO
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	User Types	**	Publish impaired	***	186	7	TTD-4(III)	THE RESIDENCE OF THE PARTY OF T



Transportation Behaviors and Needs

Overview

The survey gives the visioning steering committee objective, representative information for the goal-setting phase of community visioning. The quantitative data collected from survey responses complements the qualitative information gathered from the focus groups at the transportation assets and barriers workshop.

The modes of transportation that residents use and the routes they take suggest suitable types of transportation enhancements in these areas. Having a sense for people's willingness to help either financially or with their time is important because many transportation enhancements are funded from multiple sources, including grants, private donations, in-kind contributions, and volunteers. Understanding what types of improvements are important to residents gives the committee insight into how to prioritize projects.

With assistance from Iowa State University's Survey Research Services staff in the Center for Survey Statistics and Methodology (CSSM-SRS), ISU visioning program staff conducted a survey to better understand the transportation patterns and behaviors, needs and desires of Glidden residents. Surveys were mailed to 400 randomly selected residents living in Glidden and the surrounding area. To increase the response rate, the study was publicized through the local media and follow-up packets were mailed to nonrespondents. With adjustments for ineligible respondents (e.g., incorrect addresses, no longer living in the community), the final sample size was 249. A total of 134 people returned surveys, for a response rate of 53.8%. (A response rate of 20% is considered valid.)

We asked survey recipients what routes they used most often for going to work, walking, and biking. We also asked whether or not residents would like a recreation trail and where they think it should be. We also discovered what residents think is most important in terms of transportation enhancements that address issues such as accessibility, mobility, and safety. Finally, we learned whether or not residents are willing to contribute their time or their financial resources to making enhancements to Glidden. This series of boards summarizes the results of the survey as follows:

Willingness to Help
Enhancement Priorities
Commuting Routes
Walking Routes
Biking Routes
Desired Trail Routes

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How Is It Done?

With assistance from lowa State University's Survey Research Services staff in the Center for Survey Statistics and Methodology (CSSM-SRS), ISU visioning program staff conducted a survey to better understand the transportation patients and abhaviors, needs and desires of Gidden residents. Surveys were mailed to 300 randomly selected residents living in Gilden and the surrounding area. To increase the response rate, the study was publicized through the local media and follow-up packets were mailed to nornespondents. With adjustments for inaligible responsed tist, got, incorrect addresses, no longer living in the community), the find sample size was 249, A total of 1.14 people returned surveys, for a response rate of 53.8%. (A response rate of 20% is considered valid)

What Did We Find Out?

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- Willingness to Help
- Enhancement Priorities
- ties B
- Commuting Routes
- BikingRoutes - Desired Trail Routes

Walking Routes

GliddenOverview

How Did We Do?

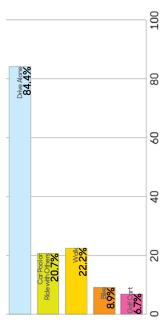
SPRING 2018 4a

The demographics of the respondents are somewhat different from those obtained from the 2016 American Community Survey Five-Yee for estimated the survey respondents median age of 59 is significantly older than the 2016 estimated average age for Gildden residents of 34.1 herms of gender, average household size, and number of children in the household, survey respondents' demographics differ from the 2016 estimates.



How Do Glidden Residents Travel?

Most survey respondents drive to important destinations such as the convenience store, the post office, school, and church (84.4%). More than 20% car pool or ride with someone else and 22% walk. More than &get around on golf carts.



respondents indicated that they

*Please note that some

therefore, percentages add up

to more than 100%.

transportation to get to work;

Transportation Behavior and Needs Survey

Julia Badenhope, Sandra Oberbroeckling, Emma Lorenz, Dominick Florer

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Willingness to Help

Willingness to implement change

Most survey participants who answered this question are willing to contribute their time and talent to community improvements (70.4%), while just over 24% would contribute both time and talent and financial help. Nearly 6% of respondents indicated that they would be willing to contribute financially.

Compared to other small towns in lowa, Glidden residents are more willing to become involved in improving their community. In 2014, on average, 43% of residents in small, rural towns volunteered to help with a community project.1 Glidden exceeds this average by 3%

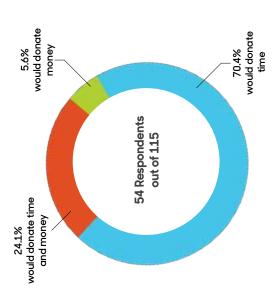
In 2014, on average, 43% of residents in small, rural towns volunteered to help with a community project.¹

In 2014, the most common reason residents in small-town lowa said they didn't become involved in community projects is that no one asked them (34%). Twenty-eight percent on average said that they don't have time, which is significantly lower than the 2004 average of 59%. Sixteen percent indicated that they didn't know how to become involved, and 7% said that no community project needed volunteers. These results indicate that the best ways to get people involved in community projects is to simply ask, along with advertising opportunities through traditional and social media outlets.

¹ Sigma: A Profile of Iowa Small Towns 1994 to 2014 (Ames, IA: Iowa State University College of Agriculture and Life Sciences, 2015).

ARE PEOPLE WILLING TO HELP?

More than 46% said YES!



Willingness to implement change

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Glidden Willingness to Help

WHAT DID PEOPLE SAY?

SPRING 2018

Survey Participants Said...



"Getting to the trail, [you] must cross Highway 30. It needs a flashing light or pedestrian crossing signage. The trail needs lighting around it."

Many elderly don't drive and have to wait for family to have the time to take them places for groceries and perhaps meds."



"Access across Highway 30 from the north is needed for children/walkers."

HOW DO YOU GET PEOPLE TO HELP?

Ask, Show, and Advertise Opportunities

In 2014, the most common reason residents in small-town lowa said they didn't become involved in community projects is that no one asked them (34%), Iwenty-eight percent on average said that they don't have time, which is significantly lower than the 2004 average of \$2%. Sixteen percent indicated that they didn't know how to become involved, and 7% said that no community project needed volunteers. These results indicate that the best ways to get people involved in community projects is to simply ask, along with advertising opportunities through traditional and social media outlets.

Transportation Behavior and Needs Survey

Julia Badenhope, Sandra Oberbroeckling, Emma Lorenz, Dominick Florer



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Sigma A Profile of Youra Smal Tourns 1994 to 2014 (Ames, IA: Iowa State University College of Agriculture and Life Sciences, 2015



Priorities

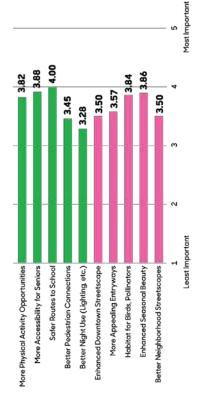
Importance of transportation enhancement by type (108 responses)

On a scale of 1 to 5, with 5 being the most important, participants in Glidden rankedcreating safer routes to school as most important, with a mean value of 4.00. Other transportation enhancements that address pedestrian mobility, health, and safety are also considered important. Environmental and aesthetic issues are also important among respondents, with mean values ranging from 3.50 to 3.86. These findings are consistent with the views expressed by focus group participants during the Transportation Assets and Barriers workshop held in March 2018.

WHAT TYPES OF ENHANCEMENTS ARE IMPORTANT?

Mobility, Safety, and Health!

sportistion Enhancement Issues
Perfection Michilly Sofety, oral Health



Importance of transportation enhancement by type (108 responses)

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WHAT DID THEY SAY?

SPRING 2018 4c

Survey Participants Said...



"I would love, love, love, a trail from Glidden to Swan Lake for bicycles. At this time, I have to load my bicycle in my vehicle to ride or store it in town somewhere."





"Safety around the school should be upgraded. Many young children walk to and from school."





everyone!"



Transportation Behavior and Needs Survey Julia Badenhope, Sandra Oberbroeckling, Emma Lorenz, Dominick Florer

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Commuting Routes

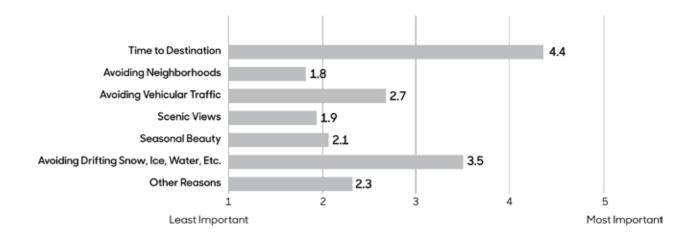
How They Get There

This map shows the commuting routes identified by 82 survey respondents. The frequency that the routes are used is depicted by their thickness, with most frequently used routes being the thickest. The primary commuting corridor in Glidden is Highway 30 to the west. Some people also go east on Highway 30 and travel on County Road N41. In town, Colorado and Arizona Streets are the most heavily traveled.

The circulation patterns that emerge when routes for biking, walking, and commuting are overlaid suggest suitable types of transportation enhancements. For example, where pedestrian and vehicular traffic intersect, such improvements could include creating better visibility, defining crossing points, or improving signage.

Why They Go That Way

On a scale of 1 to 5, with 5 being the most important, survey participants ranked the characteristics and features that factored into their choice of commuting route. Among Glidden participants, time to destination is clearly the most important factor, with a mean value of 4.4. Avoiding weather-related issues such as snow and ice is also considered important, with a mean value of 3.5. Avoiding neighborhoods, scenic views, and seasonal beauty are not critical factors in determining commuting routes. Some of the other reasons, which have a mean value of 2.3, include location of work site and the ability to walk the dog on the way to work.



SPRING **2018** 4d

How They Get There

This map shows the commuting routes identified by 82 survey respondents. The frequency that thickest. The primary commuting corridor in Glidden is Highway 30 to the west. Some people the routes are used is depicted by their thickness, with most frequently used routes being the also go east on Highway 30 and travel on County Road N41. In town, Colorado and Arizona Streets are the most heavily traveled.

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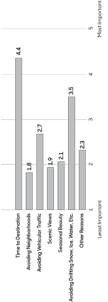
Why They Go That Way

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Commuting Routes (82 responses)

11-20 people 21-30 people

-- 1-10 people



Commuting Routes Glidden

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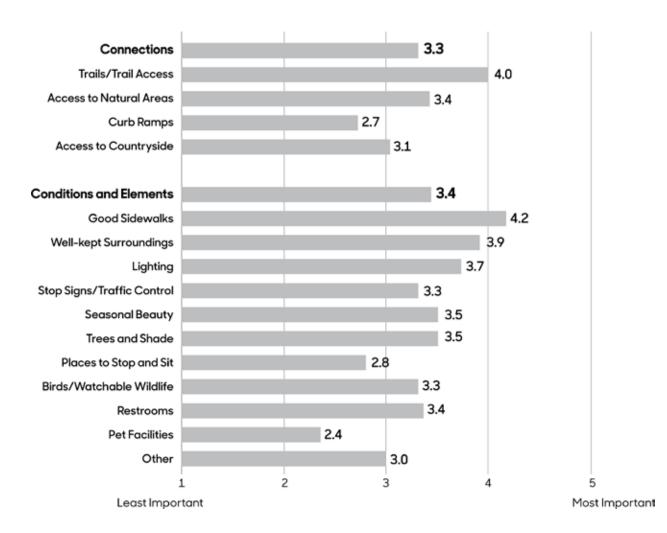
Walking Routes

How They Get There

This map shows the walking routes identified by 74 survey respondents. The frequency that the routes are used is depicted by their thickness, with most frequently used routes being the thickest. The trail in Northland Park is the most popular place for walking. People also walk the streets in town, most frequently Utah, 1st, and Arizona Streets. A few people walk along Highway 30, and some walk a loop consisting of South Idaho Street, 210th Street, Sycamore Avenue, and 205th Street.

Why They Go That Way

On a scale of 1 to 5, with 5 being the most important, survey participants ranked the characteristics and features that made their walking experience better. These features are categorized as either "connections" or "conditions and elements." Among Glidden participants, connections and conditions/elements are of similar importance, with mean values of 3.3 and 3.4, respectively. In terms of connections, access to trails is most important with a mean value of 4.0. Good sidewalks (4.2) and well-kept surroundings (3.9) are the most important elements to walkers, followed by lighting (3.7). Other factors include hills, good road surfaces, and low traffic.



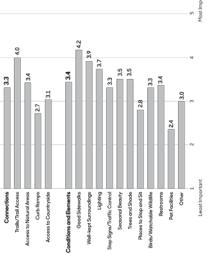


How They Get There

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Walking Routes (74 responses)

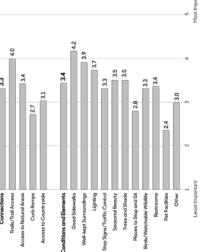
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11-20 people 21-30 people

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--- 1-10 people



Walking Routes Glidden

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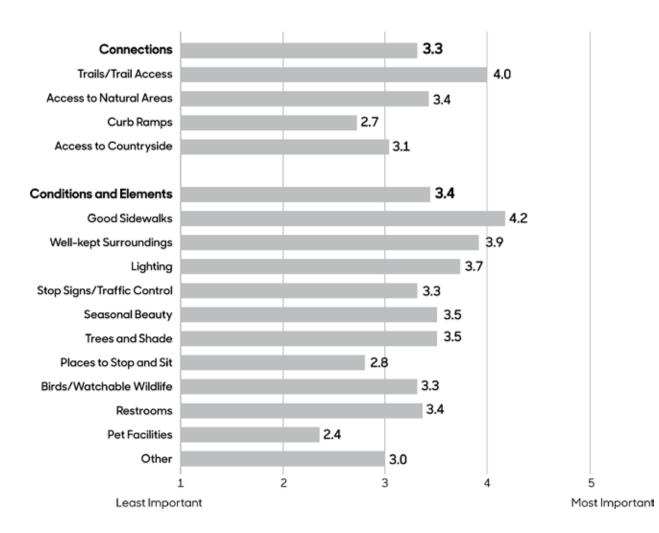
Biking Routes

How They Get There

This map shows the biking routes identified by 41 survey respondents. The frequency that the routes are used is depicted by their thickness, with most frequently used routes being the thickest. Like the walkers, bikers most frequently use the trail in Northland Park. Cyclists also ride the streets in town, most frequently 1st, and Arizona Streets. A few people bike along Highway 30, and some ride on County Road N4 and 210th Street.

Why They Go That Way

On a scale of 1 to 5, with 5 being the most important, survey participants ranked the characteristics and features that made their biking experience better. These features are categorized as either "connections" or "conditions and elements." Among Glidden participants, connections are more important than conditions/elements, with mean values of 3.4 and 3.1, respectively. In terms of connections, access to trails is most important with a mean value of 4.4. Well-kept surroundings (3.7) are the most important element to bikers, followed by stop signs and traffic control (3.6). Other factors include season, smooth surfaces, and low traffic.



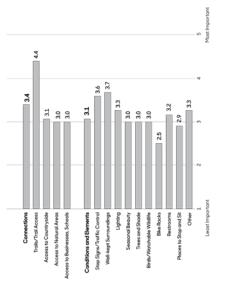


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Biking Routes (41 responses)

5-8 people 9-12 people

--- 1-4 people

Glidden Biking Routes

Transportation Behavior and Needs Survey Julia Badenbore Sandra Oberbroeckling Finnal prenz Dominical

Julia Badenhope, Sandra Oberbroeckling, Emma Lorenz, Dominick Florer







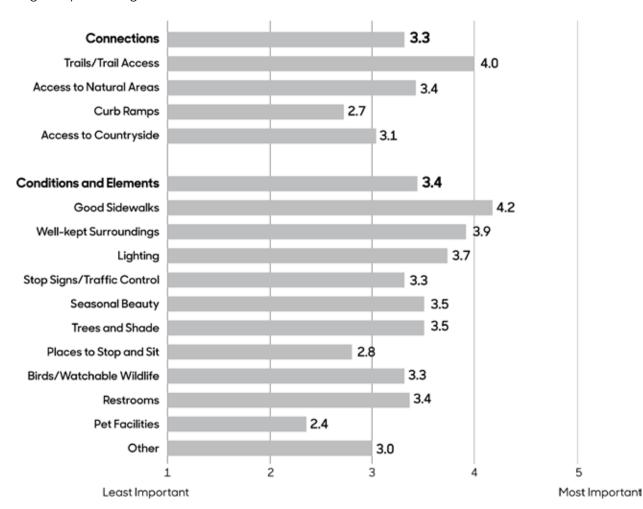
Desired Trail Routes

Where People Want Trails

This map shows the desired trail routes identified by 33 survey respondents. The frequency that the routes are used is depicted by their thickness, with most frequently used routes being the thickest. Most respondents would like a trail along the western city limits, as well as along East 4th Street by City Park. A trail connection between the Aquatic Center and the Northland Park trail is also desired, along with a trail loop around town. A few people want to a trail connection between Northland Park and the cemetery, and some want a trail along the rail line.

What Trail Features Are Important

On a scale of 1 to 5, with 5 being the most important, survey participants ranked the characteristics and features that made their trail experience better. These features are categorized as either "connections" or "conditions and elements." Among Glidden participants, conditions/elements are more important than connections, with mean values of 3.8 and 3.2, respectively. In terms of connections, access to natural areas is most important with a mean value of 3.7. Well-kept surroundings (4.1) are the most important element, followed byrestrooms (4.0). Other factors include snow removal and safe highway crossing.



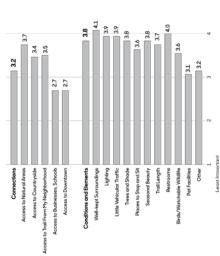


Where People Want Trails SPRING 2018 49

This map shows the desired trail routes identified by 33 survey respondents. The frequency that 4th Street by City Park. A trail connection between the Aquatic Center and the Northland Park trail is also desired, along with a trail loop around town. A few people want to a trail connection thickest. Most respondents would like a trail along the western city limits, as well as along East the routes are used is depicted by their thickness, with most frequently used routes being the between Northland Park and the cemetery, and some want atrail along the rail line.

Important Trail Features

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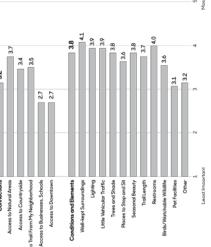
Desired Trail Routes (33 responses)

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Desired Trail Routes Glidden

Transportation Behavior and Needs Survey

Julia Badenhope, Sandra Oberbroeckling, Emma Lorenz, Dominick Florer





Transportation Inventory and Analysis

Transportation is an essential component in the overall safety and economic well-being of a community. Providing safe, accessible routes to walk, bike or drive to various destinations is an important indicator for quality of life. Residents of Glidden expressed a desire to improve sidewalk and trail connections to community amenities; including the Glidden-Ralston Jr-Sr School Facility, Northland Park, City Park, the Aquatic Center, the Fitness Center and area stores and restaurants. The community also highlighted Highway 30 as a barrier inhibiting pedestrian access. The design team used this information to explore opportunities for improving connectivity, safety and cohesiveness through the community.

Transportation Mapping

Transportation is an essential component in the overall ballety and economic well-being of a community. Providing safe, nocessible requires to well, being, or divin to various delaterations is on important indicator or quality of life. Globbe nesidents expressed a delate to improve well-ballety among accriminatity destinations through participations in surveys and assessment workshops (see boards, 30 is 3b). They also indentified (Highway 30 as a barrier inhibiting pedestrian access). The design intern used this information to explore appointuities for improving connectivity, safety and connectivity, safety and



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Transportation Inventory Glidden

Design Team
Lik, Josh Shelds, PLAC Shannon Gapp
Intern, Jesse Bell





Goal Setting

Economic Development

- · Homes for assisted living
- New business attraction
- · Improve main street aesthetics
- · Improve church signage
- Welcome signage on Highway 30

Art & Cultural/Community Pride

- New landscape in Downtown area
- · Warm welcome signs
- · Improve street corner appeal
- Day care center

Safety

- · Sidewalks along Highway 30
- · Improve lighting throughout town
- · Sidewalks around the high school
- · Repair damaged sidewalks
- Crossing areas for Highway 30
- Turning lanes on Highway 30
- · Improve Casey's semi parking

Connectivity

- · Connect trails, ball park, and West Side Cemetery
- · Connect Highway 30 and Northland Park
- Connect soccer fields to Northland Park
- · Connect Northland Park to West Side Cemetery

Recreational Opportunities

- · Northland Park fishing & camping
- · Include trees and perennials along current trails and new trails

Natural Resources

- · Fix flow of water on streets
- · Remove dead trees
- · Plant more trees
- · Implement solar energy to power lights for Northland Park and trails
- · Have a pond to fish in, area to camp, and a dog park

GOAL SETTING: ASSESSING AND PROGRAMMING COMMUNITY NEEDS SUPPERED OF

Community Values/Themes	se/Themes	Broad-Based Outcomes/Goals	Why Change Anything?	What Exactly and Where?
Econ	Economic Development	Homes for assisted living New batters attraction Improve mainst action as aboth to: Improve church signage Welcome signage on highway 30	Increase population of town To maintain current businesses and help them grow Encourage new businesses Draw people to the town	Expand businesses in the downtown area Online advertising to reach more people Tax incertives Welcome signs on both entrances of the town on highway 30
Art & Culture	Art & Culture/Community Pride	New landscape in Downtown area Warm welcome signs Improve steter corner appeal Day care center	Attract new businesses Attract younger families Will help the longevity of the school	Signage on Highway 30 Plantings for welcome signs Plantings for main entrances into Gildden
	Safety	Sidewalks along highway 30 Improve lighting throughout town Sidewalks around the high school Repair famaged sidewalks around the high school Coossing areas for highway 30 Fix potholes in the street 30	A lot of children travel on the roadway Highway 20 limits the community's ability to enjoy certain areas of the town To improve children's safety to cholor To improve the aesthetics and ease of use on the streets	Lower speed limit on Highway 30, Arizona Street, and Colondo Street Impliance traffic control sgegals on Highway 30 Redesign Csey's packing lot to gerrfied orblind sposs Coosswalk on Highway 30 from the Aquatic Center to Northland Park
	Connectivity	Connect trails, ball park, and West Side Centerry Connect Hopeway 3 and Architand Park Connect Stocker Sides to Morthland Park Connect Northland Park to West Side Centerry	Currently there is no way to get to the Aquatic Center safely No consistent very to get to the school Damaged side-walls are difficult for people to utilize Percent people from getting injured while traveling on side-walk Altrave active people	Northland Park to West Side Cemetery to the Ball Park on south side of rown Aquatel Center to Northland Park Aguatel Center to Northland Park Bale hase from Afraban Street to Northland Park Sidewalk on east side of High School for safe connection
Recreati	Recreational Opportunities	Design a Recreational Center Improve existing facilities Different types of trails for walking, biking, etc. Rike lane on Arizona Street Design a baskethall court and picklehall court	To prevent local community going cleewhere for recreation To give local community members something to do To help attract other people to the community	Northland Park Include trees and peremials along current trails and new trails
	Natural Resources	• Fix flow of water on streets - Remove dead trees - Remove dead trees - Plant more trees - Implement solar energy to power lights for Northland Park and trails - Have a pond to fish In, area to camp, and a dog park	To belp in improving overall aesthetics Provide safety and socurity Will help in providing recreational opportunities for everyone	Redirect stormwater on the west and south central side of town Trees and perennials on First Street and Colorado Planting beds for welcome signs



Design Team LA: Josh Shields, PLA; Shannon Gapp Intern: Jesse Bell wa State University | Trees Forever | Iowa Department of Transportation





Concept Overview

The Glidden Steering Committee discussed numerous goals which they hope to achieve through implementation of improvements developed through the Community Visioning Process. This discussion included identification of potential projects, along with realizations of the impact that these projects could have on the community. At conclusion of the Performance Objectives Meeting, the Steering Committee decided to focus on the following projects which most aligned with the community's betterment goals:

- · Enhance Northland Park into a recreational area supporting camping and fishing
- Improve safety along the Highway 30 corridor
- · Improve pedestrian connections and opportunities (sidewalks & trails) throughout Glidden
- · Develop a plan to pave the Aquatic Center parking lot



Concept and Inventory Mapping

The Glidden streering committee decused numerous gods that they hape to achieve irrough hypernotation of improvements developed though the Commission Wylsdening process. This discussion included stantification of potential projects, along with the imports these projects. The discussion included stantification of the potential projects, along with the imports these projects may have on the commission. As conclusion of the performance objectives meeting, the stearing commissione decided to focus on the following projects that most disgread with the community's besterment gods:

- Improve pedestrian commissions and apportunities (sidewides & trait) throughout Glidden improve softly doing the Highway 20 doings.

- Develop a plant to pove the Aduction Combing that.

- Enhance Marthland Park into a recreational ones supporting comprising and fishing.

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Concept Overview Glidden

Design Team
LA: Josh Shields, PLA; Shannon Gappi
Internt Jasse Ball

Sidewalk Improvement Plan

The community desired that sidewalk and trail opportunities be reviewed as part of the overall community plan, in response to concern over safety with existing sidewalks or lack of any sidewalk infrastructure. The following plan was developed in order to help the community make decisions prioritizing investments in walkable infrastructure. This plan integrates survey responses from residents indicating their preferred walking and biking routes, along with identified popular community destinations. Though each situation will be different based on available right-of-way, existing vegetation and drainage patterns, the community should plan to implement a minimum 5' sidewalk or 8' trail section separated from adjacent roadways to provide a dedicated pedestrian space within the community.

Key Concept Components

- · Create safe opportunities for the community to navigate around Glidden
- · Improve mobility and efficiency

Design Expertise Recommended

Projects may require help beyond the capability of the visioning committee or available city staff. For this improvement project, the committee should expect to involve the following design professionals: Landscape architect, planner, and transportation/civil engineer. The committee should also expect to coordinate design efforts with the District DOT Office.

Project Scope and Cost Opinion

The following cost opinion is for conceptual design based on current lowa bid pricing. Donated or at-cost materials and volunteer labor, when appropriate, could reduce overall project costs. Additional investigation may be needed to determine the impact trail construction might have on existing utilities, which can be resolved in a subsequent design phase. Additional design/engineering costs are not included in the cost opinion. Coordination with land owners, setting up easements, and/or purchasing land, will also be necessary to complete some trail connections and are not represented in the cost opinion.

	UNIT	QUANTITY	UNIT COST	TOTAL
SIDEWALK IMPROVEMENTS				
Mobilization (Includes all phases)	LS	1	\$79,500	\$79,500
Excavation (Includes all phases)	CY	4,370	\$10	\$43,700
1st Priority				
Sidewalk, Conc. (5" Thick)	SY	4,034	\$55	\$221,870
ADA Detectable Warning Panels	SF	224	\$40	\$8,960
2nd Priority				
Sidewalk, Conc. (5" Thick)	SY	5,537	\$55	\$304,535
Detectable Warning Panels	SF	320	\$40	\$12,800
3rd Priority				
Sidewalk, Conc. (5" Thick)	SY	2,431	\$55	\$133,705
Detectable Warning Panels	SF	152	\$40	\$6,080
4th Priority				
Sidewalk, Conc. (5" Thick)	SY	478	\$55	\$26,290
Detectable Warning Panels	SF	40	\$40	\$1,600
5th Priority				
Sidewalk, Conc. (5" Thick)	SY	638	\$55	\$35,090
Detectable Warning Panels	SF	32	\$40	\$1,280

IMPROVEMENTS SUBTOTAL CONTINGENCY (20%) \$875,410 \$175,082 \$131,312 DESIGN/ENGINEERING FEES (15%)
IMPROVEMENTS TOTAL \$1,181,804

ANITCIPATED COST RANGE \$880,000 - \$1.2 Mil

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Sidewalk Improvement Priorities

Residents who participated in cormunally survey and mapping exercises vaiced concern own incomplete, broken namow, inocoesible or missing sections of sidewalk (see board 3c). This look of connectivity or delayed maintenance mokes it difficult for pedestrians to safely access. community amendes and has forced many residents to walk on neighborhood streets. The design fearn used the walking, being and desired trait routes shown in the Transportation Behavior and Netes. S. x.v.wy (see bacets 4e. 4f. 4g) to ben'thy blownis and trail improvements that woold yield walking and being routes providing recreational apparturables for residents and safe mante such so school for the community's youth.

III

This sidewolk plan was developed to assist the community with prioritizing walkable infrastructure investment. Though each proposed sidewolk hall beforement with be unlique based on many factors – available right-of-way, existing vegletation, strainage patterns, etc. – this pion will guide the corrections of the community with impermentation of a walkable network. In noter to align with accreasibility guidelines, this plant recommends construction of a 0.5 "wide sidework (min.) or 8" wide trail (min.) Separation of infrastructure from adjacent streets with a 4" wide bufferstrip is also recommended to provide a sidework (min.) or 8" wide trail (min.).



Jalk Near Chy Park

Sidewalk Improvement Plan Glidden

Design Team
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Intern. Jasse Bell
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Highway 30 Proposed Enhancements

Through survey input and community discussions, residents identified the connectivity barrier that Highway 30 presents to the community. To that end, there was a desire to explore improvements which would promote safer pedestrian crossings and more streamlined motorist flow through Glidden. Pedestrian crosswalks at Arizona Street and Montana Street would greatly enhance connectivity between residences and amenities on the north and south side of Highway 30 by providing dedicated access points on identified popular biking and walking routes through community surveys.

Safety and visibility were also considerations with adding a turn lane on eastbound Highway 30 at Idaho Street. Current vehicular traffic illegally parks on the shoulder of 30 and decreases sight lines for motorists trying to pull onto Hwy 30. Parked cars also limit motorist's ability to notice the Idaho Street turn, as there are no remarkable visual cues indicating this intersection. The turn lane will not only provide better visibility for both Casey's and Idaho Street, it will also provide for development of a small median capable of providing some softening and visual cues to the otherwise highly paved section of the this Highway 30 corridor.

Key Concept Components

- Provide safe opportunities for pedestrians crossing highway through designated crosswalk areas
- · Bring awareness and caution to drivers through road signs
- · Provide designated turning lane to improve overall safety
- · Enhanced landscaping at the proposed right turn lane

Design Expertise Recommended

Projects may require help beyond the capability of the visioning committee or available city staff. For this improvement project, the committee should expect to involve the following design professionals: Landscape architect, civil engineer, transportation engineer, and sign fabricator. The committee should also expect to coordinate design efforts with the district DOT office.

Project Scope and Cost Opinion

The following cost opinion is for conceptual design based on current lowa bid pricing. Donated or at-cost materials and volunteer labor, when appropriate, could reduce overall project costs.

	UNIT	QUANTITY	UNIT COST	TOTAL
HIGHWAY 30				
Mobilization	LS	1	\$8,000	\$8,000
Excavation	CY	201	\$10	\$2,010
Fraffic Control	LS	1	\$5,000	\$5,000
Turn Lane, Conc. (8" Thick)	SY	402	\$60	\$24,120
Furn Lane Median Curb & Gutter	LF	249	\$40	\$9,960
Sidewalk, Conc. (7" Thick)	SY	19	\$60	\$1,140
Furn Lane Median Planter Bed [Includes plantings, mulch, and amended soil]	SY	626	\$20	\$12,520
Crosswalk Signage w/ Flashing Beacons	EA	4	\$5,500	\$22,000
Pavement Markings & Painted Pavement Symbols	STA	12	\$100	\$1,200
ADA Detectable Warning Panels	SF	32	\$40	\$1,280

SITE IMPROVEMENTS TOTAL	\$117,761
ESIGN/ENGINEERING FEES (15%)	
CONTINGENCY (20%)	
IMPROVEMENTS SUBTOTAL	



Safety Concerns

Through survey input and community discussions, residents identified highway 30 as a sofety concern und corrective the community discussions, residents identified highway 30 as a sofety concern production accosings and more streamlined majority flow board 32. Conflow improvements promoting adder podestation accosing and process, adding official podestran accosings at the intersection of future or community vision by groups, and adding official podestran accosing as the intersection of future and intersection of future and intersection of intersection of future and intersection of int

Concern with decreased sight lines neutring from vehicles liegisty parked deng Highway 30 was also a spice of discussion during community workshops. With no remarkable visual cues far non-resident motorists, parked care stole after the visitable of the facility stress instruction. Constructing a turn form will previde better visitable for motorists both pulling onto and off Highway 30. The addition of a small median separating the turn form Cosey's will suften the parentnern at this highly paved section of те Нутмау 30 сотког.

Design Team
LA: Josh Shields, PLA; Shannon Gappi
Internt Jasse Ball



Hwy 30 Enhancements Glidden

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Aquatic Center Parking

The Glidden Aquatic Center is an important community amenity, especially during summer months. The current parking is unpaved and lacks directional parking striping. It also includes a donor wall near the parking entry with front end parking that is not well defined. With construction of a new shelter east of this parking lot, the community desires a plan which would bring attention to the donor wall while providing more organization to parking for events year round; both at the Aquatic Center as well as the new shelter.

The proposed plan maximizes parking within the current footprint by using a combination of diagonal and pull-in stalls. It also provides space for trees and plantings to shade the new paved lot and highlight the donor wall. These plantings could also use stormwater runoff from the lot; both cleaning pollutants, cooling the runoff and reducing the amount of stormwater ultimately entering the storm sewer system.

Key Concept Components

- · Incorporate green infrastructure through permeable biocells and vegetated medians
- Enhance parking lot with new pavement, designated parking spaces, sidewalks, biocell, street trees and plantings, and monument or statue

Design Expertise Recommended

Projects may require help beyond the capability of the visioning committee or available city staff. For this improvement project, the committee should expect to involve the following design professionals: Landscape architect and civil engineer. Depending on incorporation of stormwater BMP's, the committee may also need to involve: structural engineer and a water resource engineer.

Project Scope and Cost Opinion

The following cost opinion is for conceptual design based on current lowa bid pricing. Donated or at-cost materials and volunteer labor, when appropriate, could reduce overall project costs. Additional investigation will be necessary to determine the condition of and impact to existing utilities, which can be resolved in a subsequent design phase. As a result, not all utility costs are included in the cost opinion.

	UNIT	QUANTITY	UNIT COST	TOTAL
AQUATIC CENTER PARKING LOT				
Mobilization	LS	1	\$19,000	\$19,000
Pavement Removals	SY	1,973	\$9	\$17,757
Excavation & Surface Preparation	CY	1,036	\$10	\$10,360
Parking Lot Surfacing, Conc. (7" Thick)	SY	1,973	\$55	\$108,515
Curb & Gutter	LF	774	\$40	\$30,960
Sidewalk, Conc. (5" Thick)	SY	145	\$55	\$7,975
Pavement Markings	STA	10.9	\$100	\$1,090
Overstory Tree	EA	10	\$550	\$5,500
Ornamental Tree	EA	3	\$400	\$1,200
Biocell/Rain Garden	SY	43	\$25	\$1,075
Entry Monument	LS	1	\$5,000	\$5,000

IMPROVEMENTS SUBTOTAL CONTINGENCY (20%) DESIGN/ENGINEERING FEES (15%) IMPROVEMENTS TOTAL \$208,432 \$41,686 \$31,265 \$281,383

ANTICIPATED COST RANGE \$210,000 - \$300,000





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Arizona St

Parking Lot Improvements

The Clidden Aquatia Center is an important continuity amenty, especially during summer months. The current aggregate parking to looks stell striping and predicties construction of the Abert Kruger St. Shelter. A denier well is located hear the parking lot entry. The community desired a polying job refer the parking lot that would accommodate year-nound events write brinking actiention to the existing dance wall.

The proposal plan maximites porking by using a combination of diagonal and pull-in statis. Additional policytal or provide an elegan proposal or provide access to the decrease. The plan content of the provide access to the decrease the decrease of Apositic Content or an intelligent while for also provides space for trees and bruskope gloralings to shader every powerment while providing traditional to statemental report of the providing traditional for statemental report tradit. These plantings could element and color pollutation and color providing traditional to account of stormwater entering the storm server and color modification and color provides an account of stormwater entering the storm server and provided traditional provided to the constant of stormwater entering the storm server.



Rain Garden Captures Runolf From Parking

Glidden

Aquatic Center Parking





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Northland Park Plan

Residents highlighted Northland Park as a major destination for recreation. The park already has trails and provides scenic views, but the community would like to expand the park's use. Proposed enhancements include deepening the west pond and adding a dock to accommodate fishing, adding camping opportunities for RVs and tent campers, providing a trail connection to the Merle Hay Memorial Cemetery and adding trail segments to increase connectivity within the park while promoting educational opportunities.

Residents highlighted Northland Park as a major destination for recreation. The park already has trails and provides scenic views, but the community would like to expand the park's use. Proposed enhancements include deepening the west pond and adding a dock to accommodate fishing, adding camping opportunities for RVs and tent campers, providing a trail connection to the Merle Hay Memorial Cemetery and adding trail segments to increase connectivity within the park while promoting educational opportunities.

Key Concept Components

- · Improve recreation opportunities through fishing pond, docks, boardwalks, trails, tent camping, and RV parking
- · Provide opportunities for shade and improved aesthetics through overstory and ornamental tree plantings
- Provide opportunities for education through interpretive signage

Design Expertise Recommended

Projects may require help beyond the capability of the visioning committee or available city staff. For this improvement project, the committee should expect to involve the following design professionals: Landscape architect, civil engineer, water resource engineer, structural engineer, and sign fabricator.

Project Scope and Cost Opinion

The following cost opinion is for conceptual design based on current lowa bid pricing. Donated or at-cost materials and volunteer labor, when appropriate, could reduce overall project costs.

	UNIT	QUANTITY	UNIT COST	TOTAL
NORTHLAND PARK				
Mobilization	LS	1	\$77,000	\$77,000
Excavation, Class 13	CY	1,830	\$10	\$18,300
Pond Dredging & Grading	CY	18,388	\$15	\$275,820
RV Camping Drive and Stalls, Conc. (7" Thick)	SY	2,432	\$60	\$145,920
8' Wide Trail Extension, Conc. (5" Thick)	SY	1,591	\$55	\$87,505
Crushed Limestone Trail (4" Depth)	CY	56	\$60	\$3,360
Pavement Markings	LS	1	\$500	\$500
Boardwalk w/ Helical Anchors	SF	1,373	\$50	\$68,650
Fishing Pier w/ Railing	SF	1,517	\$35	\$53,095
Site Furnishings (Benches)	EA	3	\$1,750	\$5,250
Educational/Interpretive Sign	EA	2	\$3,000	\$6,000
Overstory Trees	EA	54	\$550	\$29,700
Evergreen Trees	EA	25	\$600	\$15,000
Ornamental Trees	EA	18	\$400	\$7,200
Prairie Restoration Seeding	AC	3.44	\$4,500	\$15,480
Wetland Restoration Seeding	AC	8	\$4,000	\$31,080
Optional Improvements				
Electrical Services	LS	1	\$5,000	\$5,000
Dump Station & Sanitary Sewer	LS	1	\$35,000	\$35,000
Water Services	LS	1	\$10,000	\$10,000
IMPROVEMENTS SUBTOTAL				\$889,860.00
CONTINGENCY (20%)				\$177,972.00
DESIGN/ENGINEERING FEES (15%)				\$133,479.00
SITE IMPROVEMENTS TOTAL				\$1,201,311.00

ANTICIPATED COST RANGE \$850,000 - \$1.2 Mil







Northland Park Summary

credited webland and profits areas, as well as trait. The community would like to expend the partial use to include febring and comping. Proposed part like to expend the partial use to include febring and comping. Proposed part listing pier and adding commy the west profit to add an accessible febring pier and adding commy and profits and listing community would like to explain a trail commercial to the proposed to the profit of the





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Northland Park Plan Glidden

Design Team
L.A. Josh Shields, PLA; Shannon Gapp
Innerr, Jesse Boll



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Implementation Strategies-Glidden

The Visioning Program is the beginning of the planning process for implementation of projects that will contribute to an enhanced quality of life in Glidden. Despite the tremendous value in data gathering, analysis, conclusions, and recommendations; the greatest value is providing residents of Glidden with the opportunity to look at their community from different perspectives and to motivate future positive change. It is the design team's intent to provide the community with a framework for significant future development and enhancement to community resources.

Recommendations

Project implementation should be determined based on the priority given it by the community and also with the realization of available funding sources. These funding sources may be through grants and private donations, but may also be in the form of volunteer labor, donated materials, or donated services.

The projects have been developed with a variety of different scales in mind, allowing some to be more easily realized than others. By reviewing the available resources and developing an implementation plan, the community can move forward towards realizing the fruits of its vision.

The primary goal of the community as it moves forward should be planning for successful projects. Successful implementation of a project allows for public support and interest to grow and can quickly lead to availability of additional and more diverse implementation resources – a community with a history of successful projects and involvement is more appealing to funding agencies. Therefore, a smaller project that fits the following criteria is generally recommended as a starting project for the community to undertake:

- 1. Is highly visible
- 2. Has a good chance of receiving a grant or funding assistance
- 3. Can use volunteers
- 4. Is not overly complicated

Because the information depicted on each board is conceptual in nature, the edits, sketches, and other deliverables are not intended for use as final design/construction documents. They need to be further developed with the help of professionals during a "design phase." During a design phase, concepts will be refined and developed to determine the actual character, size, and essentials that will become part of the final project. The final products from this phase may retain the general concepts depicted on the boards, but may look vastly different because of constraints or opportunities unknown during the visioning process. However, the design that emerges from final design may also look very similar to that developed during the Visioning Program.

Available Resources

There are many creative ways that communities can raise the resources necessary to fund and implement projects. The following list is a compilation of various sources and opportunities for funding the projects conceptualized during the visioning process. This list is not all-inclusive; it is meant to serve as a tool to assist in brainstorming ideas.

Funding Opportunities

- Grants
- · Partnerships (private and public)
- · Trusts and endowments
- · Fund-raising and donations
- Memorials
- · Volunteer labor
- Low-interest loans
- · Implementation of project in phases

Funding Sources

- · Iowa Department of Transportation
- · Iowa Department of Natural Resources
- · Iowa Department of Education
- · lowa Department of Economic Development
- · Utility companies
- · Trees Forever

Grant Programs

- · Alliant Energy and Trees Forever Branching Out Program
- Federal Surface Transportation Program (STP)
- · Iowa Clean Air Attainment Program (ICAAP)
- · lowa DOT/DNR Fund lowa
- · Iowa DOT Iowa's Living Roadways Projects Program
- Iowa DOT Living Roadways Trust Fund Program
- · Iowa DOT Pedestrian Curb Ramp Construction Program
- · Iowa DOT Statewide Transportation Enhancement Funding
- · Iowa DNR Recreation Infrastructure Program
- · Land and Water Conservation Fund
- · National Recreational Trails Program
- · Pheasants Forever
- · Revitalization Assistance for Community Improvement (RACI) Grant Program
- · State Recreational Trails Program
- Transportation Alternatives Program (TAP)