

Nebraska State
Records Board
440 S 8th St Ste 210
Lincoln, NE 68508
(402) 471-2745

John A. Gale
Chairman



APPLICATION FOR STATE RECORDS BOARD GRANT TO IMPROVE ACCESS TO PUBLIC INFORMATION

The Nebraska State Records Board is sponsoring a grant program for Nebraska government agencies for the development of programs and technology to improve electronic access to state government information and services. Grants will be awarded for one time funding of small projects. No grant request shall exceed \$25,000.00. The grants may be used for the creation or enhancement of electronic access and delivery of government services and information, but not to fund ongoing operations. Nebraska government agencies wishing to apply for these grants may want to first contact Nebraska.gov to establish feasibility and scope of the project.

Applications received by April 20, 2011 will be considered for funding by the NE State Records Board at their meeting on July 20, 2011.

NOTE: Loss of Funding. The NE State Records Board may be unable to award grant funds, in whole or in part, in the event funding is no longer available.

Grant Criteria

Grant projects requesting funding must meet criteria #1-3.

1. Enhance the delivery of local government agency services and improve the public and business access to those services.
2. Meet the all applicable Nebraska Information Technology Commission Standards and Guidelines. State's technology access clause for providing equal access to services for persons with disabilities. A copy of the technology access clause is available at: <http://www.nitc.state.ne.us/standards/index.html> under 2. Accessibility Architecture.
3. If the project or service created or improved pursuant to the grant application involves the licensing, permitting or regulation of businesses, then the project or service must allow integration with the State of Nebraska's Business Portal at: <http://www.nebraska.gov/index.phtml?section=business>, and the One-Stop Online Business Registration System at: <http://www.nebraska.gov/osbr/cgi/domestic.cgi?osbraapplication/init/init/None>.

In addition, the following criteria will be considered when reviewing applications:

- Does the project enhance the delivery of state/local government agency services and improve the public, government and business access to those services?
- Does the project reduce the amount of reliance on human capital, paper, and office overhead?
- Does the project span more than one office or agency?
- What is the size of the customer base for this service and the geographic impact?
- Is there financial and or in kind contribution from other partners?
- Is there documented community support for the project?

Responses are required to all questions in Parts I , II & III in order to be considered for funding:

Part I. Grant Summary

- 1. Name of agency applying for grant:** Madison County, Nebraska
- 2. Title of project:** WebGIS for County
- 3. Brief description of project:** Installing a WebGIS system in Madison County will not only make Assessor property data and Planning and Zoning maps accessible to the general public and various entities, it will also help all departments in the County by letting them access land record and zoning information easily and quickly.
- 4. Grant amount requested:** \$ 25,000
- 5. If the grant is to create an application, is the application to have a fee associated with its use for accessing public records, or is the application free for use by the public, businesses and other governmental agencies?**
No, no fee is associated with access.
If there is to be a fee, provide any statutory authorization for assessing the fee.
- 6. If the grant application is for a Geographic Information System project, do you and the agency you represent agree to share the data collected in that project, without costs, with other interested government agencies in the State that may have a need for such data?** Yes

Part II. Grant Detail

1. Please describe the project in detail, to include your vision for the project. (You may attach this description).

Madison County has a GIS system already in place with the Assessor's and Planning offices. The WebGIS technology will be accessed through the internet on a specific website designed for Madison County.

Upon installing WebGIS in Madison County will also be helpful to other entities in the Courthouse. The Clerk's Office will be able to field inquiries for information; the Treasurer's Office will be able to use it for tax inquiries. The Weeds department will use it for determining property owners and property location for spraying noxious weeds and issuing notices to landowners. They will be able to use the WebGIS as a tool for recording important infestation data. The County Election Office will better determine exact voter precinct maps.

Installing the WebGIS system in the Assessor's Office will assist dispatch in determining exact locations for 911 calls and emergencies. It will also benefit our Fire Departments and Ambulance Departments to aid in their quick response to emergencies.

The WebGIS System will be generated and maintained by GIS Workshop, Inc. servers, and will give public access to the assessment data base by property owner, address, and parcel ID numbers. If the above are unknown, there will also be an option available for the user to manually select a parcel and from the view the data connected to obtain their information.

The Madison County Assessor, Zoning Administrator and Weeds Superintendent, the Board and the Sheriff, among others, feel that this WebGIS system will be useful and a time saver for the County, by being available on the Internet it enables the general public to access this information at any time.

2. Please describe who the beneficiary or recipient of this service will be.

Madison County Offices of Assessor, Clerk, Treasurer, Election, Sheriff, and Flood Plain administrator, Emergency Manager, Road and Bridge, and Weed Department will benefit from this program. Property owners, Banks, Insurance Companies, Appraisers, Realtors and the cities and village in Madison County will have access to the property assessment and valuation information at no extra cost to them. Efficiencies realized from 24/7 access will result in increased productivity and cost savings within the County Departments.

3. What is the projected activity for access or use of the proposed service?

The WebGIS is internet-based so access will be available to the general public via a web address. Sensitive data, such as the Sheriff department may want to have available to their team but not the general public, is able to be password protected so that departmental staff may access even though public access may need to be limited. Madison County Offices of Assessor, Clerk, Treasurer, Election, Sheriff, Flood Plain administer and Emergency Manager, Property owners, Banks, Insurance Companies, Appraisers, Realtors and the Cities and Village in Madison County will have access to the property assessment and valuation information at no cost to them. The public will be notified of the WebGIS site by mailings, newspaper notices/press releases and informing people in person at the County Offices.

- 4. Timeline for implementation of the project (a specific completion date (MM/YYYY) must be provided). Grant funds may lapse if not expended prior to completion date.**

Dec 15, 2011

- 5. Please specify in detail your, or any other Subdivision(s) contribution to the project (financial, labor, equipment etc.). Provide specific dollar amounts.**

Madison County Assessor's and Planning and Zoning departments do data entry and maintains current data to assure all information is correct and up to date. GIS Workshop will be hosting the site, interfacing with the Assessor's CAMA data for display in the WebGIS program and training on the use of the County site.

- 6. Is other funding available for this project (explain)? Please explain what efforts your agency has made to obtain funding.**

Madison County is not aware of any other funding for this project.

- 7. Does the project require additional statutory authority (explain)?**

No

- 8. Specify (in detail) what the grant money will be used for. Include a complete cost breakdown of the project. Please attach bids from vendors (if applicable) and describe the relationship, if any, between a vendor and you or your agency.**

We have received basic pricing from vendor GIS Workshop, Inc. to develop a WebGIS for Madison County and an overview of the project is shown below (proposal information is available upon request). The contract is for development of a WebGIS for Madison County, which will make information available 24/7. It also includes a tab for the Weeds Department and GPS equipment for recording of important infestation information. The total amount of grant money awarded to Madison County will be used to defray the following initial GIS development expense.

Development of WebGIS by GIS Workshop, Inc	\$26,000
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- 9. Why the grant money is needed for the project, and, if applicable, how will the service be sustained once the grant money is expended?**

The grant money is needed to allow the public access to important County information and to increase efficiency in the future. Madison County will agree to maintain the

program and any fees that go along with it to keep the system up and running for future years through budgeting of this County-wide GIS project and by making it a priority.

10. Should available fund not allow the NSRB to grant the full amount requested, but a reduced amount, would this project still be financially feasible?

The full amount will be necessary to implement the WebGIS and pay for several years to allow a County-wide GIS budget to be established. The County fully anticipates being able to fully meet annual maintenance costs of the GIS afterward.

11. Please describe how this project will enhance the delivery of government agency services and improve the public and/or business access to those services.

The WebGIS site will enhance the ability to retrieve up-to-date information faster and more efficiently via a web-based application. It will give the ability to access taxation information, sales information, mapping ability, not only to the public but also to County Offices and the many different entities that we correspond with daily. It will enhance public safety by the Weeds Department's ability to effectively and efficiently track noxious weed infestations in Madison County.

12. Please describe how this project will improve the efficiency of agency operations.

The program will better serve the public with the ability to acquire information in a timely manner. The office staff will realize significant time savings which will provide us the time needed to do office work without the time spent on telephone calls, receiving parcel information, retrieving information and then faxing, printing or mailing the information to the many entities. Cost savings will occur as a result of these efficiencies.

13. Please describe how this project will facilitate collaboration between either local, state, federal and/or other public or private institutions.

This program will allow for faster service among the offices of the Assessor, Clerk, Treasurer, Sheriff, Emergency Manager, Weeds, Road and Bridge, and the Planning and Zoning Administrator. There are also other agencies which will benefit from this program such as the public, schools, emergency services, and the many entities that we serve.

14. Does the project involve the licensing, permitting or regulation of business? If yes, explain how the project or service will allow integration with the State of Nebraska's Business Portal, located at:

<http://www.nebraska.gov/index.phtml?section=business>, and the One-Stop Online Business registration system located at:

<https://www.nebraska.gov/osbr/index.cgi>

No. This is not applicable.

15. Community Support. Please include letters of support to document the public expression that has caused you to implement this application.

Attached

Part III. Technical Information

1. Describe the hardware, software, and communications needed for this project and explain why these choices were made.

The construction of the Website is included in the fee with GIS Workshop. Madison County will purchase the additional years of maintenance fees, which will include unlimited maintenance, which will continue to keep this program current, and to continue to be beneficial. Access to the data from the WebGIS program will be throughout the Internet. For persons that do not have Internet access, it may be possible to establish a public computer kiosk at the Courthouse. Madison County believes that this program is necessary to keep the public up to date and informed and to increase efficiency across all departments.

2. Address any technical issues with the proposed technology including:

- **Conformity with general accepted industry standards. Projects which interface with other state systems (such as distance learning systems) must meet NITC technical standards and guidelines. (The NITC standards and guidelines are located at: <http://www.nitc.state.ne.us/standards/>).**
- **Compatibility with existing institutional and/or statewide infrastructure.**
- **Reliability, security and scalability (future needs for growth or adaptation).**

The WebGIS system will interface with the Assessor's TerraScan database system in use in Madison County.

The proposed software/technology is Esri based. This is the industry standard GIS technology in Nebraska today.

Our vendor, GIS Workshop, Inc. has stated to us (informally) that any systems or data they construct meets all the applicable NITC and FGDC standards for GIS data and metadata.

3. Describe how the project will comply with the State's Technology Access Clause: meet all applicable Nebraska Information Technology Commission Standards and Guidelines. A copy of the Standards are available at:

<http://www.nitc.state.ne.us/standards/index.html>. under 2. Accessibility

Architecture.

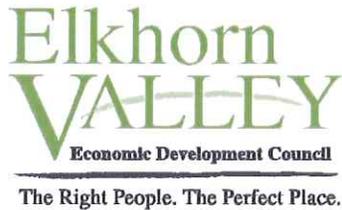
The WebGIS for Madison County will be built and designed by GIS Workshop, with adherence to standards established by the State of Nebraska. The digital map database has been developed using the Nebraska State Plane Coordinate System, NAD83 as per State/NITC guidelines. The system will comply with any other applicable NITC items.

4. Describe how technical support will be provided.

GIS Workshop will host the WebGIS site on their redundant servers. Madison County will be responsible for updating all property data in their current GIS in place. GIS Workshop will download a copy of the TerraScan data file every 24 hours to ensure that the data is up-to-date on the GIS Workshop server. GISW has a dedicated technical support staff that is available at any time during business hours to service Madison County's needs. GISW will fully train the Weeds department on the use of the Trimble GPS equipment and the corresponding Esri software used to record Weed infestation information.

Part IV. STATE LAW COMPLIANCE

Nebraska law, sections 4-108 through 4-114 state that no political subdivision of the State shall provide public benefits, to include grants or contracts, to a person not lawfully present in the United States. If this application is awarded in whole or in part, and during the time the grant is in effect, the undersigned, on behalf of the political subdivision grant applicant, by signing this grant application, affirmatively states and acknowledges that the political subdivision will comply with this law.



April 15, 2011

Nebraska State Records Board
440 S 8th St Ste 210
Lincoln, NE 68508

Good Afternoon:

I am the Executive Director for the Elkhorn Valley Economic Development Council (EVEDC). On behalf of my organization, I am writing in support of Madison County's Grant Application to Improve Public Access to Public Information.

EVEDC is a collaborative public-private partnership formed to promote new economic development opportunities and to support existing businesses in the Madison, Pierce, and Stanton counties. The Elkhorn Valley region of Northeast Nebraska, centered on the hub city of Norfolk, offers unique Nebraska economic development opportunities through a collaboration of local governments, education, business leadership and technological resources that are organized and committed to the success of business.

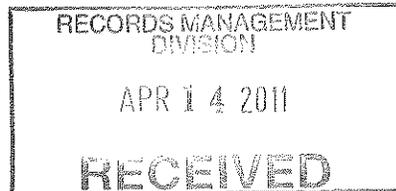
The Elkhorn Valley Economic Development Council will be able to take advantage of the services Madison County could provide via the internet. Quick and accurate information on zoning, parcel information, flood plains, etc. will be accessed often by us. Having this information easily accessible, by the click of a mouse will surely expedite our process on projects.

The presence of this information on the internet will not only be of assistance to us, but to our prospective clients and the general public as well. It has been our pleasure to support this project. Please feel free to contact me if you have any questions! We thank you for your time and consideration of this significant project.

Best regards,

A handwritten signature in black ink that reads "David Simonsen".

David Simonsen
Executive Director



City of Newman Grove

P.O. Box 446 - Newman Grove, NE 68758-0446

Phone (402) 447-6444 FAX (402) 447-2264 TDD (800) 833-7352 cityofng@myusacomm.net

Fawn M. Steiff, Mayor

Daniel A. Fullner, City Attorney

P.O. Box 424 - Madison, NE 68748

Earl A. Zeller, City Clerk/Treasurer

(402) 454-1000

April 12, 2011

Nebraska State Records Board
440 S. 8th St. Suite 210
Lincoln, NE 68508

Dear Sirs,

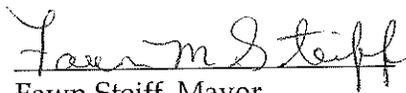
I wish to express my support for the Madison county Grant application to Improve Public Access to Public Information

The City of Newman Grove will be able to take advantage of the services Madison county could provide via the Internet, including data on flood plains, parcels, and zoning.

Easy Internet access to this public information will benefit us, our citizens, and our potential clients, thus improving our customer service. Having the data available online makes it so much easier for multiple people to access vital information quickly and effectively.

Thank you for your time and attention in this matter.

Sincerely,


Fawn Steiff, Mayor


Earl Zeller, City Clerk

1105 S. 13th St., Suite 206
Norfolk, NE 68701

April 14, 2011

Nebraska State Records Board
440 S 8th St., Suite 210
Lincoln, NE 68508

Good Afternoon,

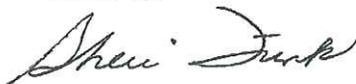
I am writing to extend my support of Madison County's Grant Application to Improve Public Access to Public Information.

As President of the Norfolk Board of Realtors, I know the real estate agents I represent will appreciate being able to access the services Madison County will be able to provide via the internet. Quick and accurate information on zoning, parcel information, and flood plains will be of great value to us.

The presence of the information on the internet will not only be of assistance to us, but also to our prospective clients and the general public. This will definitely improve our customer service. Our county has useful data, but the ability to combine it in interactive map form on the internet will make the data even more usable and accessible.

It is our pleasure to support this worthwhile project.

Sincerely,

A handwritten signature in cursive script that reads "Sheri Funk".

Sheri Funk
President, Norfolk Board of Realtors

Schroeder Land Surveying
1004 Norfolk Avenue
P.O. Box 1324
Norfolk, NE 68702
Phone: 402-371-7400 Fax: 402-371-7351
lschroeder@cableone.net

April 13, 2011

Nebraska State Records Board
440 So. 8th Street, Suite 210
Lincoln, NE 68508

Board Members:

I am writing in support of Madison County's Grant Application to improve public access of property information via an inter-active mapping application.

Quick and accurate property information on the internet would benefit Schroeder Land Surveying. By having all property information available via an inter-active mapping would make researching property information for future potential clients much easier and more accurate. Schroeder Land Surveying would access this information often.

Madison County already has all of this information, but it is not all in one spot. By combining all property information (parcel information, zoning, flood plains, ect.) would be very beneficial to all users.

Thank you,



LaVern F. Schroeder



Engineering
Architecture
Surveying
Planning

April 12, 2011

Nebraska State Records Board
440 S 8th Ste 210
Lincoln, NE 68508

RE: Grant Application

The purpose of this letter is to express our support for Madison County's Grant Application to Improve Public Access to Public Information.

Our company employs land surveyors who would find it advantageous to utilize the services Madison County could provide via the internet. We could foresee that quick and accurate information on zoning, parcel information, flood plains, etc. would be accessed often.

Having this information on the internet would be a great service to our potential clients and the general public.

When considering this project, please note that we are very supportive of the improvement of internet data in inter-active map form.

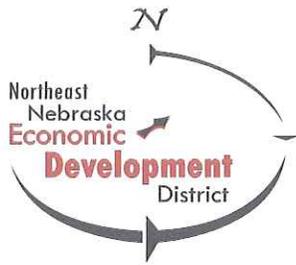
Sincerely,

JEO CONSULTING GROUP, INC.



Jeffrey S. Ryan, R.L.S.

4-12-11lr



Building
Communities

April 12, 2011

Nebraska State Records Board
440 S 8th St Ste 210
Lincoln, NE 68508

RE: GIS grant

The Northeast Nebraska Economic Development District is in support of Madison County's Grant Application to Improve Public Access to Public Information.

Empowering
Families

This service will be extremely helpful on community and economic development projects we work on with the county. Access to information such as zoning, parcel information, flood plains, etc. is very important to us.

The presence of this information on the internet will help us respond more timely to business recruitment and expansion, housing, and public works infrastructure projects. It is our pleasure to support this very worthwhile project.

Sincerely,

Thomas L. Higginbotham Jr

Advancing
Businesses

Thomas L. Higginbotham Jr
Executive Director

**CITY OF MADISON
PO BOX 527
MADISON, NE 68748-0527
402-454-3412 Fax 402-454-2262**



Mayor: Robert Nathan, City Council: Robert Jurgens, Tim Reeves, Lyle Jurgens, And Jeff Prather

April 8, 2011

Nebraska State Records Board
440 S 8th St Ste 210
Lincoln, NE 68508

To Whom It May Concern:

I am writing in support of Madison County's Grant Application to Improve Public Access to Public Information.

The City of Madison will be able to take advantage of the services Madison County could provide via the internet. Quick and accurate information on zoning, parcel information, flood plains, etc. will be accessed often by us.

The presence of this information on the internet will not only be of assistance to us, but to our prospective clients and the general public as well. This without a doubt will be able to improve our customer services. The county has great data currently, but putting it in inter-active map form available on the internet just makes the data better and much easier to access.

It has been our pleasure to support this very worthwhile project.

Sincerely,

Gina Ainsworth
Madison City Clerk

Village of Meadow Grove

208 Main Street, PO Box 258

Meadow Grove NE, 68752

Phone & Fax 402-634-2225

April 11, 2011
Nebraska State Records Board
440 S 8th Ste 210
Lincoln NE 68508

Good Afternoon:

I am writing in support of Madison County's Grant Application to Improve Public Access to Public Information.

The Village of Meadow Grove will be able to take advantage of the services Madison County could provide via the internet. Quick and accurate information on zoning, parcel information, flood plains, etc. will be accessed often by us.

The presence of this information on the internet will not only be of assistance to us, but to our prospective clients and the general public as well. This without a doubt will improve our customer services. The county has great data currently, but putting it in inter-active may form available on the internet just makes the data better and much easier to access.

It is our pleasure to support this very worthwhile project.

Sincerely,

Crystal Elznic
Meadow Village Clerk

City of Tilden
Box 37
Tilden, NE 68781

April 13, 2011

Nebraska State Records Board
440 S. 8th St. Suite 210
Lincoln, NE 68508

Greetings:

The Mayor and City Council fully support of Madison County's Application to improve Public Access to Public Information.

The City of Tilden will be able to take advantage of the additional services Madison County could provide via the internet. Quick and accurate information on parcel and tax information, zoning, flood prone areas, etc. will be accessed often by the Mayor and Council Members and support staff.

The presence of this information on the internet will not only be of assistance to us, but to builders and architects along with the general public. Access to the information will also improve our customer services. Interactive map form access on the internet makes the data better and much easier for the general public to gain access on their home computers or at the computer lab available free of charge at the Tilden Public Library.

It is our pleasure to support this very worthwhile project.

Sincerely,

Patricia A. Borgelt
for the Mayor and City Council Members.
City of Tilden

Supplemental Questionnaire for State Funded Entities on Land Record Information and Mapping-Related Grant Applications

Numbers refer to specific NITC Land Record Information and Mapping Standards

For a complete listing of these standards and guidelines please see:

http://nitc.nebraska.gov/gisc/docs/LRMS_20060127.pdf

- 1.1 Datum. Local government multipurpose GIS/LIS (Geographic Information System/Land Information System) and their associated geospatial data layers should be based on the North American Datum (NAD) 83 and the North American Vertical Datum (NAVD) 88. Any existing systems developed based on other datums should consider conversion to these datum.**

Please describe how you would comply with this standard if you are awarded a Nebraska State Records Board grant.

100% compliance: All GIS data that are constructed or converted as part of this project will use the specified datums.

- 1.2 Projection. The Nebraska Plane Coordinate System, NAD 83, should be used as the primary map projection system for the recording of positions in local land-data systems in Nebraska. Selection of any other projection should be done reluctantly and only after most careful consideration. The plane coordinate values for a point on the earth's surface may be expressed in either meters or feet.**

Please describe how you would comply with this standard if you are awarded a Nebraska State Records Board grant.

100% compliance: All GIS data that are constructed or converted as part of this project will use the specified projection.

- 1.3 Geodetic Control. GIS/LIS systems developed with the goal of providing a multipurpose cadastre for local government use should be referenced to a local geodetic reference framework that is properly connected to the National Spatial Reference System (NSRS).**

Please describe how you would comply with this standard if you are awarded a Nebraska State Records Board grant.

100% compliance: The GIS data will reference the available geodetic control in the project area as gathered from the NE State Surveyor and/or county/local surveyor.

- 1.4 Public Land Survey System Control.**

- 1.4.1 PLSS Geodetic Framework. For all land in Nebraska that is subdivided according to the Public Land Survey System (PLSS), the geodetic**

reference framework for the cadastre should be the section corners of the PLSS for each section.

Please describe how you would comply with this standard if you are awarded a Nebraska State Records Board grant.

100% compliance: All applicable GIS data (cadastre based data) will reference and fit within the NE PLSS.

- 1.4.2 Locate, Monument, and GPS Primary Corners. At a minimum, local government entities developing a geospatial land information system should initially invest in a precision Global Positioning System (GPS) survey to locate, re-monument as necessary, and obtain the geographic coordinates of the major boundary defining corners that legally define the boundaries of their county jurisdiction(s). These precision GPS survey coordinates for the boundary defining corners should be collected and integrated as framework data into the land information system. This effort should be coordinated with officials from the adjacent county (ies) to ensure agreement on the location of the shared corners.**

Please describe how you would comply with this standard if you are awarded a Nebraska State Records Board grant.

100% compliance: The project will utilize all available GPS based monumentation from NDOR, NE State Surveyor and the county surveyor.

- 1.5 PLSS Base Map. Local governments considering the development of a multipurpose GIS, should consult with the Nebraska State Surveyor's Office to locate and access the best available data on the Public Land Survey System (PLSS) for their geographic area. To assist the State Surveyors Office in maintaining a repository of the best available PLSS data, local governments participating in the Nebraska Land Information System Program should share any enhanced PLSS data, for their geographic area, with the State Surveyors Office so that it might be integrated into the PLSS repository database.**

Please describe how you would comply with this standard if you are awarded a Nebraska State Records Board grant.

100% compliance: The project will utilize all available PLSS data from the NE State Surveyor. Any new or reset PLSS monumentation/control will be supplied to the NE State Surveyor via the county/local surveyor.

- 1.6 Ortho-base (Aerial Layer) or Base Maps. Both a Public Land Survey System base map and an orthophoto (surface features) base map should be used to provide the geospatial reference framework upon which a local government**

multipurpose land information system is developed. Both base maps should be tied to the National Spatial Reference System and have a level of spatial accuracy appropriate to the range of applications planned for a given area.

Please describe how you would comply with this standard if you are awarded a Nebraska State Records Board grant.

100% compliance: The project will utilize the NAIP/FSA imagery as the base imagery and provide the necessary tie to the National Spatial Reference System. By using these data, the project by default will be provided with the necessary level of spatial accuracy.

1.7 Map Scale and Spatial Accuracy.

1.7.1 Minimum Horizontal Accuracy Standard. Public entities developing a GIS/LIS program should conduct data collection and development in a manner to achieve at least the minimum level of horizontal spatial accuracy consistent with the National Horizontal Map Accuracy Standards corresponding to a 1:12,000 (1"= 1,000') scale map (90% of the "well defined" horizontal locations must be within ±33.3 ft. of their real world location).

Please describe how you would comply with this standard if you are awarded a Nebraska State Records Board grant.

100% compliance: The project will utilize the NAIP/FSA imagery as the source base map. These data meet or exceed the stated accuracy requirements, thus the GIS data constructed using these based map data will meet or exceed these stated minimums.

1.8 Legal Lot and Parcel Layers. Two graphic data layers are necessary to provide the foundation for a wide variety of local government GIS/LIS applications that involve land subdivision and/or ownership.

a). The legal lot layer consisting of legal land subdivisions. These are aliquot portions of the PLSS, filed subdivision plats and irregular tracts defined by filed deeds.

b). The parcel layer that defines ownership tracts of land. These tracts may group multiple legal lots into one taxable account and that typically represents the boundaries of a landowner's property. These data layers include locational coordinates for points representing property corners, lines between property corners representing property boundaries and closed polygons representing the property area.

Please describe how you would comply with this standard if you are awarded a Nebraska State Records Board grant.

100% compliance: Where the source data exists, both layers will be constructed, if applicable to the project.

1.9 Parcel Identifiers.

a). Each county/region should adopt a system of unique, permanent feature identifiers (PID) that provide the link between each graphic land ownership parcel polygon and the attribute information (ownership, size, situs address, value, etc.) related to that specific land ownership property parcel.

b). A county/region PID system must be designed in a manner such that a unique, statewide PID can be defined and maintained for each property parcel by using the county FIPS code (Federal Information Processing Standards Publications) as a prefix to the county/region's PID system.

c). To maintain this unique one-to-one association between a specific property parcel and its related attribution information, new PIDs should be assigned whenever a property parcel is altered by either splitting it into two or more parcels or by combining two or more parcels to form a new parcel. The previous PIDs should not be used for these new modified parcels, but the historical PID associations should be maintained through a parent/child PID reference table.

Please describe how you would comply with this standard if you are awarded a Nebraska State Records Board grant.

100% compliance: The PID system currently in use in the project area meets all three requirements.

1.10 Spatial Data Format. A broad range of state and regional applications require property parcel information. Many of these applications require the combining of data across jurisdictional boundaries. To facilitate these applications, the property parcel spatial (graphic) data should be either maintained in a manner that allows it to be readily integrated in a common geographic data format (i.e., shapefile) or be capable of being exported into a common geographic data format (i.e., shapefile), while including the parcel identifiers.

Please describe how you would comply with this standard if you are awarded a Nebraska State Records Board grant.

100% compliance: The data will be maintained in a common format (ESRI geodatabase or shapefile). Both these formats are Open GIS Consortium (OGC) compatible.

Data Sharing-Data Integration. A major focus of the State Records Board grant program is enhancing access to public records. Not only the general public,

but also other public agencies benefit from facilitating access to public records. As noted in the NITC standard above there are numerous applications for which substantial benefits can be derived by integrating data across jurisdictional boundaries. Please describe whether your agency would be willing to share periodic updates of GIS-enabled property parcel data, such that other agencies might integrate that data into statewide or regional datasets to provide a resource for public agencies and the general public and any restrictions that you anticipate might apply. *(Note: this is not a current NITC standard, but is an interest of the State Records Board)*

100% compliance: Yes, these data may be shared.

- 1.11 Metadata. All geospatial land record databases, and their associated attribute databases should be documented with Federal Geographic Data Committee (FGDC) compliant metadata outlining how the data was derived, attribute field definitions and values, map projections, appropriate map scale, contact information, access and use restrictions, etc.

Please describe how you would comply would this standard if you are awarded a Nebraska State Records Board grant.

100% compliance: FGDC compliant metadata will be created as part of the project.

- 1.12 Attribute Data. To provide the foundation necessary for a wide variety of local government applications, non-graphic, attribute data should be organized within the GIS/LIS, which describes individual property parcels relative to their basic parcel characteristics, tenure, value, history, buildings and units within the parcel, and tax status. In most cases, much of this attribute data will already exist in separate databases within a variety of local agencies and should be tied to the graphic property parcel via the unique PID. To meet a range of state and regional applications that require property parcel information, the following types of property parcel data should be maintained (for every property parcel?) and (be) available in a manner that allows it to be harvested, translated, and integrated into a statewide property parcel attribute dataset.

PID# Parcel identifier (county FIPS code plus local government PID)
Situs Address Address of parcel (may be multiple fields)
Owner Address..... Address of property owner (may be multiple fields)
Township Township #
Section Section #
Range Range #
Range Direction..... East or West
Legal Description Narrative legal description of parcel
Assessed Value..... Total assessed value of property (land and improvements)
Land Value Assessed value of land
Area (Deeded)..... Area of parcel according to the deed
Property Class (Res, Ag, Com, Rec., Ind.)
Property Sub-class ... i.e., Ag (Dryland, Irrigated, Grassland/Pasture, Waste)

Ownership typeFederal, State, County, Private, Tribal, Exempt, Other and Unknown
 Tax District..... County ID plus Tax Dist. #
 School District State number definition
 Landuse Actual landuse with NPAT defined general categories
 Property Parcel Type .NPAT defined categories
 Status (Vacant, Improved or Improved only) (NPAT defined)
 Location (Urban, Sub-urban, Rural)(NPAT defined)
 City Size 1st class, 2nd class, primary, metro, or village
 Source Document Sales/transfer reference or document (book & page)
 Recording Date..... Most recent sales/transfer date
 Sales Value Most recent sales value

Please describe how you would comply would this standard if you are awarded a Nebraska State Records Board grant.

100% compliance: These data are already maintained and will continue to be maintained and may be readily “harvested” from the CAMA/Administrative database.

Collaboration. In most instances, the development of a local government GIS system and the related geospatial data involves a fairly costly initial upfront investment. These costs are frequently offset by the benefits gained through coordination and collaboration that an integrated GIS can bring to local government and related public entities. For example, with property parcel data and maps the County Register of Deeds, the County Surveyor, and the County Assessor all frequently maintain and make changes to aspects of this data and the data is also commonly used by local public safety agencies, local emergency responders, local transportation agencies and state agencies such as the Dept. of Revenue, Dept. of Roads, and Game and Parks Commission. Please describe the level and nature of any multi-agency/department involvement in the planning and proposed management of your proposed GIS system.

Numerous departments (Sheriff, Planning/Zoning, Clerk, Roads, Weed Department, etc) have expressed interest in collaborating and building upon using GIS technology to enhance their service provision to the public. Some local jurisdictions have also expressed interest in collaborating and building upon the base mapping this project will create. We feel that this project will kick start GIS within this region and really provide the basis for better and more efficient collaboration between departments and agencies moving forward.



Madison County, NE

Proposal for County WebGIS

March 2, 2011



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PROJECT OVERVIEW

The Madison County Assessor currently provides a simple, text-based property search via a GIS Workshop (GISW) website. The County Departments of Madison County sees the need to share GIS property data across all County departments and the public through a WebGIS solution. The Department managers seek to increase efficiency in the Departments' services by providing property information to the public in an internet mapping context. Madison County also wishes to establish the Assessors' department as the foundation for subsequent departments within the County to participate in the GIS site. They wish to establish a WebGIS for the County with tabs for various departments, including Assessor, Planning and Zoning, Clerk, Weeds and other interested departments such as Emergency Manager, Roads, etc.

The following layers and tools will appear as tabs on the new Madison County WebGIS Site:

Requested Assessor tab layers:

1. Parcels
2. Sections

Requested tools on the Assessor tab include:

1. Search tool for property owner identification via the property card
2. Quick identify tool for one-click basic ownership information
3. Zoom in/out slider bar
4. Pan tool
5. Measurement tool (for measuring distances and areas)

Requested Planning and Zoning tab layers:

1. Parcels
2. Zoning Map including Battle Creek, Madison, Meadow Grove, Newman Grove and Tilden; including Norfolk West Wellhead protection area and airport zoning area
3. Floodplains
4. Swine confinement
5. Latest aerial imagery

Requested tools on the Planning and Zoning tab include:

1. Search tool for property owner identification via the property card
2. Quick identify tool for one-click basic ownership information
3. Zoom in/out slider bar
4. Pan tool
5. Buffer tool (for locating property owners within a user-specified distance of a parcel)
6. Measurement tool (for measuring distances and areas)

Requested Weeds tab layers:

1. Parcels
2. Streets and roads (centerline)
3. Latest aerial imagery
4. Weed Infestation map
 - a. *Trimble GPS mapping hardware and software will be required for developing the Weed Infestation map and is on a separate Trimble quotation as part of this project. Please reference separate Trimble quotation for details and pricing.*

Requested tools on the Weeds tab include:

1. Search tool for property owner identification via the property card
2. Quick identify tool for one-click basic ownership information
3. Zoom in/out slider bar
4. Pan tool
5. Buffer tool (for locating property owners within a user-specified distance of a parcel)
6. Measurement tool (for measuring distances and areas)

GISW proposes to design and build an enterprise WebGIS for Madison County, NE, in which other departments within Madison County will build upon and integrate with the assessment GIS foundation in the Assessor's office. Currently, the Madison County Assessor GIS data is not available online, only basic property card information is available in a text search format. GISW will build an Assessor tab for the enterprise WebGIS site as a first step to provide this GIS information to the public and to other County departments.

The system is designed to leverage the investment the County made in the assessment GIS to promote online GIS for multiple departments. The parcel database provides the framework to add other departments in the future. For example, the highway department may choose to start using GIS to effectively disseminate information to the public. The highway superintendent will be able to use the base mapping (parcels, roads, floodplains, etc) and work with GISW to add other tools and layers such as road signs, bridges, culverts, and road maintenance and condition. If a County department is not "enabled" the icon is simply grayed out and unavailable.

ENTERPRISE WEBGIS FEATURES

The WebGIS will allow anyone with Internet access to search for and look at maps concerning assessor, planning and zoning information, weed information and any other data associated with future tabs.

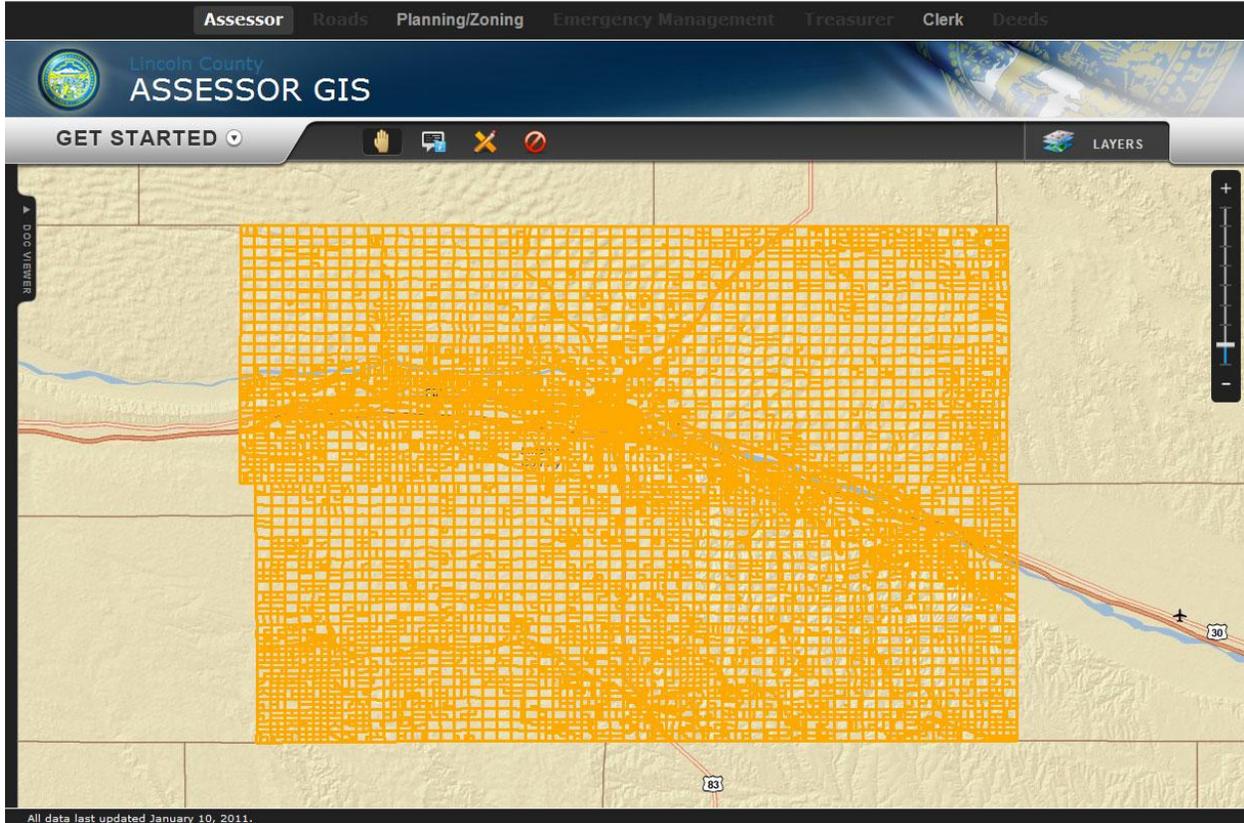


Figure 1: Opening screen (Assessor Tab) of GIS Workshop’s Enterprise WebGIS for Madison County, NE.

FEATURES AVAILABLE FOR MULTIPLE DEPARTMENTS (TABS)

Several features will be common to multiple WebGIS tabs. Standard layers including parcels, sections, road centerline and aerial photography are available to all departments. Map features include searching using the ‘Get Started’ drop-down menu, navigation, quick identify tool, and the measurement tool. Each feature is described in detail below.

DATA LAYERS

The default data layers include County parcels and public land survey system (PLSS) sections. The parcels will be labeled with their parcel ID (PID) when the user zooms in far enough for the PID to fit inside the parcel boundary. The PLSS section layer is mainly used to help with zooming to a specific section/township/range but it is available as a visible layer on the map.

The WebGIS opens to the Assessor tab with parcels and base map (includes road centerlines, political boundaries, and a shaded relief topography background) layers visible (as seen in Figure 1). The user can switch to a satellite view that includes 2010 FSA aerial photography (as seen in Figure 4).

SEARCHES (GET STARTED)

Complete property and sales information is available within seconds via the search features. Under the 'Get Started' drop-down menu, the 'Find a Property' options include owner name, parcel ID, address, legal description or sales criteria. Figure 2 illustrates the 'Get Started' options.

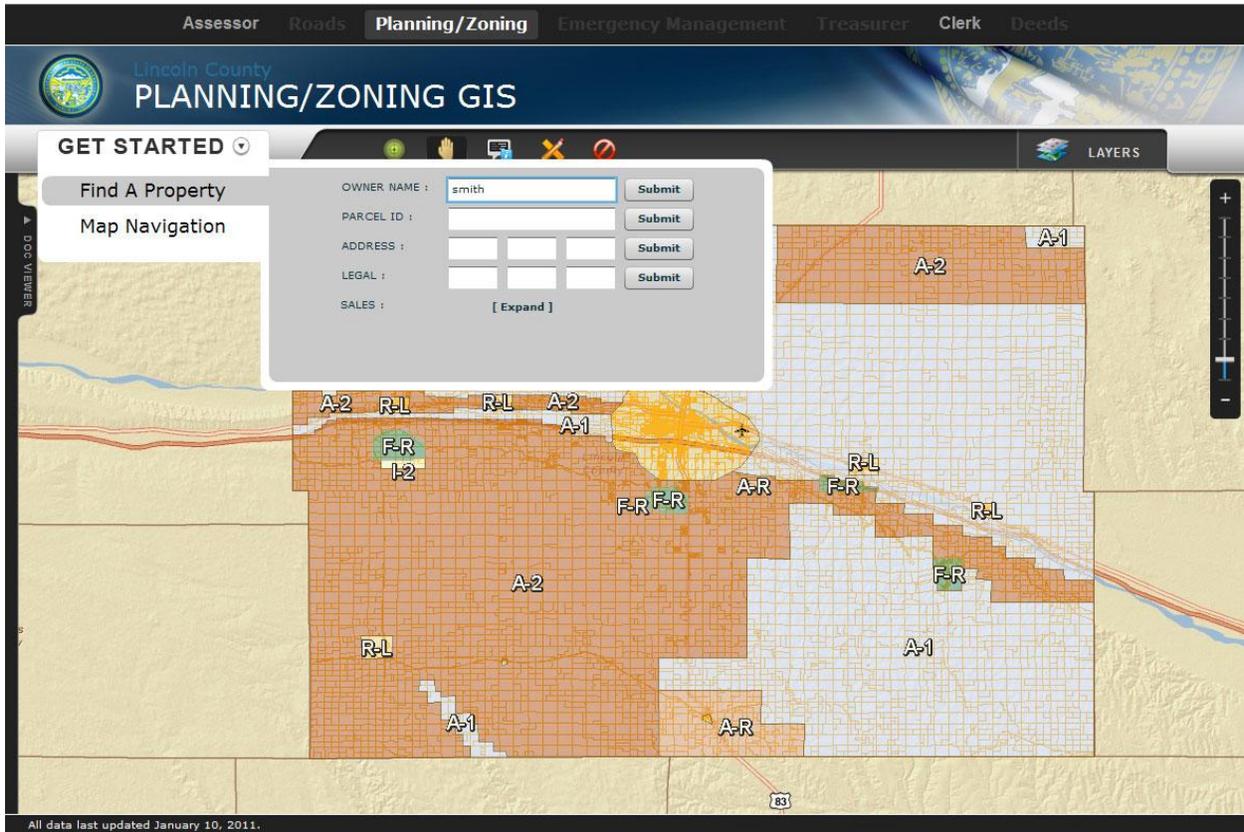


Figure 2: Planning and Zoning tab showing property search box

MAP NAVIGATION

A slider bar for general zoom in/out viewing is available at all times. Additionally, under the 'Get Started' drop down menu, the map navigation option allows the user to 'zoom to section/township/range'. Easy panning or the ability to move the map around is possible via the pan tool icon located in the toolbar. Figure 3 illustrates the Zoom slider bar and pan tool (hand icon).

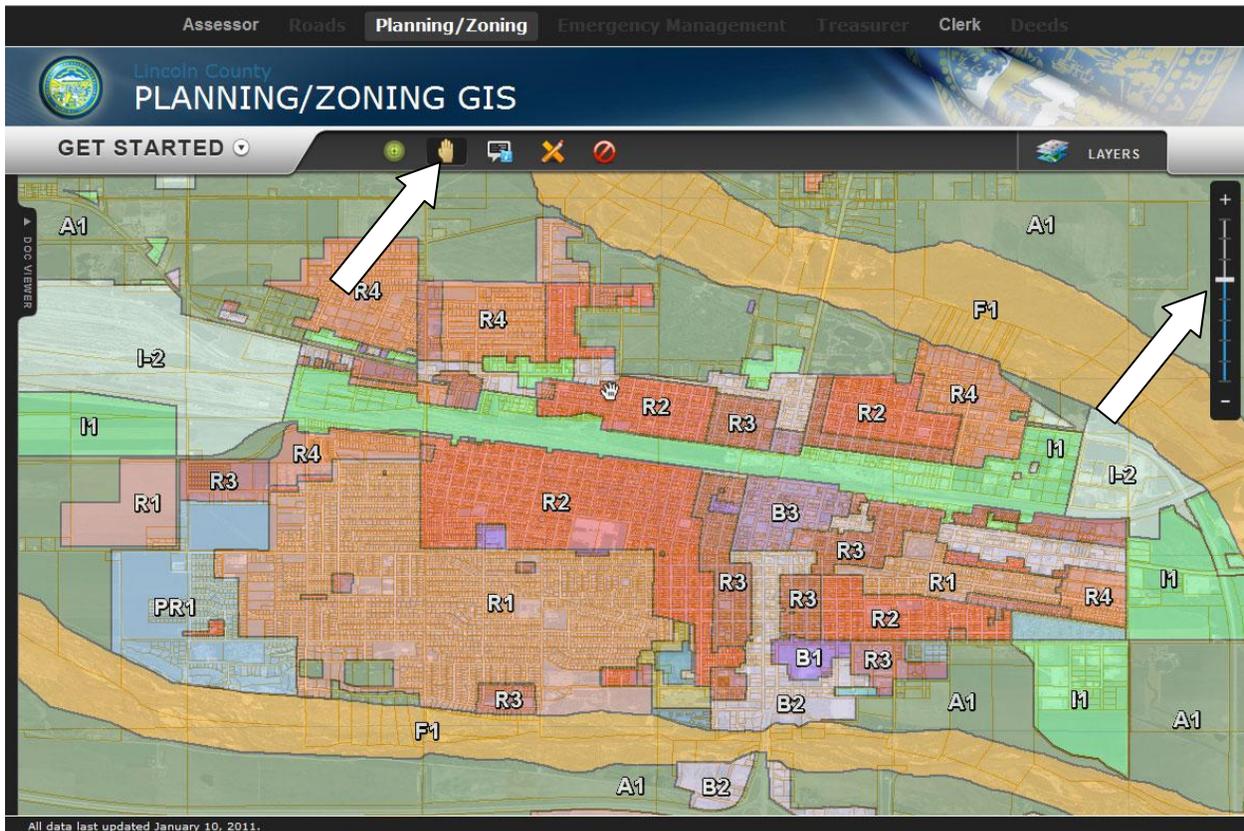


Figure 3: Zoom slider bar (right side) and activated pan tool icon (hand) in horizontal toolbar

QUICK IDENTIFY TOOL

The quick identify tool allows a user to click inside a parcel on the map to see a pop-up window appear with basic parcel, owner name, and address information. The quick identify tool is shown in Figure 4 below. Property card information is also available through the identify tool.



Figure 4: Activated Quick Identifier tool and information box result with link to Property Card

MEASUREMENT TOOL

Length (feet, meters, miles, and kilometers) and area (acres, square feet, square meters, square miles, and square kilometers) measurements can be easily performed via the measurement tool. Using this tool, simply click at the starting point and double click at the ending point to measure a length or draw a polygon by clicking at each vertex location to measure the area. The total measurement appears in a box at the top of the screen as seen in Figure 5 below.

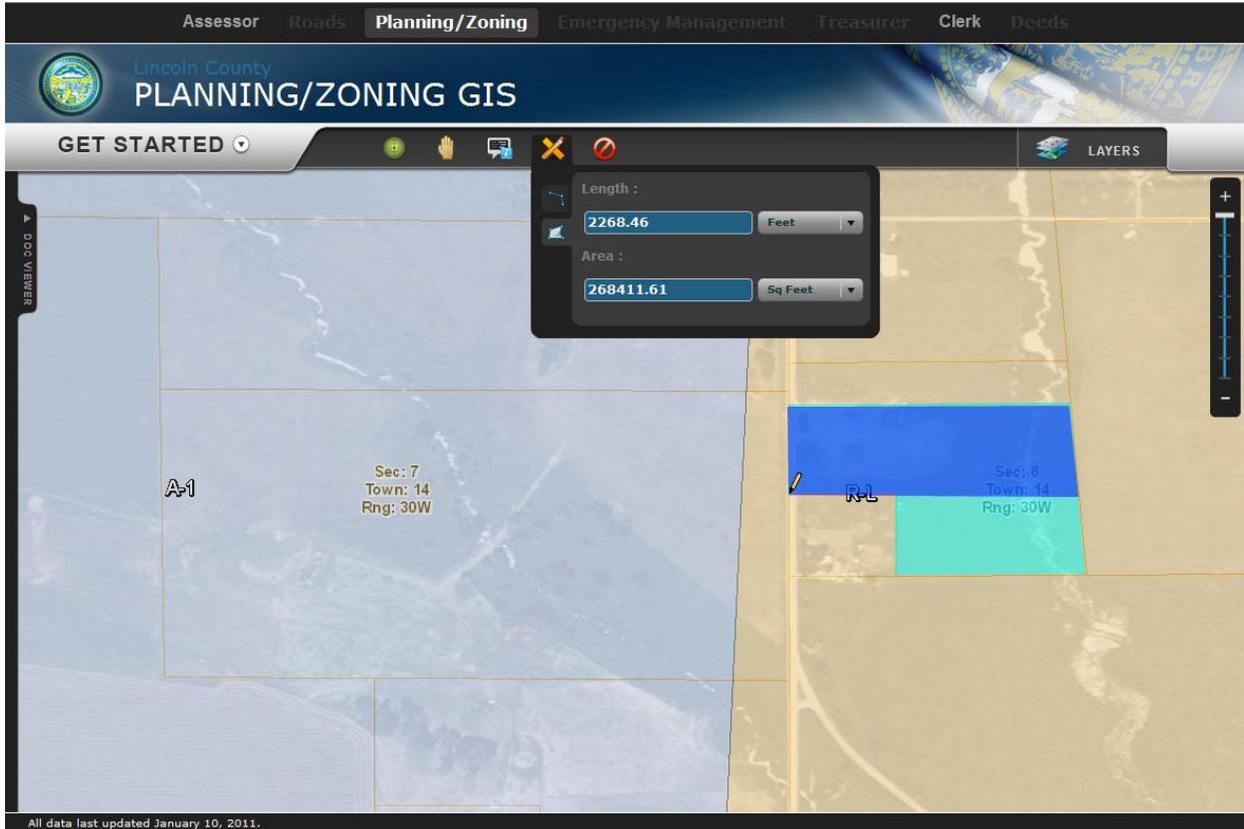


Figure 5: Measurement tool showing total length and area of the user-drawn line segments.

PLANNING & ZONING AND WEEDS TAB WEBGIS FEATURES

The Planning and Zoning and Weeds tabs will include all the features discussed above (parcels, sections, map background, satellite (aerial) background, searching, navigation, identify and measure) plus data layers and the buffer tool specific to the needs of the Zoning and Weeds Administrator, in addition to property data (parcels and ownership information) from the Assessor’s office. The digitized maps requested by the Zoning and Weeds Administrator will be displayed for internal and external access. Users will be able to turn individual layers on and off by checking a box in the layers dropdown box (Figure 6).

The separate Planning and Zoning and Weeds WebGIS tabs will include all the standard tools mentioned above.

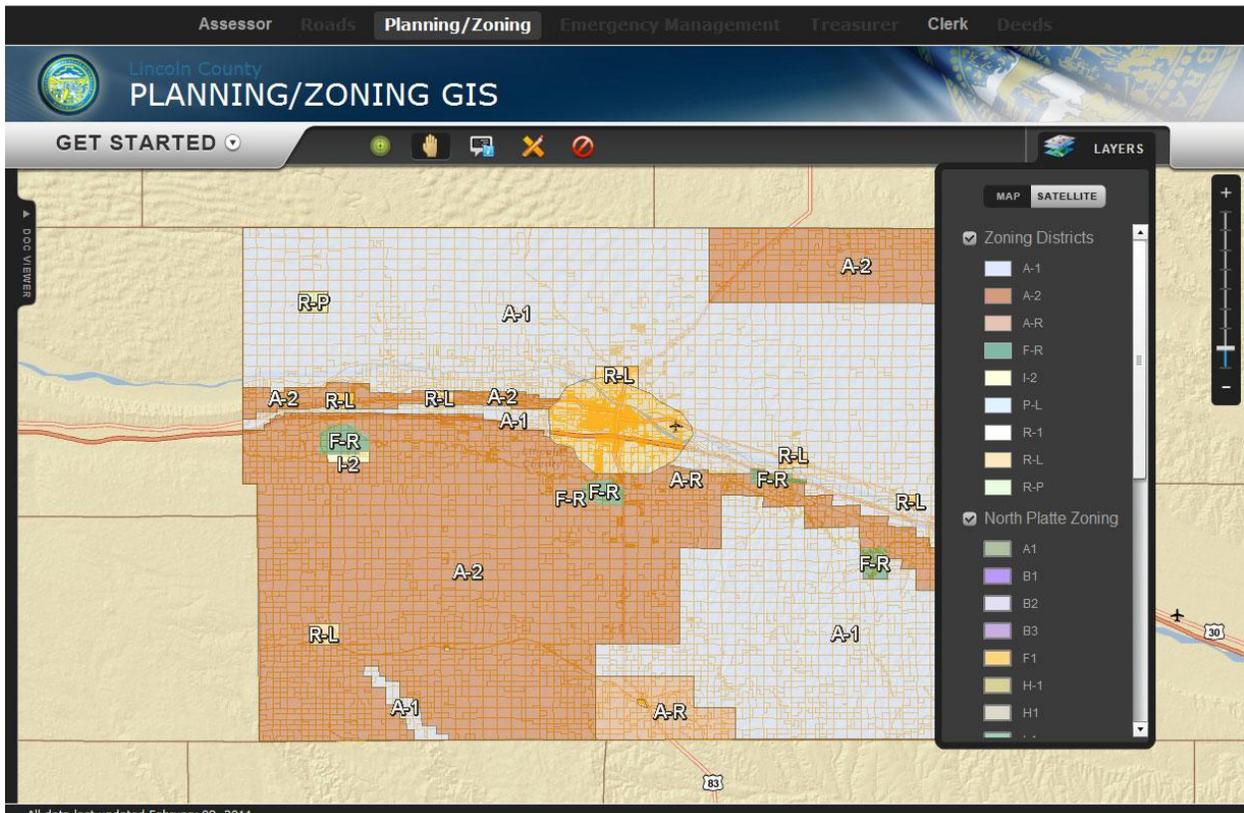


Figure 6: Layer Options

BUFFER TOOL

The buffer tool identifies property owners within a user-defined radius (feet or meters) of a selected parcel. This information is available as a report that can be printed to a PDF document. 7 and 8 illustrate the buffer tool functionality.

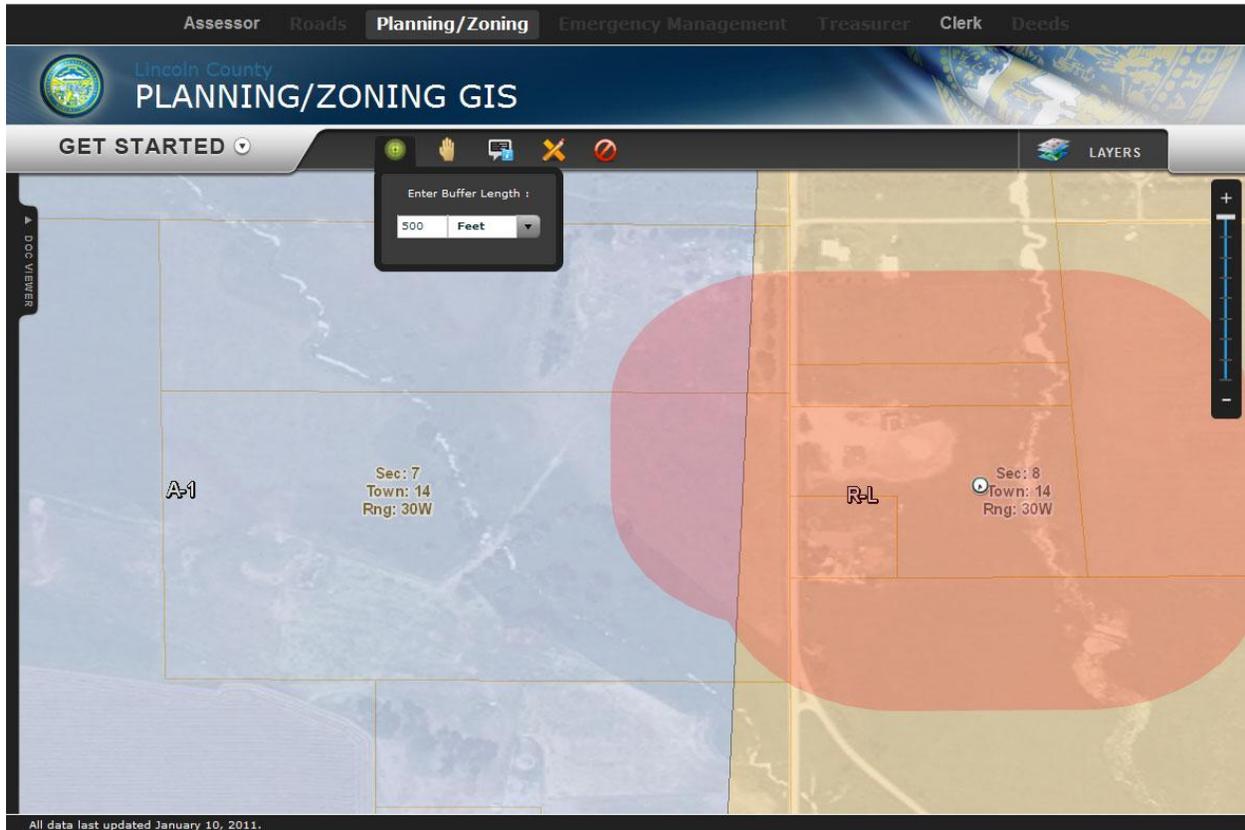


Figure 7: Activated Buffer tool with 500' radius result around the chosen parcel

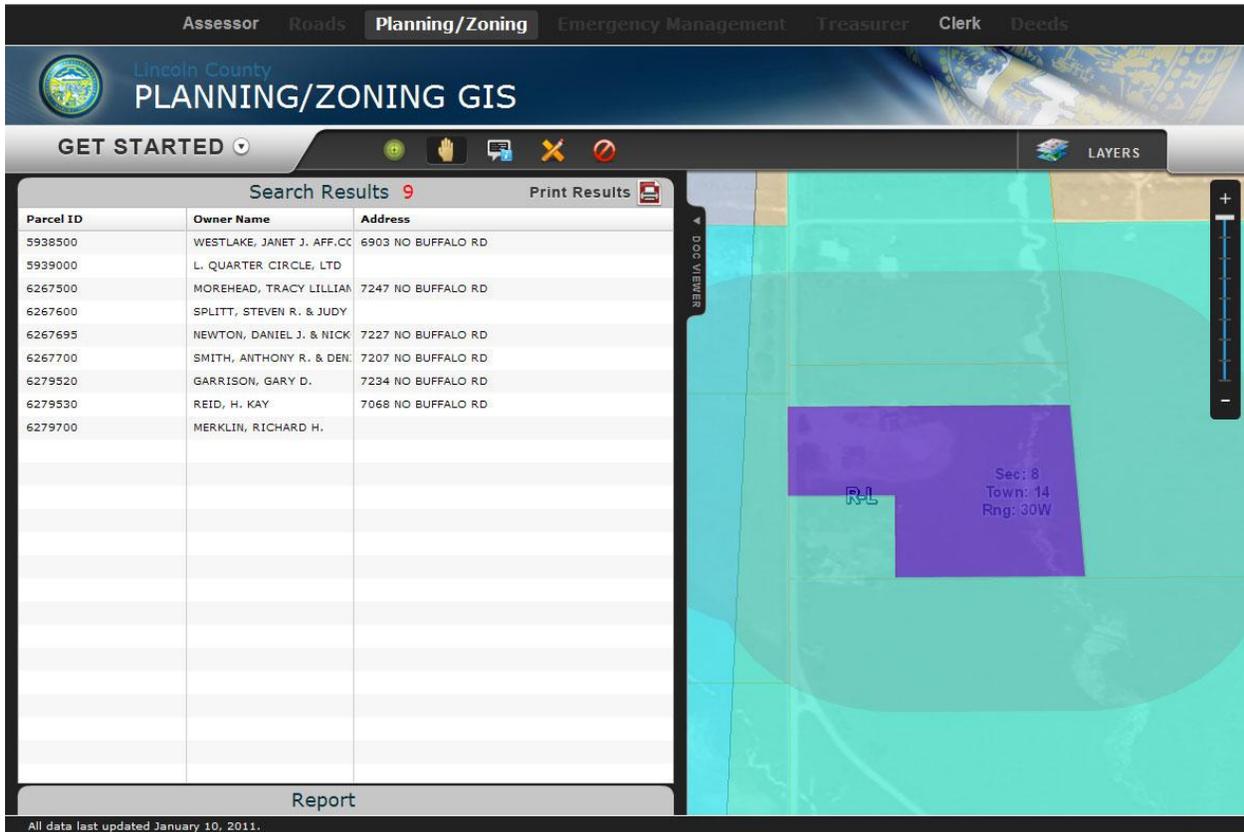


Figure 8: Property owner search results from the buffer analysis.

WEBSITE MAINTENANCE

GIS Workshop will house the WebGIS on our redundant servers for Madison County. Maintenance fees will be payable annually in July.

DATA MAINTENANCE

The Assessor data is updated every 24 hours as part of a separate contract. Other data layers will be updated on an as-needed basis as part of the maintenance fees for each department.

PROJECT SCHEDULE

The GISW team is ready to develop the Madison County WebGIS project after acceptance and receipt of a signed contract according to the tasks described in this proposal. We anticipate project completion by December 15, 2011. Because of our reliance on various County offices to perform certain steps in the project, we cannot be held liable for any delays in delivering the final product.

PRICING INFORMATION

The following provides the total and detailed costs for the services and deliverables described in this proposal. Variations and/or additions to those tasks, features, or services stated within are subject to additional costs at our standard consulting rate of \$125/hour. Any change orders must be documented, signed by both parties and added as an addendum to this scope with the additional costs for said change order added to the following costs.

Deliverable	Cost
Madison County WebGIS, to include:	
Assessor Tab set-up	\$2,500
Yr 1 WebGIS Maintenance	\$5,000
P&Z Tab set-up	\$2,500
Yr 1 WebGIS Maintenance	\$2,500
Weeds tab set-up	\$2,500
Yr 1 WebGIS Maintenance	\$2,500
<i>(NOTE: please refer to separate Trimble quotation for GPS-related equipment to be used by Client in development of the Weeds tab.)</i>	
Total Upfront Costs	\$ 17,500
Yr 2 and beyond Annual WebGIS maintenance (Assessor tab) :	\$5,000
Yr 2 and beyond Annual WebGIS maintenance (P&Z tab) :	\$2,500
Yr 2 and beyond Annual WebGIS maintenance (Weeds tab) :	\$2,500

