

2019-10

<b>GEQCOMM</b>	<b>Work Order # 20181003 – KCNE</b> Site/Structure Address Point Layer Development October 4, 2018
Geo-Comm, Inc. 601 W. Saint Germain St. St Cloud, MN 56301 Phone (320) 240-0040 Fax (320) 240-2389	<b>Keith County Emergency Operation Center, Nebraska</b> Laurie Hood, Interim Director 501 North Spruce Street Ogallala, NE 69153 Phone (308) 284-2011 lhood@keithcountyne.gov

Full Regional One Time Cost	Price Per Point	Total Price
Keith County Regional Site/Structure Address Point Layer Development (Keith, Grant, Hooker, Arthur, McPherson, Logan and Perkins Counties)	\$3.71	\$38,036
<b>Total:</b>		<b>\$38,036</b>

Geo-Comm, Inc. (GeoComm) will develop a site/structure address point (SSAP) layer for Keith County Emergency Operation Center (EOC). The new SSAP layer will be built following industry best practices, which will result in a final SSAP layer that can be used in the most common public safety/9-1-1 applications.

Estimated project duration for work included in this agreement is four (4) months.

If a parcels layer in Esri format with site addresses cannot be provided for the project, additional charges will apply.

Site/Structure Address Point Layer Development is a one-time service. Future map data updates will be completed by GeoComm through the Keith County EOC GIS map data maintenance agreement. Pricing is valid if all counties participate in the regional project.

A full scope of work is attached to this Work Order as Exhibit A. Keith County EOC responsibilities are attached to this Work Order as Exhibit B.

Keith County EOC agrees to pay GeoComm \$38,036 plus any applicable sales tax upon project completion and certification by the PSC.

Agency: Keith County Emergency Operation Center, Nebraska	
Agency PO# (if required by Customer)	
Print Name:	Kim H. Elder      Laurie Hood
Signature:	<i>Kim H. Elder</i> <i>Laurie Hood</i>
Date:	2-27-19      2-26-19

## Phase Two: Site/Structure Address Point Layer Updates

GeoComm will update the Site/Structure Address Point Layer based on the Nebraska Information Technology Commission (NITC) Address Standards (NITC 3-206).

### Site/Structure Layer Development

GeoComm will develop the site/structure address point layer for Keith County EOC based on resources provided by Keith County EOC. If there are any discrepancies between approved project resources, GeoComm will work with Keith County EOC for verification. Site/structure layer update processes will include:

<b>Field Structure</b>	<p>The GIS data schema for the newly developed site/structure layer will be setup to comply with NITC Address Standards (NITC 3-206). At minimum, GIS layer attributes categorized as "Required" will be populated if required resources are available for the project.</p>
<b>Spatial Updates and Address Development</b>	<p>Using the tax parcels, GeoComm will create an initial address layer out of parcel centroid points. Point placement methodology will follow recommendations outlined in the NITC Address Standards (NITC 3-206) document and NENA Information Document for Site/Structure Address Point GIS Data for 9-1-1 (NENA-INF-014.1-2015).</p> <p>For multi-unit structures (e.g., apartment complexes, strip malls, mobile home parks) where a point does not already exist, GeoComm will create one new point for each building with a unique street address number (not including unit numbers) and will work with Keith County EOC to establish an agreed-upon point placement methodology. If multiple points already exist for individual units of a multi-unit structure, these points will be retained but will not be moved. Alignment for individual units can be provided for an additional fee.</p>
<b>Confirmation of Point Placement and Address Accuracy</b>	<p>Points that cannot be accurately added or updated using available resources will be placed at the best-known location and flagged as needing further/or future investigation. After GeoComm has finished initial site/structure address point layer development, a shapefile or list of address points that could not be confidently built will be provided to Keith County EOC for review. This list will include assessment codes or notes detailing why the address or location is in question. Keith County EOC would be responsible for confirming the correct address or address location and providing that information to GeoComm within 30 days or agreed upon timeframe. GeoComm will adjust address points based on feedback provided within this timeframe.</p> <p>Note: Alternatively, Keith County EOC may contract with GeoComm for field verification to investigate questionable addresses. This service can be provided upon request, for an additional fee. Pricing will vary based on the number of points requiring verification.</p>
<b>Synchronization</b>	<p>GeoComm will compare the Road Centerline, Master Street Address Guide (MSAG), and Automatic Location Identification (ALI) database to the site/structure address point layer to identify any addresses with landline telephones that are not currently represented in the site/structure point layer. Missing points will be added using aerial imagery, existing site/structure points, and available city/county-provided resources such as tax parcels as a guide. Newly added points will be attributed with address information from the ALI database and existing GIS data layers.</p> <p>The comparison process will also uncover any address discrepancies between the Road Centerline, MSAG, ALI database and the site/structure address points. GeoComm will investigate these discrepancies using existing GIS data layers as a guide. If the site/structure address point layer appears to contain errors, the address will be updated as needed. Questionable addresses and suspected MSAG or ALI database errors will be flagged for Keith County EOC's review.</p> <p>Note: GeoComm is not responsible for any updates needed in Keith County EOC's ALI database or MSAG. If it is determined that an address is incorrect in the ALI database or MSAG, GeoComm will notify Keith County EOC for resolution.</p>

## **Exhibit A – Scope of Work**

GeoComm will develop an SSAP layer for Keith County EOC. The new SSAP layer will be built following industry best practices, which will result in a final SSAP layer that can be used in the most common public safety/9-1-1 applications.

GeoComm's approach includes leading industry experts who will complete the following phases to provide an exceptional end product that will meet the needs of Keith County EOC as well as future Next Generation 9-1-1 (NG9-1-1) Location Validation/Call Routing in the State:

- Phase One: Project Initiation
- Phase Two: Site/Structure Address Point Layer Updates
- Phase Three: Quality Control
- Phase Four: Final Review and Updates

GeoComm will provide regular status updates that will include:

- General progress updates
- Meetings held, planned, or needed
- Issues/problems encountered or anticipated
- Goals for the next reporting period
- Schedule review
- Keith County EOC responsibilities

### **Phase One: Project Initiation**

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After receiving a signed contract, one of the first steps is to make certain the GeoComm project team has an in-depth understanding of Keith County EOC's project goals. To accomplish this, our staff will hold a project initiation conference call with you to:

- Introduce project stakeholders to the GeoComm project team
- Review project objectives and goals
- Define mutual expectations
- Establish communication processes
- Review the project timeline, including periodic progress reporting
- Review State of Nebraska GIS data standards
- Discuss initial GIS data schema
- Discuss existing resources that may be used in developing the GIS data layer

### Phase Three: Quality Control

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Quality control (QC) is an integral part of all our projects. Before the final GIS data is provided to Keith County EOC, GeoComm's GIS Specialists will complete numerous QC audits to ensure the final map data deliverables are accurate.

GeoComm's QC methods are specific to the GIS data needs of the public safety industry; we have developed and implemented a structured QC program to increase the accuracy of public safety GIS data. GeoComm's QC procedures are powered by GeoComm GIS Data Hub, which offers the ability to export detailed results to ensure that all errors are found and fixed.

After Keith County EOC's GIS data updates are complete, it will be run through the QC checks and data condition results will be compiled. Issues detected outside of scope will be referred back to Keith County EOC for resolution. The QC process will proceed as follows:

- GeoComm will perform quality control checks on the submitted data
- GeoComm will correct the GIS data errors outlined in the data quality reports provided by the system that are within scope of the project agreement
- The data will be rerun through the QC checks to verify the changes have been properly made

### Phase Four: Final Review and Updates

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After initial map data updates are complete, GeoComm will provide a list of remaining errors for Keith County EOC to review.

GeoComm will complete one additional comparison of the ALI database and MSAG to the map data layers if updated versions are provided within one month of the delivery of the suggestions. GeoComm will review the results of this comparison and complete additional map data updates, if deemed necessary.

When the final updates are complete, GeoComm will provide Keith County EOC with the deliverables outlined in the following section.

## **Exhibit B – Customer Responsibilities**

It is requested that Keith County EOC provide the following general project support:

- Provide pertinent project information and documentation
- Assist in ongoing quality control
- Provide a single point of contact at Keith County EOC available for communication throughout the project and system implementation
- Submit required GIS information (e.g. GIS map data, public safety databases, and/or other resources) to our website (<http://www.geo-comm.com/industries/gis/data-submission/>)

In addition to the requirements above, Keith County EOC will be responsible for the following project- specific support:

- Assist in coordinating and attend periodic conference calls
- Existing GIS data in Esri format including map projection information
- Current copies of Keith County EOC's ALI database and MSAG in Microsoft Excel format
- Provide current copies of tax parcels for each county in the Keith County EOC region with associated property address for each parcel
- Confirm location of questionable addresses provided by GeoComm within a 30-day timeframe

Please provide the following information:

Vendor/Provider Name	Non-Recurring Costs	Monthly Costs
GeoComm	\$38,036	\$0
<b>Total</b>	\$38,036	\$0

Attach to Application:

Copy of bid(s) or invoice(s) received from vendor(s) for project.

Copy of all supporting documentation regarding costs paid

*Aurie Hood*  
Signature

2-27-19  
Date

Submit Applications and Direct Questions to:  
Tina Bartlett State 911 Administrative Coordinator  
Nebraska Public Service Commission  
(402)471-0208  
[tina.bartlett@nebraska.gov](mailto:tina.bartlett@nebraska.gov)  
[psc.psap@nebraska.gov](mailto:psc.psap@nebraska.gov)

**Nebraska Public Service Commission  
Request for Set Aside Usage**

**PSAP Information**

PSAP Name	<u>Keith County</u>
Contact Name	<u>Laurie Hood</u>
Address	<u>501 North Spruce Street</u>
City	<u>Ogallala</u>
Telephone Number	<u>308.284-2011</u>
Email Address	<u>lhood@keithcountyne.gov</u>

**Current Wireless Ratio** \_\_\_\_\_ **Current Set Aside Balance** \_\_\_\_\_

**Please describe project:**

Keith County is seeking the use of wireless set aside funds for the development of a site structure address point layer for Keith, Grant, Hooker, Arthur, McPherson, Logan and Perkins Counties to improve the accuracy of mapped emergency calls and also prepare us for future NG9-1-1. We are seeking the use of funds at 100%.