

ORIGINAL

8/3/2018

Technical Proposal for QA/QC GIS Services

State of Nebraska - RFP 5882 Z1

SOLICITATION NUMBER	RELEASE DATE
RFP 5882 Z1	July 20, 2018
OPENING DATE AND TIME	PROCUREMENT CONTACT
August 6, 2018 2:00 P.M. Central Time	Annette Walton / Jennifer Eloge

PREPARED BY R&S DIGITAL SERVICES INC

R&S Digital Services Inc.
A FBI Service GIS Mapping Company

Technical Proposal RFP 5882 Z1

Form A
Bidder Contact Sheet
Request for Proposal Number 5882 Z1

Form A should be completed and submitted with each response to this RFP. This is intended to provide the State with information on the bidder's name and address, and the specific person(s) who are responsible for preparation of the bidder's response.

Preparation of Response Contact Information	
Bidder Name:	R&S Digital Services Inc
Bidder Address:	1920 A 24 th St PO Box C Great Bend, KS 67530
Contact Person & Title:	Bruce Schneider, President
E-mail Address:	bschneid@rsdigital.com
Telephone Number (Office):	620-792-6171
Telephone Number (Cellular):	620-786-5626
Fax Number:	620-793-5290

Each bidder should also designate a specific contact person who will be responsible for responding to the State if any clarifications of the bidder's response should become necessary. This will also be the person who the State contacts to set up a presentation/demonstration, if required.

Communication with the State Contact Information	
Bidder Name:	R&S Digital Services Inc
Bidder Address:	1920 A 24 th St PO Drawer C Great Bend, KS 67530
Contact Person & Title:	Kimberly Myers, Project Manager
E-mail Address:	kmyers@rsdigital.com
Telephone Number (Office):	620-792-6171
Telephone Number (Cellular):	620-617-5915
Fax Number:	620-793-5290

REQUEST FOR PROPOSAL FOR CONTRACTUAL SERVICES FORM

By signing this Request for Proposal for Contractual Services form, the bidder guarantees compliance

BIDDER MUST COMPLETE THE FOLLOWING

with the procedures stated in this Request for Proposal, and agrees to the terms and conditions unless otherwise indicated in writing and certifies that bidder maintains a drug free work place.

Per Nebraska's Transparency in Government Procurement Act, Neb. Rev Stat § 73-603 DAS is required to collect statistical information regarding the number of contracts awarded to Nebraska Contractors. This information is for statistical purposes only and will not be considered for contract award purposes.

____ NEBRASKA CONTRACTOR AFFIDAVIT: Bidder hereby attests that bidder is a Nebraska Contractor. "Nebraska Contractor" shall mean any bidder who has maintained a bona fide place of business and at least one employee within this state for at least the six (6) months immediately preceding the posting date of this RFP.

____ I hereby certify that I am a Resident disabled veteran or business located in a designated enterprise zone in accordance with Neb. Rev. Stat. § 73-107 and wish to have preference, if applicable, considered in the award of this contract.

____ I hereby certify that I am a blind person licensed by the Commission for the Blind & Visually Impaired in accordance with Neb. Rev. Stat. §71-8611 and wish to have preference considered in the award of this contract.

FORM MUST BE SIGNED USING AN INDELIBLE METHOD (NOT ELECTRONICALLY)


FIRM:	R&S Digital Services Inc
COMPLETE ADDRESS:	1920 A 24 th St PO Box C Great Bend, KS 67530
TELEPHONE NUMBER:	620-786-5626
FAX NUMBER:	620-793-5290
DATE:	08/03/2018
SIGNATURE:	
TYPED NAME & TITLE OF SIGNER:	Bruce Schneider, President

TABLE OF CONTENTS

Form A Bidder Contact Sheet		i
REQUEST FOR PROPOSAL FOR CONTRACTUAL SERVICES FORM		ii
I. TERMS AND CONDITIONS		1
A. GENERAL		1
B. NOTIFICATION		2
C. GOVERNING LAW (Statutory)		2
D. BEGINNING OF WORK		2
E. CHANGE ORDERS		2
F. NOTICE OF POTENTIAL CONTRACTOR BREACH		3
G. BREACH		3
H. NON-WAIVER OF BREACH		4
I. SEVERABILITY		4
J. INDEMNIFICATION		4
K. ATTORNEY'S FEES		5
L. ASSIGNMENT, SALE, OR MERGER		5
M. CONTRACTING WITH OTHER NEBRASKA POLITICAL SUB-DIVISIONS		6
N. FORCE MAJEURE		6
O. CONFIDENTIALITY		6
P. EARLY TERMINATION		7
Q. CONTRACT CLOSEOUT		7
II. CONTRACTOR DUTIES		8
A. INDEPENDENT CONTRACTOR / OBLIGATIONS		8
B. EMPLOYEE WORK ELIGIBILITY STATUS		9
C. COMPLIANCE WITH CIVIL RIGHTS LAWS AND EQUAL OPPORTUNITY EMPLOYMENT / NONDISCRIMINATION (Statutory)		9
D. COOPERATION WITH OTHER CONTRACTORS		9
E. PERMITS, REGULATIONS, LAWS		10
F. OWNERSHIP OF INFORMATION AND DATA / DELIVERABLES		10
G. INSURANCE REQUIREMENTS		10
H. ANTITRUST		13
I. CONFLICT OF INTEREST		13
J. STATE PROPERTY		13
K. SITE RULES AND REGULATIONS		14
L. ADVERTISING		14
M. NEBRASKA TECHNOLOGY ACCESS STANDARDS (Statutory)		14
N. DISASTER RECOVERY/BACK UP PLAN		14
O. DRUG POLICY		15
III. PAYMENT		15
A. PROHIBITION AGAINST ADVANCE PAYMENT (Statutory)		15
B. TAXES (Statutory)		15
C. INVOICES		15
D. INSPECTION AND APPROVAL		15
E. PAYMENT		16
F. LATE PAYMENT (Statutory)		16
G. SUBJECT TO FUNDING / FUNDING OUT CLAUSE FOR LOSS OF APPROPRIATIONS		16
H. RIGHT TO AUDIT (First Paragraph is Statutory)		16
IV. PROJECT DESCRIPTION AND SCOPE OF WORK		18

A.	PROJECT OVERVIEW	18
B.	PROJECT ENVIRONMENT	18
C.	PROJECT REQUIREMENTS	18
D.	SCOPE OF WORK.....	19
E.	TECHNICAL REQUIREMENTS	19
F.	CONTRACTOR REQUIREMENTS	23
G.	DELIVERABLES	49
V.	CORPORATE OVERVIEW	501
VI.	COST PROPOSAL.....	62
VII.	TECHNICAL APPROACH	63
VIII.	APPENDIX	72
Figure 1:	Example File Geodatabase to accompany Discrepancy Report.....	31
Figure 2:	Discrepancy Report: Overview, Page 1	32
Figure 3:	Discrepancy Report: Overview, Page 2	33
Figure 4:	Discrepancy Report: Topology.....	34
Figure 5:	Discrepancy Report: Centerlines, Page 1	35
Figure 6:	Discrepancy Report: Centerlines, Page 2	36
Figure 7:	Discrepancy Report: Centerlines No MSAG	37
Figure 8:	Discrepancy Report: MSAG No Centerline	38
Figure 9:	Discrepancy Report: Centerline/MSAG Range Issues.....	39
Figure 10:	Discrepancy Report: TN to Centerline Comparison	40
Figure 11:	Discrepancy Report: Address Points	41
Figure 12:	Discrepancy Report: Address Point Geocode Errors.....	41
Figure 13:	Discrepancy Report: TNs to Address Points.....	42
Figure 14:	Discrepancy Report: PSAP	42
Figure 15:	Discrepancy Report: ESZ.....	42
Figure 16:	Discrepancy Report: EMS.....	43
Figure 17:	Discrepancy Report: Fire	43
Figure 18:	Discrepancy Report: Law	43
Figure 19:	Discrepancy Report: Political Boundary.....	44
Figure 20:	Compliance Report Page 1	45
Figure 21:	Compliance Report Page 2	46
Figure 22:	Compliance Report Page 3	47
Figure 23:	Monthly Progress Report	48
Figure 24:	Financial Statement	52
Figure 25:	R&S Digital Management Structure	56
Figure 26:	Certificate of Liability Insurance 2017-2018	72
Figure 27:	Certificate of Liability Insurance 2018-2019	73
Figure 28:	Cyber Security Insurance, Page 1	74
Figure 29:	Cyber Security Insurance, Page 2	75

ORIGINAL

I. TERMS AND CONDITIONS

Bidders should complete Sections II through VI as part of their proposal. Bidder is expected to read the Terms and Conditions and should initial either accept, reject, or reject and provide alternative language for each clause. The bidder should also provide an explanation of why the bidder rejected the clause or rejected the clause and provided alternate language. By signing the RFP, bidder is agreeing to be legally bound by all the accepted terms and conditions, and any proposed alternative terms and conditions submitted with the proposal. The State reserves the right to negotiate rejected or proposed alternative language. If the State and bidder fail to agree on the final Terms and Conditions, the State reserves the right to reject the proposal. The State of Nebraska is soliciting proposals in response to this RFP. The State of Nebraska reserves the right to reject proposals that attempt to substitute the bidder's commercial contracts and/or documents for this RFP.

The bidders should submit with their proposal any license, user agreement, service level agreement, or similar documents that the bidder wants incorporated in the contract. The State will not consider incorporation of any document not submitted with the bidder's proposal as the document will not have been included in the evaluation process. These documents shall be subject to negotiation and will be incorporated as addendums if agreed to by the Parties.

If a conflict or ambiguity arises after the Addendum to Contract Award have been negotiated and agreed to, the Addendum to Contract Award shall be interpreted as follows:

1. If only one Party has a particular clause then that clause shall control;
2. If both Parties have a similar clause, but the clauses do not conflict, the clauses shall be read together;
3. If both Parties have a similar clause, but the clauses conflict, the State's clause shall control.

A. GENERAL

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

The contract resulting from this RFP shall incorporate the following documents:


1. Request for Proposal and Addenda;
2. Amendments to the RFP;
3. Questions and Answers;
4. Contractor's proposal (RFP and properly submitted documents);
5. The executed Contract and Addendum One to Contract, if applicable ; and,
6. Amendments/Addendums to the Contract.

These documents constitute the entirety of the contract.

Unless otherwise specifically stated in a future contract amendment, in case of any conflict between the incorporated documents, the documents shall govern in the following order of preference with number one (1) receiving preference over all other documents and with each lower numbered document having preference over any higher numbered document: 1) Amendment to the executed Contract with the most recent dated amendment having the highest priority, 2) executed Contract and any attached Addenda, 3) Amendments to RFP and any Questions and Answers, 4) the original RFP document and any Addenda, and 5) the Contractor's submitted Proposal.

Any ambiguity or conflict in the contract discovered after its execution, not otherwise addressed herein, shall be resolved in accordance with the rules of contract interpretation as established in the State of Nebraska.

B. NOTIFICATION

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

Contractor and State shall identify the contract manager who shall serve as the point of contact for the executed contract.


Communications regarding the executed contract shall be in writing and shall be deemed to have been given if delivered personally or mailed, by U.S. Mail, postage prepaid, return receipt requested, to the parties at their respective addresses set forth below, or at such other addresses as may be specified in writing by either of the parties. All notices, requests, or communications shall be deemed effective upon personal delivery or three (3) calendar days following deposit in the mail.

C. GOVERNING LAW (Statutory)

Notwithstanding any other provision of this contract, or any amendment or addendum(s) entered into contemporaneously or at a later time, the parties understand and agree that, (1) the State of Nebraska is a sovereign state and its authority to contract is therefore subject to limitation by the State's Constitution, statutes, common law, and regulation; (2) this contract will be interpreted and enforced under the laws of the State of Nebraska; (3) any action to enforce the provisions of this agreement must be brought in the State of Nebraska per state law; (4) the person signing this contract on behalf of the State of Nebraska does not have the authority to waive the State's sovereign immunity, statutes, common law, or regulations; (5) the indemnity, limitation of liability, remedy, and other similar provisions of the final contract, if any, are entered into subject to the State's Constitution, statutes, common law, regulations, and sovereign immunity; and, (6) all terms and conditions of the final contract, including but not limited to the clauses concerning third party use, licenses, warranties, limitations of liability, governing law and venue, usage verification, indemnity, liability, remedy or other similar provisions of the final contract are entered into specifically subject to the State's Constitution, statutes, common law, regulations, and sovereign immunity.

The Parties must comply with all applicable local, state and federal laws, ordinances, rules, orders, and regulations.

D. BEGINNING OF WORK

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

The bidder shall not commence any billable work until a valid contract has been fully executed by the State and the successful Contractor. The Contractor will be notified in writing when work may begin.

E. CHANGE ORDERS

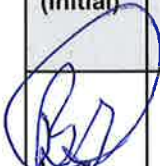
Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

The State and the Contractor, upon the written agreement, may make changes to the contract within the general scope of the RFP. Changes may involve specifications, the quantity of work, or such other items as the State may find necessary or desirable. Corrections of any deliverable, service, or work required pursuant to the contract shall not be deemed a change. The Contractor may not claim forfeiture of the contract by reasons of such changes.

The Contractor shall prepare a written description of the work required due to the change and an itemized cost sheet for the change. Changes in work and the amount of compensation to be paid to the Contractor shall be determined in accordance with applicable unit prices if any, a pro-rated value, or through negotiations. The State shall not incur a price increase for changes that should have been included in the Contractor's proposal, were foreseeable, or result from difficulties with or failure of the Contractor's proposal or performance.


No change shall be implemented by the Contractor until approved by the State, and the contract is amended to reflect the change and associated costs, if any. If there is a dispute regarding the cost, but both parties agree that immediate implementation is necessary, the change may be implemented, and cost negotiations may continue with both Parties retaining all remedies under the contract and law.

F. NOTICE OF POTENTIAL CONTRACTOR BREACH

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

If Contractor breaches the contract or anticipates breaching the contract, the Contractor shall immediately give written notice to the State. The notice shall explain the breach or potential breach, a proposed cure, and may include a request for a waiver of the breach if so desired. The State may, in its discretion, temporarily or permanently waive the breach. By granting a waiver, the State does not forfeit any rights or remedies to which the State is entitled by law or equity, or pursuant to the provisions of the contract. Failure to give immediate notice, however, may be grounds for denial of any request for a waiver of a breach.


G. BREACH

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

Either Party may terminate the contract, in whole or in part, if the other Party breaches its duty to perform its obligations under the contract in a timely and proper manner. Termination requires written notice of default and a thirty (30) calendar day (or longer at the non-breaching Party's discretion considering the gravity and nature of the default) cure period. Said notice shall be delivered by Certified Mail, Return Receipt Requested, or in person with proof of delivery. Allowing time to cure a failure or breach of contract does not waive the right to immediately terminate the contract for the same or different contract breach which may occur at a different time. In case of default of the Contractor, the State may contract the service from other sources and hold the Contractor responsible for any excess cost occasioned thereby.


The State's failure to make payment shall not be a breach, and the Contractor shall retain all available statutory remedies and protections.

H. NON-WAIVER OF BREACH

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			


The acceptance of late performance with or without objection or reservation by a Party shall not waive any rights of the Party nor constitute a waiver of the requirement of timely performance of any obligations remaining to be performed.

I. SEVERABILITY

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

If any term or condition of the contract is declared by a court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and conditions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the contract did not contain the provision held to be invalid or illegal.

J. INDEMNIFICATION

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

1. GENERAL
 The Contractor agrees to defend, indemnify, and hold harmless the State and its employees, volunteers, agents, and its elected and appointed officials ("the indemnified parties") from and against any and all third party claims, liens, demands, damages, liability, actions, causes of action, losses, judgments, costs, and expenses of every nature, including investigation costs and expenses, settlement costs, and attorney fees and expenses ("the claims"), sustained or asserted against the State for personal injury, death, or property loss or damage, arising out of, resulting from, or attributable to the willful misconduct, negligence, error, or omission of the Contractor, its employees, subcontractors, consultants, representatives, and agents, resulting from this contract, except to the extent such Contractor liability is attenuated by any action of the State which directly and proximately contributed to the claims.

2. INTELLECTUAL PROPERTY
 The Contractor agrees it will, at its sole cost and expense, defend, indemnify, and hold harmless the indemnified parties from and against any and all claims, to the extent such claims arise out of, result from, or are attributable to, the actual or alleged infringement or misappropriation of any patent, copyright, trade secret, trademark, or confidential information of any third party by the Contractor or its employees, subcontractors, consultants, representatives, and agents; provided, however, the State gives the Contractor prompt notice in writing of the claim. The Contractor may not settle any infringement claim that will affect the State's use of the Licensed Software without the State's prior written consent, which consent may be withheld for any reason.

If a judgment or settlement is obtained or reasonably anticipated against the State's use of any intellectual property for which the Contractor has indemnified the State, the Contractor shall, at the Contractor's sole cost and expense, promptly modify the item or items which were determined to be infringing, acquire a

license or licenses on the State's behalf to provide the necessary rights to the State to eliminate the infringement, or provide the State with a non-infringing substitute that provides the State the same functionality. At the State's election, the actual or anticipated judgment may be treated as a breach of warranty by the Contractor, and the State may receive the remedies provided under this RFP.

3. PERSONNEL


The Contractor shall, at its expense, indemnify and hold harmless the indemnified parties from and against any claim with respect to withholding taxes, worker's compensation, employee benefits, or any other claim, demand, liability, damage, or loss of any nature relating to any of the personnel, including subcontractors and their employees, provided by the Contractor.

4. SELF-INSURANCE

The State of Nebraska is self-insured for any loss and purchases excess insurance coverage pursuant to Neb. Rev. Stat. § 81-8,239.01 (Reissue 2008). If there is a presumed loss under the provisions of this agreement, Contractor may file a claim with the Office of Risk Management pursuant to Neb. Rev. Stat. §§ 81-8,829 – 81-8,306 for review by the State Claims Board. The State retains all rights and immunities under the State Miscellaneous (Section 81-8,294), Tort (Section 81-8,209), and Contract Claim Acts (Section 81-8,302), as outlined in Neb. Rev. Stat. § 81-8,209 et seq. and under any other provisions of law and accepts liability under this agreement to the extent provided by law.


5. The Parties acknowledge that Attorney General for the State of Nebraska is required by statute to represent the legal interests of the State, and that any provision of this indemnity clause is subject to the statutory authority of the Attorney General.

K. ATTORNEY'S FEES

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative RFP Response (Initial)	NOTES/COMMENTS:
			

In the event of any litigation, appeal, or other legal action to enforce any provision of the contract, the Parties agree to pay all expenses of such action, as permitted by law and if order by the court, including attorney's fees and costs, if the other Party prevails.

L. ASSIGNMENT, SALE, OR MERGER

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative RFP Response (Initial)	NOTES/COMMENTS:
			

Either Party may assign the contract upon mutual written agreement of the other Party. Such agreement shall not be unreasonably withheld.

The Contractor retains the right to enter into a sale, merger, acquisition, internal reorganization, or similar transaction involving Contractor's business. Contractor agrees to cooperate with the State in executing amendments to the contract to allow for the transaction. If a third party or entity is involved in the transaction, the Contractor will remain responsible for performance of the contract until such time as the person or entity involved in the transaction agrees in writing to be contractually bound by this contract and perform all obligations of the contract.

M. CONTRACTING WITH OTHER NEBRASKA POLITICAL SUB-DIVISIONS

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
BL			

The Contractor may, but shall not be required to, allow agencies, as defined in Neb. Rev. Stat. §81-145, to use this contract. The terms and conditions, including price, of the contract may not be amended. The State shall not be contractually obligated or liable for any contract entered into pursuant to this clause. A listing of Nebraska political subdivisions may be found at the website of the Nebraska Auditor of Public Accounts.

N. FORCE MAJEURE

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
BL			

Neither Party shall be liable for any costs or damages, or for default resulting from its inability to perform any of its obligations under the contract due to a natural or manmade event outside the control and not the fault of the affected Party ("Force Majeure Event"). The Party so affected shall immediately make a written request for relief to the other Party, and shall have the burden of proof to justify the request. The other Party may grant the relief requested; relief may not be unreasonably withheld. Labor disputes with the impacted Party's own employees will not be considered a Force Majeure Event.

O. CONFIDENTIALITY

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
BL			

All materials and information provided by the Parties or acquired by a Party on behalf of the other Party shall be regarded as confidential information. All materials and information provided or acquired shall be handled in accordance with federal and state law, and ethical standards. Should said confidentiality be breached by a Party, the Party shall notify the other Party immediately of said breach and take immediate corrective action.

It is incumbent upon the Parties to inform their officers and employees of the penalties for improper disclosure imposed by the Privacy Act of 1974, 5 U.S.C. 552a. Specifically, 5 U.S.C. 552a (i)(1), which is made applicable by 5 U.S.C. 552a (m)(1), provides that any officer or employee, who by virtue of his/her employment or official position has possession of or access to agency records which contain individually identifiable information, the disclosure of which is prohibited by the Privacy Act or regulations established thereunder, and who knowing that disclosure of the specific material is prohibited, willfully discloses the material in any manner to any person or agency not entitled to receive it, shall be guilty of a misdemeanor and fined not more than \$5,000.

P. EARLY TERMINATION

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
BS			

The contract may be terminated as follows:

1. The State and the Contractor, by mutual written agreement, may terminate the contract at any time.
2. The State, in its sole discretion, may terminate the contract for any reason upon thirty (30) calendar day's written notice to the Contractor. Such termination shall not relieve the Contractor of warranty or other service obligations incurred under the terms of the contract. In the event of termination the Contractor shall be entitled to payment, determined on a pro rata basis, for products or services satisfactorily performed or provided.
3. The State may terminate the contract immediately for the following reasons:
 - a. if directed to do so by statute;
 - b. Contractor has made an assignment for the benefit of creditors, has admitted in writing its inability to pay debts as they mature, or has ceased operating in the normal course of business;
 - c. a trustee or receiver of the Contractor or of any substantial part of the Contractor's assets has been appointed by a court;
 - d. fraud, misappropriation, embezzlement, malfeasance, misfeasance, or illegal conduct pertaining to performance under the contract by its Contractor, its employees, officers, directors, or shareholders;
 - e. an involuntary proceeding has been commenced by any Party against the Contractor under any one of the chapters of Title 11 of the United States Code and (i) the proceeding has been pending for at least sixty (60) calendar days; or (ii) the Contractor has consented, either expressly or by operation of law, to the entry of an order for relief; or (iii) the Contractor has been decreed or adjudged a debtor;
 - f. a voluntary petition has been filed by the Contractor under any of the chapters of Title 11 of the United States Code;
 - g. Contractor intentionally discloses confidential information;
 - h. Contractor has or announces it will discontinue support of the deliverable; and,
 - i. In the event funding is no longer available.

Q. CONTRACT CLOSEOUT

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
BS			

Upon contract closeout for any reason the Contractor shall within 30 days, unless stated otherwise herein:

1. Transfer all completed or partially completed deliverables to the State;
2. Transfer ownership and title to all completed or partially completed deliverables to the State;
3. Return to the State all information and data, unless the Contractor is permitted to keep the information or data by contract or rule of law. Contractor may retain one copy of any information or data as required to comply with applicable work product documentation standards or as are automatically retained in the course of Contractor's routine back up procedures;
4. Cooperate with any successor Contractor, person or entity in the assumption of any or all of the obligations of this contract;
5. Cooperate with any successor Contractor, person or entity with the transfer of information or data related to this contract;
6. Return or vacate any state owned real or personal property; and,
7. Return all data in a mutually acceptable format and manner.

Nothing in this Section should be construed to require the Contractor to surrender intellectual property, real or personal property, or information or data owned by the Contractor for which the State has no legal claim.

II. CONTRACTOR DUTIES

A. INDEPENDENT CONTRACTOR / OBLIGATIONS

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
BS			

It is agreed that the Contractor is an independent contractor and that nothing contained herein is intended or should be construed as creating or establishing a relationship of employment, agency, or a partnership.

The Contractor is solely responsible for fulfilling the contract. The Contractor or the Contractor's representative shall be the sole point of contact regarding all contractual matters.

The Contractor shall secure, at its own expense, all personnel required to perform the services under the contract. The personnel the Contractor uses to fulfill the contract shall have no contractual or other legal relationship with the State; they shall not be considered employees of the State and shall not be entitled to any compensation, rights or benefits from the State, including but not limited to, tenure rights, medical and hospital care, sick and vacation leave, severance pay, or retirement benefits.

By-name personnel commitments made in the Contractor's proposal shall not be changed without the prior written approval of the State. Replacement of these personnel, if approved by the State, shall be with personnel of equal or greater ability and qualifications.

All personnel assigned by the Contractor to the contract shall be employees of the Contractor or a subcontractor, and shall be fully qualified to perform the work required herein. Personnel employed by the Contractor or a subcontractor to fulfill the terms of the contract shall remain under the sole direction and control of the Contractor or the subcontractor respectively.

With respect to its employees, the Contractor agrees to be solely responsible for the following:

1. Any and all pay, benefits, and employment taxes and/or other payroll withholding;
2. Any and all vehicles used by the Contractor's employees, including all insurance required by state law;
3. Damages incurred by Contractor's employees within the scope of their duties under the contract;
4. Maintaining Workers' Compensation and health insurance that complies with state and federal law and submitting any reports on such insurance to the extent required by governing law; and
5. Determining the hours to be worked and the duties to be performed by the Contractor's employees.
6. All claims on behalf of any person arising out of employment or alleged employment (including without limit claims of discrimination alleged against the Contractor, its officers, agents, or subcontractors or subcontractor's employees)


If the Contractor intends to utilize any subcontractor, the subcontractor's level of effort, tasks, and time allocation should be clearly defined in the bidder's proposal. The Contractor shall agree that it will not utilize any subcontractors not specifically included in its proposal in the performance of the contract without the prior written authorization of the State.

The State reserves the right to require the Contractor to reassign or remove from the project any Contractor or subcontractor employee.

Contractor shall insure that the terms and conditions contained in any contract with a subcontractor does not conflict with the terms and conditions of this contract.

The Contractor shall include a similar provision, for the protection of the State, in the contract with any subcontractor engaged to perform work on this contract.

B. EMPLOYEE WORK ELIGIBILITY STATUS

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

The Contractor is required and hereby agrees to use a federal immigration verification system to determine the work eligibility status of employees physically performing services within the State of Nebraska. A federal immigration verification system means the electronic verification of the work authorization program authorized by the Illegal Immigration Reform and Immigrant Responsibility Act of 1996, 8 U.S.C. 1324a, known as the E-Verify Program, or an equivalent federal program designated by the United States Department of Homeland Security or other federal agency authorized to verify the work eligibility status of an employee.


If the Contractor is an individual or sole proprietorship, the following applies:

1. The Contractor must complete the United States Citizenship Attestation Form, available on the Department of Administrative Services website at <http://das.nebraska.gov/materiel/purchasing.html>
The completed United States Attestation Form should be submitted with the RFP response.
2. If the Contractor indicates on such attestation form that he or she is a qualified alien, the Contractor agrees to provide the US Citizenship and Immigration Services documentation required to verify the Contractor's lawful presence in the United States using the Systematic Alien Verification for Entitlements (SAVE) Program.
3. The Contractor understands and agrees that lawful presence in the United States is required and the Contractor may be disqualified or the contract terminated if such lawful presence cannot be verified as required by Neb. Rev. Stat. §4-108.

C. COMPLIANCE WITH CIVIL RIGHTS LAWS AND EQUAL OPPORTUNITY EMPLOYMENT / NONDISCRIMINATION (Statutory)

The Contractor shall comply with all applicable local, state, and federal statutes and regulations regarding civil rights laws and equal opportunity employment. The Nebraska Fair Employment Practice Act prohibits Contractors of the State of Nebraska, and their subcontractors, from discriminating against any employee or applicant for employment, with respect to hire, tenure, terms, conditions, compensation, or privileges of employment because of race, color, religion, sex, disability, marital status, or national origin (Neb. Rev. Stat. §48-1101 to 48-1125). The Contractor guarantees compliance with the Nebraska Fair Employment Practice Act, and breach of this provision shall be regarded as a material breach of contract. The Contractor shall insert a similar provision in all subcontracts for services to be covered by any contract resulting from this RFP.

D. COOPERATION WITH OTHER CONTRACTORS

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

Contractor may be required to work with or in close proximity to other contractors or individuals that may be working on same or different projects. The Contractor shall agree to cooperate with such other contractors or individuals, and shall not commit or permit any act which may interfere with the performance of work by any other contractor or individual. Contractor is not required to compromise Contractor's intellectual property or proprietary information unless expressly required to do so by this contract.

E. PERMITS, REGULATIONS, LAWS

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
BS			

The contract price shall include the cost of all royalties, licenses, permits, and approvals, whether arising from patents, trademarks, copyrights or otherwise, that are in any way involved in the contract. The Contractor shall obtain and pay for all royalties, licenses, and permits, and approvals necessary for the execution of the contract. The Contractor must guarantee that it has the full legal right to the materials, supplies, equipment, software, and other items used to execute this contract.

F. OWNERSHIP OF INFORMATION AND DATA / DELIVERABLES

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
BS			

The State shall have the unlimited right to publish, duplicate, use, and disclose all information and data developed or obtained by the Contractor on behalf of the State pursuant to this contract.

The State shall own and hold exclusive title to any deliverable developed as a result of this contract. Contractor shall have no ownership interest or title, and shall not patent, license, or copyright, duplicate, transfer, sell, or exchange, the design, specifications, concept, or deliverable.

G. INSURANCE REQUIREMENTS

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
BS			See appendix for Liability & Cyber Security Insurance

The Contractor shall throughout the term of the contract maintain insurance as specified herein and provide the State a current Certificate of Insurance/Acord Form (COI) verifying the coverage. The Contractor shall not commence work on the contract until the insurance is in place. If Contractor subcontracts any portion of the Contract the Contractor must, throughout the term of the contract, either:

1. Provide equivalent insurance for each subcontractor and provide a COI verifying the coverage for the subcontractor;
2. Require each subcontractor to have equivalent insurance and provide written notice to the State that the Contractor has verified that each subcontractor has the required coverage; or,
3. Provide the State with copies of each subcontractor's Certificate of Insurance evidencing the required coverage.

The Contractor shall not allow any subcontractor to commence work until the subcontractor has equivalent insurance. The failure of the State to require a COI, or the failure of the Contractor to provide a COI or require subcontractor insurance shall not limit, relieve, or decrease the liability of the Contractor hereunder.

In the event that any policy written on a claims-made basis terminates or is canceled during the term of the contract or within (two (2) years of termination or expiration of the contract, the Contractor shall obtain an extended discovery or reporting period, or a new insurance policy, providing coverage required by this contract for the term of the contract and two (2) years following termination or expiration of the contract.

If by the terms of any insurance a mandatory deductible is required, or if the Contractor elects to increase the mandatory deductible amount, the Contractor shall be responsible for payment of the amount of the deductible in the event of a paid claim.

Notwithstanding any other clause in this contract, the State may recover up to the liability limits of the insurance policies required herein.

1. WORKERS' COMPENSATION INSURANCE

The Contractor shall take out and maintain during the life of this contract the statutory Workers' Compensation and Employer's Liability Insurance for all of the contractors' employees to be engaged in work on the project under this contract and, in case any such work is sublet, the Contractor shall require the subcontractor similarly to provide Worker's Compensation and Employer's Liability Insurance for all of the subcontractor's employees to be engaged in such work. This policy shall be written to meet the statutory requirements for the state in which the work is to be performed, including Occupational Disease. **The policy shall include a waiver of subrogation in favor of the State. The COI shall contain the mandatory COI subrogation waiver language found hereinafter.** The amounts of such insurance shall not be less than the limits stated hereinafter. For employees working in the State of Nebraska, the policy must be written by an entity authorized by the State of Nebraska Department of Insurance to write Workers' Compensation and Employer's Liability Insurance for Nebraska employees.

2. COMMERCIAL GENERAL LIABILITY INSURANCE AND COMMERCIAL AUTOMOBILE LIABILITY INSURANCE

The Contractor shall take out and maintain during the life of this contract such Commercial General Liability Insurance and Commercial Automobile Liability Insurance as shall protect Contractor and any subcontractor performing work covered by this contract from claims for damages for bodily injury, including death, as well as from claims for property damage, which may arise from operations under this contract, whether such operation be by the Contractor or by any subcontractor or by anyone directly or indirectly employed by either of them, and the amounts of such insurance shall not be less than limits stated hereinafter.

The Commercial General Liability Insurance shall be written on an **occurrence basis**, and provide Premises/Operations, Products/Completed Operations, Independent Contractors, Personal Injury, and Contractual Liability coverage. **The policy shall include the State, and others as required by the contract documents, as Additional Insured(s). This policy shall be primary, and any insurance or self-insurance carried by the State shall be considered secondary and non-contributory. The COI shall contain the mandatory COI liability waiver language found hereinafter.** The Commercial Automobile Liability Insurance shall be written to cover all Owned, Non-owned, and Hired vehicles.

REQUIRED INSURANCE COVERAGE	
COMMERCIAL GENERAL LIABILITY	
General Aggregate	\$2,000,000
Products/Completed Operations Aggregate	\$2,000,000
Personal/Advertising Injury	\$1,000,000 per occurrence
Bodily Injury/Property Damage	\$1,000,000 per occurrence
Medical Payments	\$10,000 any one person
Damage to Rented Premises (Fire)	\$300,000 each occurrence
Contractual	Included
Independent Contractors	Included
<i>If higher limits are required, the Umbrella/Excess Liability limits are allowed to satisfy the higher limit.</i>	
WORKER'S COMPENSATION	
Employers Liability Limits	\$500K/\$500K/\$500K
Statutory Limits- All States	Statutory - State of Nebraska
Voluntary Compensation	Statutory
COMMERCIAL AUTOMOBILE LIABILITY	
Bodily Injury/Property Damage	\$1,000,000 combined single limit
Include All Owned, Hired & Non-Owned Automobile liability	Included
Motor Carrier Act Endorsement	Where Applicable
UMBRELLA/EXCESS LIABILITY	
Over Primary Insurance	\$5,000,000 per occurrence
PROFESSIONAL LIABILITY	
All Other Professional Liability (Errors & Omissions)	\$1,000,000 Per Claim / Aggregate
COMMERCIAL CRIME	
Crime/Employee Dishonesty Including 3rd Party Fidelity	\$1,000,000
CYBER LIABILITY	
Breach of Privacy, Security Breach, Denial of Service, Remediation, Fines and Penalties	\$10,000,000
MANDATORY COI SUBROGATION WAIVER LANGUAGE	
"Workers' Compensation policy shall include a waiver of subrogation in favor of the State of Nebraska."	
MANDATORY COI LIABILITY WAIVER LANGUAGE	
"Commercial General Liability & Commercial Automobile Liability policies shall name the State of Nebraska as an Additional Insured and the policies shall be primary and any insurance or self-insurance carried by the State shall be considered secondary and non-contributory as additionally insured."	

If the mandatory COI subrogation waiver language or mandatory COI liability waiver language on the COI states that the waiver is subject to, condition upon, or otherwise limit by the insurance policy, a copy of the relevant sections of the policy must be submitted with the COI so the State can review the limitations imposed by the insurance policy.

3. EVIDENCE OF COVERAGE

The Contractor shall furnish the Contract Manager, with a certificate of insurance coverage complying with the above requirements prior to beginning work at:

911 Director
 Nebraska Public Service Commission
 300 The Atrium, 1200 N Street
 P.O. Box 94927
 Lincoln, NE 68509

These certificates or the cover sheet shall reference the RFP number, and the certificates shall include the name of the company, policy numbers, effective dates, dates of expiration, and amounts and types of coverage afforded. If the State is damaged by the failure of the Contractor to maintain such insurance, then the Contractor shall be responsible for all reasonable costs properly attributable thereto.

Reasonable notice of cancellation of any required insurance policy must be submitted to the contract manager as listed above when issued and a new coverage binder shall be submitted immediately to ensure no break in coverage.

4. DEVIATIONS


The insurance requirements are subject to limited negotiation. Negotiation typically includes, but is not necessarily limited to, the correct type of coverage, necessity for Workers' Compensation, and the type of automobile coverage carried by the Contractor.

H. ANTITRUST

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

The Contractor hereby assigns to the State any and all claims for overcharges as to goods and/or services provided in connection with this contract resulting from antitrust violations which arise under antitrust laws of the United States and the antitrust laws of the State.

I. CONFLICT OF INTEREST

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			


By submitting a proposal, bidder certifies that there does not now exist a relationship between the bidder and any person or entity which is or gives the appearance of a conflict of interest related to this RFP or project.

The bidder certifies that it shall not take any action or acquire any interest, either directly or indirectly, which will conflict in any manner or degree with the performance of its services hereunder or which creates an actual or an appearance of conflict of interest.

The bidder certifies that it will not knowingly employ any individual known by bidder to have a conflict of interest.

The Parties shall not knowingly, for a period of two years after execution of the contract, recruit or employ any employee or agent of the other Party who has worked on the RFP or project, or who had any influence on decisions affecting the RFP or project.

J. STATE PROPERTY

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

The Contractor shall be responsible for the proper care and custody of any State-owned property which is furnished for the Contractor's use during the performance of the contract. The Contractor shall reimburse the State for any loss or damage of such property; normal wear and tear is expected.

K. SITE RULES AND REGULATIONS

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
BS			

The Contractor shall use its best efforts to ensure that its employees, agents, and subcontractors comply with site rules and regulations while on State premises. If the Contractor must perform on-site work outside of the daily operational hours set forth by the State, it must make arrangements with the State to ensure access to the facility and the equipment has been arranged. No additional payment will be made by the State on the basis of lack of access, unless the State fails to provide access as agreed to in writing between the State and the Contractor.

L. ADVERTISING

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
BS			

The Contractor agrees not to refer to the contract award in advertising in such a manner as to state or imply that the company or its services are endorsed or preferred by the State. Any publicity releases pertaining to the project shall not be issued without prior written approval from the State.

M. NEBRASKA TECHNOLOGY ACCESS STANDARDS (Statutory)


Contractor shall review the Nebraska Technology Access Standards, found at <http://nitc.nebraska.gov/standards/2-201.html> and ensure that products and/or services provided under the contract are in compliance or will comply with the applicable standards to the greatest degree possible. In the event such standards change during the Contractor's performance, the State may create an amendment to the contract to request the contract comply with the changed standard at a cost mutually acceptable to the parties.

N. DISASTER RECOVERY/BACK UP PLAN

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
BS			

The Contractor shall have a disaster recovery and back-up plan, of which a copy should be provided upon request to the State, which includes, but is not limited to equipment, personnel, facilities, and transportation, in order to continue services as specified under the specifications in the contract in the event of a disaster.

O. **DRUG POLICY**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

Contractor certifies it maintains a drug free work place environment to ensure worker safety and workplace integrity. Contractor agrees to provide a copy of its drug free workplace policy at any time upon request by the State.

III. **PAYMENT**


A. **PROHIBITION AGAINST ADVANCE PAYMENT (Statutory)**

Payments shall not be made until contractual deliverable(s) are received and accepted by the State.

B. **TAXES (Statutory)**


The State is not required to pay taxes and assumes no such liability as a result of this solicitation. Any property tax payable on the Contractor's equipment which may be installed in a state-owned facility is the responsibility of the Contractor.

C. **INVOICES**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			


Invoices for payments must be submitted by the Contractor to the Commission with sufficient detail to support payment at the following address: Nebraska Public Service Commission, Attention: Business Manager, P.O. Box 94927, Lincoln, NE 68509. The terms and conditions included in the Contractor's invoice shall be deemed to be solely for the convenience of the parties. No terms or conditions of any such invoice shall be binding upon the State, and no action by the State, including without limitation the payment of any such invoice in whole or in part, shall be construed as binding or estopping the State with respect to any such term or condition, unless the invoice term or condition has been previously agreed to by the State as an amendment to the contract.

D. **INSPECTION AND APPROVAL**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

Final inspection and approval of all work required under the contract shall be performed by the designated State officials.

E. PAYMENT


Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

State will render payment to Contractor when the terms and conditions of the contract and specifications have been satisfactorily completed on the part of the Contractor as solely determined by the State. (Neb. Rev. Stat. Section 73-506(1)) Payment will be made by the responsible agency in compliance with the State of Nebraska Prompt Payment Act (See Neb. Rev. Stat. §81-2401 through 81-2408). The State may require the Contractor to accept payment by electronic means such as ACH deposit. In no event shall the State be responsible or liable to pay for any services provided by the Contractor prior to the Effective Date of the contract, and the Contractor hereby waives any claim or cause of action for any such services.

F. LATE PAYMENT (Statutory)


The Contractor may charge the responsible agency interest for late payment in compliance with the State of Nebraska Prompt Payment Act (See Neb. Rev. Stat. §81-2401 through 81-2408).

G. SUBJECT TO FUNDING / FUNDING OUT CLAUSE FOR LOSS OF APPROPRIATIONS

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

The State's obligation to pay amounts due on the Contract for a fiscal years following the current fiscal year is contingent upon legislative appropriation of funds. Should said funds not be appropriated, the State may terminate the contract with respect to those payments for the fiscal year(s) for which such funds are not appropriated. The State will give the Contractor written notice thirty (30) calendar days prior to the effective date of termination. All obligations of the State to make payments after the termination date will cease. The Contractor shall be entitled to receive just and equitable compensation for any authorized work which has been satisfactorily completed as of the termination date. In no event shall the Contractor be paid for a loss of anticipated profit.

H. RIGHT TO AUDIT (First Paragraph is Statutory)

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative within RFP Response (Initial)	NOTES/COMMENTS:
			

The State shall have the right to audit the Contractor's performance of this contract upon a 30 days' written notice. Contractor shall utilize generally accepted accounting principles, and shall maintain the accounting records, and other records and information relevant to the contract (Information) to enable the State to audit the contract. The State may audit and the Contractor shall maintain, the Information during the term of the contract and for a period of five (5) years after the completion of this contract or until all issues or litigation are resolved, whichever is later. The Contractor shall make the Information available to the State at Contractor's place of business or a location acceptable to both Parties during normal business hours. If this is not practical or the Contractor so elects, the Contractor may provide electronic or paper copies of the Information. The State reserves the right to examine, make copies of, and take notes on any Information relevant to this contract, regardless of the form or the Information, how it is stored, or who possesses the Information. Under no circumstance will the Contractor be required to create or maintain documents not kept in the ordinary course of Contractor's business operations, nor will Contractor be required to

disclose any information, including but not limited to product cost data, which is confidential or proprietary to Contractor.

The Parties shall pay their own costs of the audit unless the audit finds a previously undisclosed overpayment by the State. If a previously undisclosed overpayment exceeds one percent (.1%) of the total contract billings, or if fraud, material misrepresentations, or non-performance is discovered on the part of the Contractor, the Contractor shall reimburse the State for the total costs of the audit. Overpayments and audit costs owed to the State shall be paid within ninety days of written notice of the claim. The Contractor agrees to correct any material weaknesses or condition found as a result of the audit.

IV. PROJECT DESCRIPTION AND SCOPE OF WORK

The bidder should provide the following information in response to this RFP

A. PROJECT OVERVIEW

The Commission is seeking a Contractor to provide Quality Assurance/Quality Control (QA/QC) services with respect to Geographic Information Systems (GIS) datasets in order to verify that GIS data used by Public Safety Answering Points (PSAPs) in Nebraska complies with the National Emergency Number Association (NENA) NG9-1-1 data model.

As more fully described below, the Contractor's role will be to analyze GIS data uploaded by local agencies in order to confirm compliance with Nebraska Information Technology Council (NITC) and NENA standards for use in NG9-1-1 applications.

B. PROJECT ENVIRONMENT

The Commission is the statewide implementation and coordinating authority for 911 service in the State of Nebraska, with the statutory responsibility to plan, implement, coordinate, manage, maintain, and provide funding assistance for a cost-efficient 911 service system pursuant to the Nebraska 911 Service System Act. Local governing bodies are responsible for the dispatch and provision of emergency services within their respective jurisdictions. However, the Commission provides funding and other assistance to PSAPs across the state.

Some Nebraska PSAPs serve a single city or county, while others serve multiple counties or parts of counties. Some PSAPs are governed by local boards, while others are operated by local law enforcement. Some PSAPs operate independently, while others are organized into cooperative regions to share resources and provide mutual back-up. Currently, the local governing bodies that operate the PSAPs throughout the State are responsible to maintain GIS data for each PSAP at the local level. Although a few Nebraska PSAPs use in-house personnel to maintain GIS data, most PSAPs contract for 911-related GIS services from approved "vendors of choice" selected through an earlier RFP process. Nebraska PSAPs are responsible for uploading copies of their most recent GIS datasets on a monthly basis to an online GIS repository maintained by the Commission. Presently, there is no single authoritative statewide 9-1-1 GIS dataset.

To prepare for next generation 911, the Commission is undertaking a quality assurance/quality control project to confirm that the GIS data used by Nebraska PSAPs comply with NITC and NENA standards and is appropriate to support the spatial routing of 911 calls in the NG9-1-1 environment.

C. PROJECT REQUIREMENTS

The Contractor will be required to maintain a secure web portal through which Nebraska PSAPs or their representatives will upload GIS data to be analyzed by the Contractor. Access to the portal must be limited to authorized users via login and password or other similar secure authentication. The portal must require each person authorized to upload GIS datasets to identify the applicable jurisdiction, geographic area and type of dataset before a file will be accepted for uploading.

The portal must be capable of accepting GIS data in any ESRI format. The portal should automatically reject GIS datasets that are incomplete or defective and immediately notify the local agency if an attempted upload was unsuccessful. The portal should return, prior to QA/QC review, GIS datasets having any of the following characteristics, and provide notice to the uploading party to correct any such errors:

1. No data in the file
2. Incompatible dataset due to improper or missing field names
3. Lack of defining information, e.g., county name, dataset
4. Improper file format
5. MSAG not included with Street Centerline file
6. Missing or improperly formatted FDGC metadata
7. Incorrect data naming convention

Datasets that do not have any of the above-referenced errors should automatically be accepted for QA/QC review by the Contractor's secure portal.

D. SCOPE OF WORK

The Contractor will analyze each GIS dataset uploaded to the portal to identify any errors and discrepancies based on NITC and NENA standards. After review, the Contractor will return datasets that are shown to have errors and/or discrepancies to the uploading agency, along with a discrepancy report listing the items that need to be corrected in order to achieve compliance with the standards. Each such discrepancy report must be accompanied by a shapefile of areas where the topology is incorrect. The local PSAP or its representatives will be responsible to correct all the items listed in the discrepancy report. After correction, the local PSAP or its representative will be expected to resubmit the revised GIS dataset via the Contractor's dedicated portal for further QA/QC review.

GIS data that is confirmed by the Contractor to meet all required standards will be accepted for provisioning to the NG9-1-1 environment and uploaded by the Contractor to the Commission's GIS repository. The Contractor will also notify the Commission's GIS Specialist and the PSAP responsible for uploading the file that the dataset meets all required standards and is ready for use.

E. TECHNICAL REQUIREMENTS

The specific NITC and NENA standards that apply to this project are the following:

1. NITC Standards & Guidelines
 - a. 3-201. Geospatial Metadata Standard
 - b. 3-202. Land Record Information and Mapping Standard
 - c. 3-205. Street Centerline Standard
 - d. 3-206. Address Standard
2. NENA Standards
 - a. NENA 02-014
 - b. NENA 71-501
 - c. NENA REQ-002.1-2016
 - d. NENA STA-005.1.1-2017
 - e. NENA STA-006 NG9-1-1 Data Model

In the event of any conflict between NITC standards and NENA standards, NITC standards shall control.

3. The GIS datasets to be reviewed by Contractor after being uploaded by to the secure portal will consist of the following GIS layers:
 - a. Street Centerlines (with accompanying MSAG);
 - b. Street/Structure address points (with accompanying ALI);
 - c. PSAP boundaries;
 - d. Emergency service zones (police, fire, EMS); and,
 - e. Political boundaries (used to define the provisioning of GIS data).
4. The Contractor shall review Street Centerline Layer data to identify, at a minimum, the following items:
 - a. Comparison of MSAG vs. Street Centerline segments to minimum 98% match;
 - b. Comparison of ALI to Street Centerline to minimum 98% match with road name;
 - c. Overlapping address ranges between jurisdictions;
 - i. Region free of overlaps: 98% unique ranges;
 - d. Misalignments;
 - i. Overlaps
 - ii. Gaps
 - iii. Overhangs
 - iv. Duplicate features
 - v. Incorrectly named road segments
 - e. Road segments running the wrong direction;
 - f. Road segments not broken at intersections and/or ESZ boundaries;
 - g. Road name consistency;
 - h. Misaligned road segments at county and jurisdictional boundaries;
 - i. Required metadata; and,
 - j. General compliance with applicable NITC and NENA standards.

5. The Contractor shall review jurisdictional boundary Polygon Layers to identify, at a minimum, the following items:

- a. Redundancy, misalignment and others errors in topology;
 - i. Overlaps
 - ii. Gaps
 - b. Duplication of features between PSAPs;
 - i. ESZ numbers match
 - ii. ESZ numbers do not match
 - c. County boundaries alignment to neighboring counties;
 - d. Correct boundaries (police, fire, EMS) included in the ESZ boundary;
 - e. Fields within each layer conform to NITC and NENA standards for names, content, and format;
 - f. Required metadata; and,
 - g. General compliance with applicable NITC and NENA standards.
6. The Contractor shall review Address Point Layers to identify, at a minimum, the following items:
- a. Placement of Address Points on Street Centerline address ranges;
 - b. Comparison of ALI to Address Points to minimum 98 percent match to full address;
 - c. Discrepancies between the telephone number (TN) list and site/structure address point layer;
 - d. Multi-address structure address formats;
 - e. Fields within each layer conform to NITC and NENA standards for names, content, and format;
 - f. Required metadata; and,
 - g. General compliance with applicable NITC and NENA standards.

In addition to the foregoing, the Contractor will also review each uploaded dataset to determine compatibility with GIS data provided by adjoining counties. Adjoining county data will be reviewed to identify any overlaps and gaps, Street Centerline alignments, stacked roads and inconsistent road names. Resolution of inconsistencies in adjoining counties' datasets will be the responsibility of the counties involved.

Please describe how your company will meet all of the above requirements.

Bidder Response:

Project Overview

R&S Digital has been providing E-911 and NG9-1-1 services for the past 16 years with extensive experience working with PSAPs, County Governments as well as State Government. Through our many years of work with 911 data, we have become very familiar with NENA standards. We have been proactive from the start and have created our own internal quality checks based on national and state standards.

Our experience working with 911 data has provided us with a solid understanding of how the GIS-Geoprocessing environment needs to be structured in order to provide compliant data sets that support spatial call routing. We possess all the needed infrastructure to provide QA/QC services in a timely and efficient manner.

We have taken the time to process 3 counties in Nebraska with the data that was available at the time. Findings and results can be provided to you as an example of the quality of work we do, as well as provide you with an overview of some of the common errors expected across the state. We used a subset of the results from one county as an example for the proposed format of the required reports.

Project Environment and Requirements

R&S has developed a secure portal specifically for Nebraska's NG9-1-1 project. The portal will utilize encrypted passwords that are tiered to provide users exclusive access to their data components and reports.

The portal will be able to accept zipped data in any ESRI format, although R&S does recommend that the data be submitted in a file geodatabase. Submittals that do not meet the standard schema criteria

or have missing datasets will be rejected and a report generated for the user that details what aspects of the data are insufficient. We plan on adding an additional server to be used exclusively for this project.

R&S will provide all the necessary services for data acquisition through our Portal. We do know from processing the three counties that uniformity between data sets and NITC standards as well NENA is not present. If the Commission determines it beneficial, R&S can assist in creation of a NG9-1-1 template file geodatabase that PSAP's and maintenance vendors can use to ensure compliance with NITC & NENA schema standards including domains, standardized attribute names and required metadata that can be prepopulated.

Using our proprietary scripts, we will process the data sets uploaded to the Portal and return reports detailing the areas of issues pertaining to the spatial relationship (TOPO) and uniformity to the NITC schema standards for Address Points and Centerlines. Given there is currently not a schema standard for polygons within the state of Nebraska, R&S proposes a hybrid schema using all the required fields in the NENA Data Model Standards (NENA-STA-006.1-201X) with the exception of the Service URI, Service URN & AgencyvCard URI fields. Given that guidelines are not firmly established for those fields and the structure of the State of Nebraska's ESInet and subsequent ECRF & LVF have not been established, R&S believes populating those fields would create an unnecessary burden for PSAPs and maintenance vendors at this time.

The time frame for completion of this project is dependent on the response of the PSAPs or maintenance vendors in submitting all the required data in a timely manner at the start of the project as well subsequent resubmissions with corrections. R&S will keep an open dialog with the Commission's GIS Specialist on the progress of submissions as required in the RFP and be proactive in sending periodic reminders to PSAP and maintenance vendors to upload GIS data. R&S is aware that only approximately 1/3rd of the counties currently have address points in various stages of development. R&S proposes that an initial quality check can be performed on the data without the address points present. We believe this can help keep the project moving forward and allow PSAPs and vendors to review and fix errors in the initial data in conjunction with acquiring address point data.

Scope of Work and Technical Requirements

We are very familiar with all the NENA standards referenced in E2 and have reviewed all the NITC standards listed in E1. If any anomalies present themselves during the project we will consult with the Commission's GIS Specialist to resolve. We do anticipate the occurrence of such anomalies as we did in Kansas, but they should be minor in nature and resolved quickly.

R&S Digital has the tools and technology required to perform the QA/QC process and verify that the submitted data meets the threshold requirements set by NENA and NITC. R&S has identified a process, as indicated in the QA/QC Methodology section, to perform checks on the data, create reports, keep track of data submissions and the results, and maintain communication with the PSC, PSAPs and maintenance vendors.

The following is a list of the GIS datasets that we will review along with the types of checks that will be used to identify errors and discrepancies:

1. Centerlines
 - a. MSAG and TN/Ali comparison to verify a minimum 98% Match:
 - i. Identify centerlines that do not have matching MSAG records
 - ii. Identify MSAG records that do not have matching centerlines
 - iii. Identify matching MSAG and Centerlines with range differences
 - iv. Create a lists of TN addresses that do not coincide with the centerlines
 - b. Topological checks:
 - i. Centerlines that intersect or overlap themselves
 - ii. Centerlines that are not split where two or more cross paths
 - iii. Centerlines that cross ESZ, PSAP or ESB boundaries (i.e. are not split at those boundaries)
 - iv. Centerlines that are dangles (i.e. do not connect to other centerlines. Many of these will be exceptions)
 - c. Duplicates (centerlines sharing the same geometry)
 - d. Orphan or disjointed geometries
 - e. Incorrect ESZ attribute
 - f. Centerlines with duplicate ranges
 - g. Directionality Inconsistency (ranges running high to low on either the left or right range)
 - h. Parity Mismatch (a mix of even and odds on either the left or right range and verification that the parity field is populated with the "even", "odd", or "zero" attribute based on the numbers in the left and right ranges).
 - i. Range overlaps (consists of a variety of checks with more detailed descriptions in the Discrepancy Report to aid in identification and resolution of the issues)
 - j. Road name inconsistency (Street Field (label) does not equal concatenated attributes)
 - k. Unique Id's are populated, do not contain NULL values and are indeed unique
 - l. Road segment checked against imagery (to check spatial accuracy for counties that have aeriels that meet the standards)
 - m. Fields conform to NITC & NENA standards and required fields are populated
 - n. All domains are present, and data adheres to domain values
 - o. All required metadata is populated
2. PSAP, ESZ, Emergency Service Boundaries & political boundaries:
 - a. Topological checks:
 - i. Polygons have no overlaps
 - ii. Polygons have no gaps
 - iii. ESZ & ESB boundaries are covered by PSAP boundary (to verify they are all within the PSAP)
 - iv. ESB boundaries are covered by the ESZ boundary
 - b. Unique Id's are populated, do not contain NULL values and are indeed unique
 - c. Correct ESB boundaries (Law, Fire & EMS) are in the ESZ boundary
 - d. Fields conform to NENA standards and required fields are populated
 - e. All required metadata is populated
 - f. ESZ numbers are not duplicated across PSAPs
3. Address Points:
 - a. Duplicate geometry
 - b. Incorrect ESZ attribute
 - c. Label inconsistency (Full Address (Label) does not equal concatenated attributes)
 - d. Duplicated Address Labels
 - e. Unique Id's are populated, do not contain NULL values and are indeed unique

- f. Address point placement in correspondence to centerline ranges
- g. Multi-address formats are consistent with USPS standards
- h. All required fields are present and populated
- i. All domains are present, and data adheres to domain values
- j. All required metadata is populated
- k. Identify discrepancies between TN/Ali addresses and Address points

Once contiguous counties have been submitted to the portal and have passed general compliance standards, R&S will identify any overlaps or gaps or polygon features, stacked roads and inconsistent roads names between counties. R&S will inform the affected counties and PSC GIS Specialist of any issues.

F. CONTRACTOR REQUIREMENTS

1. QA / QC PROJECT METHODOLOGY

Contractor shall deliver a QA/QC Project Plan proposing Contractor's methodology for accomplishing the Project and satisfying all requirements in this RFP.

Bidder Response:

QA/QC Project Methodology

R&S has been in business for 32 years, of which we have been performing 911 services for 20 years. We have combined corporate experience exceeding 74 years in the GIS 911 industry. We have allowed for a degree of flexibility within our Methodology to allow for conceivable changes the State of Nebraska would like to implement.

R&S recognizes the importance of working with all stakeholders involved in this project and coordinating with different entities that will be affected to accomplish a final product that fits the needs of the State of Nebraska and the PSAPs. Our experience with NG9-1-1 data maintenance and remediation has given us an inside view of how processes affect vendors and the state as well as a sound understanding of how important it is for the data to be accurate and compliant with standards. R&S has identified a project methodology based on these premises and that meet the requirements identified in the RFP. The following is an outline of our approach to the project:

- A. **Kick-off Meetings:** Conduct meetings over three days with the PSC to review processes and timeline detailed in our proposal and to discuss data acquisition. The first two days will be exclusively for the PSC's GIS Specialist and other designated Commission personnel. Day three will be devoted to vendor and PSAP participation to clarify what the process will entail regarding submittals and the subsequent reports that will be generated to determine compliance.
- B. **Web Portal:** Our portal will be set up to perform an initial check for schema compliance and that all required data is present. The initial check will generate a report if the schema does not comply or if data is missing and will generate a message that the data has been passed on for QC/QA if the schema passes and all data is present. The portal will include a user guide and frequently asked questions that will be kept current as questions arise. The portal can also include a listing for each PSAP of data they have submitted and the results of each check, similar to what will propose to provide to the PSC GIS specialist in the monthly reports.

- C. **Training:** R&S will coordinate with the Commission to determine the appropriate number of trainings for PSAP, maintenance vendors and designated Commission personnel that need to be held across the state. Training will focus on the QA/QC process, navigating the portal and understanding the Discrepancy Report.
- D. **QC/QA Review Process:** Once the datasets have been standardized they can be resubmitted through the portal for our automated and visual checks. We will provide a percentage for each feature check relating the number of errors to the quantity of each feature checked (see F1 for our proposed Discrepancy Report structure). A 98% threshold will be utilized for each check, as required by this RFP and NENA 71-501 standards. We understand that Address Points, MSAG and TN/Ali, in some instances, will be missing in the submittals--this will not affect our ability to check the spatial relationships of the other data features and the data's conformance to the specification. From experience, R&S Digital has found that it is common and an efficient workflow to fix the topology of the centerlines and polygon features prior to reviewing and fixing errors for address points and discrepancies between the MSAG and TN/Ali.
- E. **QC/QA Methods:** R&S will utilize a suite of tools that have proven reliable with our experience working with 911 GIS data. The tools will be a combination of ESRI tools, python scripts and VB based coding. The tools are flexible enough to accommodate a wide variety of visual representations of the errors. The following identifies more specific information regarding the checks we will perform on each feature:
1. ***Street Centerlines comparison to MSAG:*** R&S has created a workflow along with custom scripts that will check the relationship of the Centerline to the MSAG and the MSAG to Centerline. The checks will identify Centerlines that do not have an MSAG record, MSAG records that do not match any centerlines and range issues between records with matching name, community & ESZ.
 - a. R&S has extensive experience in identifying and fixing discrepancies between the centerlines and MSAGs and knows this can be a confusing and daunting task. R&S will help provide guidance to the Commission's GIS Specialist to help answer questions on how to resolve problematic discrepancies that might arise. R&S will also include in the Frequently Asked Questions information posted to the Portal common causes that result in discrepancies and guidance on resolving discrepancies.
 2. ***Street Centerlines comparison to TN/Ali addresses:*** R&S has created a workflow using geocoding and other comparison scripts to check the relationship of the Centerline to TN/Ali addresses. We will provide a table of TN/Ali addresses that do not fit in existing ranges of the centerlines.
 - a. R&S will include in the Frequently Asked Questions information posted to the Portal common causes that result in a TN/Ali address error (for example: no range to cover address, name of centerline does not exist, community mismatch, etc.).
 3. ***Misalignments:*** R&S has created a list of topology rules that comply with NENA GIS Data Collection & Maintenance Standards. The topology errors will be presented in a separate tab in the Discrepancy report and will be expected to be clean of errors (except for those that are exceptions) before R&S confirms the data is ready for inclusion in the Commission's GIS Repository. The topology checks and rules will also be included in the file geodatabase that R&S will return to the PSAP or maintenance

vendor. Topology checks that will be performed on all uploaded data include the following:

- a. Check for gaps or overlaps in all polygon features (ESZ, Emergency Service Boundaries & political boundaries)
 - b. Check to ensure all ESZ, Emergency Service Boundaries and political boundaries are within the PSAP boundary
 - c. Check for overhangs or where centerlines cross (are not split) at polygon boundaries
 - d. Centerlines that intersect or overlap themselves
 - e. Centerlines that are not split where two or more cross paths
 - f. Centerlines that have dangles and are not exceptions to dangles (exception examples include dead-end streets and cul-de-sacs)
4. **Attribute checks:** R&S has customized ESRI tools and created scripts to run checks on attributes to verify that the attributes meet the minimum requirements as set by NITC & NENA standards. Each attribute check will be listed by feature in the Discrepancy Report and each error referenced by its Unique ID. The following is a list of the attribute checks R&S proposes to perform on the data:
- a. All Features:
 - Check for duplicate features
 - Unique Id's are populated, do not contain NULL values and are indeed unique
 - Verification that all mandatory fields required by NITC & NENA are present and populated
 - Check that all required metadata is present
 - b. Centerlines:
 - ESZ attributes of the centerline are correct
 - Identification of centerline segments running in wrong directions (checked by high/low ranges on left and right)
 - Identification of other range issues such as overlaps & gaps, duplicate ranges & parity mismatches
 - Name consistency for Centerlines will be checked by identifying records where the label does not match the concatenated individual attributes that should make up the label. It is important to note that the Centerline to MSAG check and Centerline to TN/Ali will also help identify areas of name inconsistencies
 - c. Address Points:
 - ESZ attributes of Address Point are correct
 - Duplicate addresses (addresses with same labels)
 - Name consistency for Address points will be checked by identifying records where the label does not match the concatenated individual attributes that should make up the label. It is important to note that the Address points to TN/Ali check will also help identify areas of name inconsistencies.
 - Multi-address formats are consistent with USPS standards
 - Address point placement in correspondence to centerline ranges
5. **Statewide checks:** R&S Digital will use a combination of topological checks and custom tools and scripts to identify compatibility issues between adjoining counties.

a. County boundaries alignment to neighboring counties: We recommend that alignment checks between counties be accomplished by regions that have met the general compliance standard (98%). This approach will provide an efficient method for determining and tracking the errors. Once contiguous counties/regions have passed compliance standards, R&S will identify:

- Overlaps or gaps of polygon features
- Stacked roads and inconsistent roads names between counties
- Check that ESZs are not duplicated across PSAPs

R&S will inform the affected counties and PSC GIS Specialist of any issues.

F. **QA/QC Reports:** R&S will create all necessary reports for the project including Discrepancy Reports, Monthly reports to the Commission, and Compliance Reports.

1. **Discrepancy Reports:** R&S Digital will create Discrepancy reports for all checked data and deliver those reports to the PSAP, appropriate vendor and PSC's GIS Specialist. R&S will also return a file geodatabase to the PSAP or maintenance vendor that will contain all the data submitted, topology files and relationship tables. The topo file and relationship tables will enhance the ability of the PSAPs and maintenance vendors to identify and zoom to the errors for correction. We look forward to the oral presentations so we can demonstrate to the Evaluation Committee how these tools and reports work.
2. **Monthly Reports:** R&S will keep an on-going record of data submissions by PSAP which include data submitted, data currently under QA/QC review, results of all reviews by PSAP, and record of data by PSAP which have been determined to be in compliance with NITC and NENA standards.
3. **Compliance Reports:** R&S will generate a Compliance Report once the data has passed applicable NITC & NENA standards and submit the report to the Commission's GIS Specialist, the PSAP and maintenance vendor. The Compliance Report will contain a list of all the checks performed, the accuracy percentage of the checks, a note that the data has been accepted for inclusion in the Commission's GIS Repository and any other pertinent notes for the PSAP.

2. DETAILED ACTION PLAN
Please provide a detailed action plan that includes specifics on how implementation will be accomplished.

Bidder Response:			
Action Items	Item Description	Start Date	Completion Date
Web Portal	Create login ID's and passwords for authorized users based on authorized list provided by the PSC (ID's and passwords can be added/deleted and changed throughout the course of this project)	October 9, 2018	October 12, 2018
User Guide & Frequently Asked Questions	R&S will create a user guide and post guide on the portal. The guide will provide information on the general QA/QC process, tips for navigating the portal, tips on reading and understanding the Discrepancy Reports, and tips on how to resolve discrepancies (it is intended that this will be a living document and updated as more questions arise)	October 9, 2018	October 12, 2018
NG9-1-1 Geodatabase Template	R&S can assist in the creation of a standardized NG9-1-1 geodatabase template to house all the required NG9-1-1 data, that complies with the NITC & NENA schema standards and has the required set domains, if the Commission determines this as a helpful step	October 15, 2018	October 26, 2018
Kick-off Meetings	Meetings to be scheduled for 3 days: 2 days with PSC and 1 day for PSAPs and maintenance vendors. Meetings will provide a platform for R&S to explain our procedures and make any modifications to procedures prior to beginning the QA/QC process	November 6, 2018	November 8, 2018
Initial Submittal Request via email	R&S will send an email notifying vendors and maintainers of the opening of the Web Portal and request for first submissions. R&S will coordinate with the PSC to determine if this should be done by region	November 9, 2018	--

Training	Hold trainings across the state for PSAPs & maintenance vendors to review the QA/QC process, the Portal and understanding Discrepancy Reports. R&S will coordinate with the Commission to determine the timing and location of these trainings	TBD	TBD
Monthly Reports to Commission	Monthly reports will be sent to the Commission's GIS Specialist the 1 st of every month through the end of the project.	December 1, 2018	October 1, 2020
Standardization Checks	Initial submittals to the portal will be checked for database schema and domain compliance. PSAP and/or maintenance vendors will be notified if the data does not pass the standardization checks and informed of the causes for the noncompliance. Data that passes the standardization checks will be passed on to QA/QC Review	November 9, 2018	November 1, 2019
QA/QC Review for Topology Errors	R&S Digital will begin the QA/QC process for each PSAPs data set with performing a topology check and generating a topology report which will be included in the Discrepancy Report	November 13, 2018	September 1, 2020
QA/QC Attribute Checks	Custom tools and scripts will be used to check that attributes comply with NITC and NENA standards and to determine when the data is ready for inclusion in the Commission's GIS Repository	November 13, 2018	September 1, 2020
Centerline to MSAG and TN/Ali Comparisons	Custom tools, scripts and manual verification will be used to compare Centerline to MSAG and TN/Ali to identify discrepancies and determine when the data meets the 98% accuracy threshold	November 13, 2018	September 1, 2020
Address Points and TN/Ali Comparisons	Custom tools and scripts will be used to compare Address Points to TN/Ali addresses to identify discrepancies and determine when data meets the 98% accuracy threshold	November 13, 2018	September 1, 2020

Discrepancy Reports	Discrepancy reports listing the checks performed by feature, the accuracy percentage by feature and a listing of the features with errors will be generated after topology and all QA/QC checks are performed. These reports will be forwarded to the PSAP, maintenance vendor and the Commission's GIS Specialist. The PSAP and maintenance vendors will also receive a file geodatabase with topology and relationship tables	November 13, 2018	September 1, 2020
Compliance Reports	Once the QA/QC process identifies that the data meets the requirements set out in this RFP, a Compliance Report will be generated and sent to the Commission's GIS Specialist, PSAP & maintenance vendor	November 13, 2018	September 1, 2020
Statewide Checks	Once a set on contiguous counties (or regions) pass the compliance standard, R&S Digital will check for overlaps & gaps between neighboring counties, check for stacked roads, check for inconsistent road names between counties, and check for duplicate ESZs across PSAPs. Affected PSAPs and the Commission's GIS Specialist will be informed of any errors that are identified during this process	November 13, 2019	September 1, 2020

3. CONTRACTOR REPORTS TO PSAPs

Upon completion of its review of any GIS dataset uploaded by a PSAP or its representative, the Contractor will create and deliver a report in electronic format to both the PSAP responsible for uploading the file and the Commission's GIS Specialist.

Please submit a copy of your proposed form of the report with your response.

4. DISCREPANCY REPORT

In the case of an uploaded GIS dataset that contains errors or discrepancies, the Contractor's report shall be a Discrepancy Report in tabular format, organized by unique object identifiers, listing all errors, discrepancies and other items of note that require correction in order to achieve compliance with applicable NITC and NENA standards. Each Discrepancy Report shall also be accompanied by a shapefile of any areas where the topology in the related dataset is incorrect. In addition, the Discrepancy Report for each dataset that includes a Street Centerline layer shall state the match rate percentage between the Street Centerline layer and the MSAG.

Please submit a copy of your proposed form of the report with your response.

5. COMPLIANCE REPORT

In the case of an uploaded GIS dataset that is determined by the Contractor to be in compliance with all applicable NITC and NENA standards, the Contractor shall deliver to the related PSAP a report stating that the dataset is ready for use and has been accepted for inclusion in the Commission's GIS Repository, along

with any additional information the Contractor deems appropriate. In addition, the Compliance Report for each accepted dataset that includes a Street Centerline layer shall state the match rate percentage between (i) the Street Centerline layer and the MSAG and (ii) the Address Points layer and the ALI.

Please submit a copy of your proposed form of the report with your response.

6. CONTRACTOR REPORTS TO COMMISSION

The Contractor shall provide the Commission with a copy of each Discrepancy Report, Compliance Report, and a monthly summary of other communications the Contractor delivers to any PSAP. In addition, The Contractor will be required to deliver periodic reports to the Commission's GIS Specialist on a monthly basis, listing by jurisdiction each GIS dataset reviewed by the Contractor in the prior period, including the results of each review. Each periodic report shall also include a list of all GIS datasets currently undergoing QA/QC review, organized by PSAP. In addition, each periodic report shall also include the completion date of the most recent QA/QC review conducted for each PSAP in Nebraska, along with a list of each PSAP, if any, for which no GIS dataset was submitted to the Contractor for review. The Commission must also be notified in the event any PSAP fails to make necessary changes within thirty (30) days to a GIS dataset that has been rejected for uploading or has been the subject of a Discrepancy Report.

Please submit a copy of your report with your response.

7. PERIODIC REMINDERS TO UPLOAD GIS DATA

Local agencies will be expected to upload revised GIS datasets to the secure portal for review on at least a monthly basis. The Contractor will be required to send reminder notices via e-mail to each PSAP that has gone 85 or more days without uploading a new or revised dataset for QA/QC review. Each such reminder must include a hyperlink to the Contractor's secure portal, along with the dates and a general description of the PSAP's previous uploads to the portal.

8. CUSTOMER SERVICE RESPONSIBILITIES

The Contractor must support various methods by which local agencies and the Commission can raise questions and concerns or access information about the Contractor's QA/QC process. At a minimum, such methods must include a dedicated customer service telephone number and e-mail address. The Contractor must also maintain a User Guide and Frequently Asked Questions page dedicated to the GIS QA/QC portal on its website.

The Contractor must also provide a designated person for the Commission to contact in the event of system problems or operational questions from Commission staff. In addition, the Contractor must maintain a responsive trouble ticket system designed to direct system issues to the person who can most efficiently obtain a resolution.

a. Please describe how you will meet the requirements for customer service.

Bidder Response:

Contractor Reports to PSAPS

Upon QA/QC completion of the GIS dataset by PSAP, R&S Digital will send a Discrepancy report in electronic format to the PSAP, maintenance vendor and the PSC's GIS Specialist. The Discrepancy report is in an excel format with an overview tab which is organized by features and contains a list of the error checks along with the count of errors and the percentage of accuracy. The full overview report can be seen in figures 2-4 on pages 36-38.

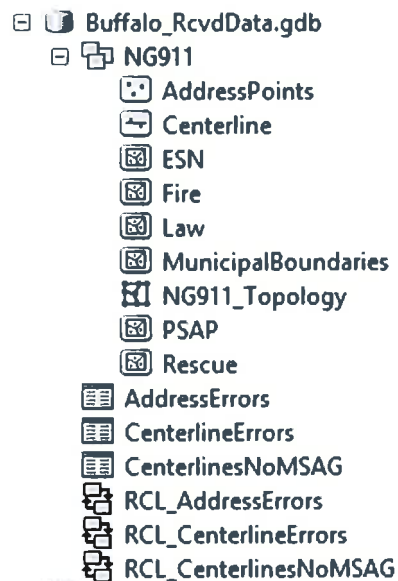
Discrepancy Report

R&S Digital will create a Discrepancy Report for all data that is checked during the QA/QC process. The Discrepancy report will be in tabular format with an overview tab of all features and errors. Additional tabs for each individual feature will list the errors and the corresponding unique ID of the feature with that error. An additional tab will be added to list the topology checks and number of errors. For the convenience of the PSAP or the maintenance vendor, R&S Digital will also return the data in a Geodatabase (gdb) that will contain topology and several relationship tables.

- The topology enables the PSAP or maintenance vendor to view the topology checks and errors as well as fix the errors and notate exceptions for errors that are exceptions (dangles is one check that will have a lot of exceptions).
- The proposed relationship tables include: Centerline with Errors, Centerlines with no Matching MSAG and Address Points with errors. The relationship class tables allow the PSAP or maintenance vendor to view the error and zoom to the feature with the error, thus improving the efficiency and the convenience of addressing errors found by the QA/QC check.

An example of the proposed set up for the Geodatabase is below:

Figure 1: Example File Geodatabase to accompany Discrepancy Report



The Discrepancy Report will start with an overview tab that combines all the checks and totals into one tab. Each subsequent tab will show the feature errors, listed by unique ID where appropriate. Figures 2 – 19 contain all the elements of the proposed Discrepancy Report with results that R&S generated from a test QA/QC of available data for Buffalo County. It is important to note that not all of the error pages are shown here for the purpose of brevity in the RFP response. We can provide a link of electronic version of this initial Discrepancy Report for Buffalo upon request.

Figure 2: Discrepancy Report: Overview, Page 1

COUNTY NAME				
Feature	Checks	Total # of Features Checked	Total # of Errors	Accuracy %
ADDRESS POINTS		6454	27	99.58%
	Invalid Geometry (Address Points)		0	
	Duplicate Geometry		5	
	Incorrect ESN		3	
	Full Address <> Concatenated Attributes		5	
	Duplicate Address Attributes (label)		5	
	Unique Id		5	
	Address Point Placement			
	Geocode to Centerline		4	
	Required Fields		1	
	Domains		14	
	Required Metadata			
*TN Addresses to Address Points		3591	5	99.86%
	TN/ALI & Address Point Comparison*	3591	5	99.86%
CENTERLINES		5690	258	95.47%
	Invalid Geometry Check (Centerline)		0	
	Duplicate		2	
	Orphan/Disjointed		46	
	Incorrect ESN		94	
	Duplicate Ranges		8	
	Directionality Inconsistency: Left Ranges		6	
	Directionality Inconsistency: Right Ranges		6	
	Parity Mismatch: Left		3	
	Parity Mismatch: Right		6	
	Left From Same		2	
	Left Ranges Overlaps		9	
	Left to Same		4	
	Right From Same		4	
	Right Ranges Overlaps		8	
	Right to Same		4	
	Street Field <> Concatenated Attributes		43	
	Unique ID		2	
	Road Segment Check against Imagery			
	Required Fields		8	
	Domains		3	
	Required Metadata		2	
CENTERLINES to MSAG & TN Addresses				84.28%
	TNs to Centerline (Geocode Check)*	3591	27	99.25%
	Centerlines with no matching MSAG	5690	614	89.21%
	MSAG with no matching Centerline	1796	738	58.91%
	MSAG/Centerline Range Differences	7486	766	89.77%

RFP Note:
*The TN number of features and errors are hypothetical and serve only as a representation of the report format

RFP Note:
*The TN number of features and errors are hypothetical and to serve only as a representation of the report format

Figure 3: Discrepancy Report: Overview, Page 2

COUNTY NAME				
Feature	Checks	Total # of Features Checked	Total # of Errors	Accuracy %
PSAP		1	0	100.00%
	Invalid Geometry Check (PSAP)		0	
	Unique ID		0	
	Required Fields			
	Required Metadata			
ESN		11	18	-63.64%
	Invalid Geometry Check (ESN)		0	
	Duplicate Features		0	
	Unique ID		11	
	Required Fields		5	
	Required Metadata		2	
EMS		8	10	-25.00%
	Invalid Geometry Check (EMS)		0	
	Duplicate Features		0	
	Unique ID		8	
	Required Fields		0	
	Required Metadata		2	
FIRE		8	10	-25.00%
	Invalid Geometry Check (Fire)		0	
	Duplicate Features		0	
	Unique ID		8	
	Required Fields		0	
	Required Metadata		2	
LAW		6	8	-33.33%
	Invalid Geometry Check (Law)		0	
	Duplicate Features		0	
	Unique ID		6	
	Required Fields		0	
	Required Metadata		2	
MUNICIPALITY		10	12	-20.00%
	Invalid Geometry Check (Municipality)		0	
	Duplicate Features		0	
	Unique ID		10	
	Required Fields		0	
	Required Metadata		2	

RFP Note:
 Error count for PSAP, ESN & Emergency Service Boundaries are hypothetical and only shown to serve as a representation of the report format

Figure 4: Discrepancy Report: Topology

Topology Results				
Feature 1	Rule	Feature 2	Errors	Exceptions
	Must Be Larger Than Cluster Tolerance		0	0
PSAP	Must Not Have Gaps		1	0
Fire	Must Not Have Gaps		1	0
Law	Must Not Have Gaps		1	0
Rescue	Must Not Have Gaps		1	0
PSAP	Must Not Overlap		0	0
Rescue	Must Not Overlap		0	0
ESN	Must Not Overlap		0	0
Law	Must Not Overlap		0	0
Fire	Must Not Overlap		0	0
Centerline	Must Be Inside	Rescue	136	0
Centerline	Must Be Inside	ESN	270	0
Centerline	Must Be Inside	Fire	137	0
Centerline	Must Be Inside	Law	193	0
Centerline	Must Be Inside	PSAP	74	0
Rescue	Area Boundary Must Be Covered By Boundary Of	PSAP	0	0
Law	Area Boundary Must Be Covered By Boundary Of	ESN	0	0
Rescue	Area Boundary Must Be Covered By Boundary Of	ESN	0	0
Fire	Area Boundary Must Be Covered By Boundary Of	ESN	0	0
ESN	Area Boundary Must Be Covered By Boundary Of	PSAP	0	0
Fire	Area Boundary Must Be Covered By Boundary Of	PSAP	0	0
Law	Area Boundary Must Be Covered By Boundary Of	PSAP	0	0
Centerline	Must Not Self-Overlap		0	0
Centerline	Must Not Self-Intersect		0	0
Centerline	Must Not Intersect Or Touch Interior		176	0
Centerline	Must Be Single Part		8	0
Centerline	Must not have Dangles		890	0
Total			1888	0

Figure 5: Discrepancy Report: Centerlines, Page 1

Centerline Error List		
Check	NEStreetID *	Notes
Invalid Geometry Check (Centerline)		
No Errors		No Errors
Duplicate		
	5659	
	5660	
Orphan/Disjointed		
	719	
	2245	
Incorrect ESN		
	719	
	722	
Duplicate Ranges		
	2249	
	5182	
Directionality Inconsistency: Left Ranges		
	3199	
	3650	
Directionality Inconsistency: Right Ranges		
	3199	
	3650	
Parity Mismatch: Left		
	1468	
	2129	
	4615	
Parity Mismatch: Right		
	699	
	1395	
Left From Same		
	4233	
	5548	
Left Ranges Overlaps		
	2131	
	4164	
	4997	
	5042	
Left to Same		
	237	
	3111	
	4233	
	5438	
Right From Same		
	4233	
	4599	
	4615	
	5548	

RFP Note:
 *Data used does not currently have a unique ID field (NEStreetID). Object id's were used in this spreadsheet as an example of how the report will be formatted.

**All the centerline errors are not shown in this report for the purposes of limiting the example format to 2 pages for the RFP.

Figure 7: Discrepancy Report: Centerlines No MSAG

Unique ID	Rd	Rd_Predir	Rd_NAME	RM_STS	ROPOD	FROM		TO RIGHT	LESN	RESN	LCOMM	RCOMM	L/E/O	R/E/O
						FROM LEFT	TO LEFT							
1468						4326	4749	4325	4748	331	331	ELM CREEK	B	B
1473						401	499	400	498	340	340	PLEASANTON	B	B
2158						6801	6899	6800	6898	327	327	BUFFALO COUNTY	B	B
2160						6701	6799	6700	6798	327	327	BUFFALO COUNTY	B	B
2163						6601	6699	6600	6698	327	327	BUFFALO COUNTY	B	B
2165						6501	6599	6500	6598	327	327	BUFFALO COUNTY	B	B
2167						6201	6499	6200	6498	327	327	BUFFALO COUNTY	B	B
4651						2000	3498	2001	3499	331	331	BUFFALO COUNTY	B	B
4467						0	0	803	831	325	325	KEARNEY	B	B
4468						0	0	1003	1019	325	325	KEARNEY	B	B
4965						1401	1639	1400	1640	327	327	BUFFALO COUNTY	B	B
4959						1401	1699	1400	1698	327	327	BUFFALO COUNTY	B	B
4960						1201	1399	1200	1398	327	327	BUFFALO COUNTY	B	B
4962						1161	1199	1160	1198	327	327	BUFFALO COUNTY	B	B
4964						1115	1125	1116	1126	327	327	BUFFALO COUNTY	B	B
1094						4	99	5	99	327	327	KEARNEY	E	O
5510						5700	5898	5701	5899	325	325	BUFFALO COUNTY	B	B
5414						2200	2298	2201	2299	325	325	KEARNEY	B	B
5412						2100	2198	2101	2199	325	325	KEARNEY	B	B
743						56376	56748	56375	56749	350	349	SHELTON	E	O
2559						56750	57498	56751	57499	350	349	SHELTON	E	O
5072						1200	1424	1201	1423	325	325	KEARNEY	B	B
4602	W					3000	3448	3001	3449	327	325	BUFFALO COUNTY	E	O
4624						19503	19999	19502	19998	27	27	SHELTON	B	B
1886						1600	1698	1601	1699	325	325	KEARNEY	B	B
5549	E					1200	1398	1201	1399			KEARNEY	B	B
5550	E					1400	1498	1401	1499			KEARNEY	B	B
5286						29000	29198	29001	29199	327	327	BUFFALO COUNTY	B	B
5288						29200	29298	29201	29299	327	327	BUFFALO COUNTY	B	B
5615	W					9999	9999	9999	9999	327	327	BUFFALO COUNTY	B	B
5616	W					2700	2998	2701	2999	327	327	BUFFALO COUNTY	B	B
5290						29000	29298	29001	29299	327	327	BUFFALO COUNTY	B	B
5577	W					1300	1398	1301	1399	325	325	KEARNEY	B	B
5578	W					1400	1498	1401	1499	325	325	KEARNEY	B	B
3049						5150	5598	5151	5599	325	327	KEARNEY	E	O
5544	E					1200	1398	1201	1399			KEARNEY	B	B
5545	E					1400	1498	1401	1499			KEARNEY	B	B
1570						10250	10998	10251	10999	337	337	BUFFALO COUNTY	B	B
1571						11000	11748	11001	11749	337	337	BUFFALO COUNTY	B	B
5621						5100	5198	5101	5199	327	327	KEARNEY	B	B
3016	E					5300	5398	5301	5399	327	327	BUFFALO COUNTY	B	B
5093	E					36	98	35	99	325	325	KEARNEY	B	B
5097	E					2700	4098	2701	4099	325	325	KEARNEY	B	B
5419						200	398	201	399	325	325	KEARNEY	B	B

Figure 8: Discrepancy Report: MSAG No Centerline

MSAG Records with no Matching Centerline						
MSAG Prd	MSAG Name	MSAG Low	MSAG High	MSAG Comm	MSAG O/E	MSAG ESN
	100TH RD	14000	17749	AMHERST		327
	100TH RD	17750	19999	RIVERDALE		327
E	100TH ST	4100	5499	KEARNEY		327
E	100TH ST	8500	9999	KEARNEY		327
W	100TH ST	3000	8999	RIVERDALE		327
E	102ND ST	1	399	KEARNEY		327
W	102ND ST	100	199	BUFFALO COUNTY		327
W	102ND ST	100	199	KEARNEY		327
W	102ND ST	1330	1635	BUFFALO COUNTY		327
E	102ND ST PL	1110	1365	BUFFALO COUNTY		327
W	102ND ST PL	1110	1365	BUFFALO COUNTY		327
W	103RD ST	1	199	BUFFALO COUNTY		327
E	105TH ST	1240	1365	BUFFALO COUNTY		327
W	105TH ST	1115	1645	BUFFALO COUNTY		327
W	106TH ST	100	199	KEARNEY		327
	107TH RD	36500	37999	BUFFALO COUNTY		327
E	108TH ST	7000	8499	KEARNEY		327
	10TH DRIVE	601	699	KEARNEY		327
W	10TH ST PL	2101	2199	KEARNEY		325
	112TH DR	1300	1425	BUFFALO COUNTY		327
W	112TH DR	1110	1630	BUFFALO COUNTY		327
	115TH RD	11700	19999	AMHERST		329
	115TH RD	19250	26999	RIVERDALE		327
	115TH RD	20000	39499	KEARNEY		327
	11TH PL	703	712	KEARNEY		325
	11TH RD	14000	14999	KEARNEY		327
W	11TH ST PL	1545	1680	KEARNEY		325
	12TH AVE	10440	10445	BUFFALO COUNTY		327
	12TH ST	299	399	KEARNEY		327
W	12TH ST PL	1700	1799	KEARNEY		325
	130TH RD	17000	25999	RIVERDALE		329
	130TH RD	26000	38750	KEARNEY		327
	133RD RD	20000	21499	RIVERDALE		327
W	13TH ST PL	1700	1799	KEARNEY		325
	140 RD N	10000	11998	HALL COUNTY		351
	145TH RD	7700	25999	AMHERST		331
	145TH RD	18500	25999	RIVERDALE		329
	145TH RD	26000	38799	KEARNEY		327
W	14TH ST PL	1700	1799	KEARNEY		325
	150 RD N	1	12899	HALL COUNTY		351
	160TH RD	3749	21499	AMHERST		325
	160TH RD	20000	38799	KEARNEY		327
	160TH RD	21500	27499	RIVERDALE		327

Figure 9: Discrepancy Report: Centerline/MSAG Range Issues

Centerline & MSAG Records with Differing Ranges &/or E/O Designation											
PRD	Rd Name	STS	Community	ESN	RD Low	RD High	RD E/O	MSAG Low	MSAG High	MSAG E/O	CompareNote
	100TH	RD	BUFFALO COUNTY	331	2000	11749	B	2000	11699	B	Range Issues
	100TH	RD	BUFFALO COUNTY	327	11750	19999	B	11700	39499	B	Range Issues
E	100TH	ST	BUFFALO COUNTY	327	4100	9999	B	4100	5499	B	Range Issues
W	100TH	ST	BUFFALO COUNTY	327	3000	8899	B	3000	8999	B	Range Issues
E	102ND	ST	BUFFALO COUNTY	327	1	3165	B	99	329	B	Range Issues
	102ND	ST	BUFFALO COUNTY	327	1100	1399	B	1110	1245	B	Range Issues
E	103RD	ST	BUFFALO COUNTY	327	2220	2699	B	2220	2700	B	Range Issues
	105TH	ST	BUFFALO COUNTY	327	1127	1159	B	1125	1155	B	Range Issues
E	106TH	ST	BUFFALO COUNTY	327	100	2699	B	2265	2699	B	Range Issues
	106TH	ST	BUFFALO COUNTY	327	2300	10650	B	2500	10650	B	Range Issues
E	108TH	ST	BUFFALO COUNTY	327	7900	8499	B	7000	8499	B	Range Issues
	10TH	AVE	KEARNEY	325	700	4799	B	5	99	B	Range Issues
W	10TH	DR	KEARNEY	325	600	699	B	601	699	B	Range Issues
	10TH	ST	GIBBON	334	1000	1099	B	1003	1023	B	Range Issues
E	10TH	ST	KEARNEY	325	300	799	B	1	699	B	Range Issues
W	10TH	ST	KEARNEY	325	1	899	B	12	799	B	Range Issues
	10TH AVE	PL	KEARNEY	325	4700	4799	B	4701	4717	B	Range Issues
	115TH	RD	BUFFALO COUNTY	329	15500	16998	E	11700	19999	B	Range & E/O Issues
	115TH	RD	BUFFALO COUNTY	327	15501	16999	O	20000	39499	B	Range & E/O Issues
	115TH	RD	BUFFALO COUNTY	331	2000	9499	B	2000	11699	B	Range Issues
	115TH	RD	BUFFALO COUNTY	329	17500	19999	B	11700	19999	B	Range Issues
	115TH	RD	BUFFALO COUNTY	334	41000	51499	B	39500	51499	B	Range Issues
	115TH	RD	BUFFALO COUNTY	350	51500	56374	B	51500	57499	B	Range Issues
	11TH	AVE	KEARNEY	325	800	6206	B	800	4299	B	Range Issues
	11TH	RD	BUFFALO COUNTY	331	5750	11749	B	5000	12999	B	Range Issues
	11TH	RD	BUFFALO COUNTY	327	11750	15499	B	13000	17000	B	Range Issues
E	11TH	ST	KEARNEY	325	1	1999	B	1	1599	B	Range Issues
E	11TH	ST	BUFFALO COUNTY	327	2000	8499	B	1	7824	B	Range Issues
W	11TH	ST	KEARNEY	325	1	2299	B	1	1799	O	Range & E/O Issues
W	11TH	ST	BUFFALO COUNTY	327	2300	4599	B	1801	4599	O	Range & E/O Issues
W	11TH	ST	KEARNEY	325	2600	2998	E	1	1799	O	Range & E/O Issues
W	11TH	ST	BUFFALO COUNTY	327	3000	3448	E	1801	4599	O	Range & E/O Issues
W	11TH	ST	BUFFALO COUNTY	327	2601	2999	O	1801	4599	O	Range Issues
	11TH AVE	PL	KEARNEY	325	700	712	B	701	799	B	Range Issues
	128TH	RD	BUFFALO COUNTY	327	28350	28509	B	28351	28500	B	Range Issues
	12TH	AVE	KEARNEY	325	800	3299	B	803	3299	B	Range Issues
	12TH AVE	PL	KEARNEY	325	700	712	B	701	799	B	Range Issues
	12TH AVE	PL	BUFFALO COUNTY	327	10300	10740	B	10310	10740	B	Range Issues
	12TH ST	PL	KEARNEY	325	1700	1715	B	703	712	B	Range Issues
	130TH	RD	BUFFALO COUNTY	329	17000	19685	B	9500	10998	E	Range & E/O Issues
	130TH	RD	BUFFALO COUNTY	331	2000	4999	B	2000	9499	B	Range Issues
	130TH	RD	BUFFALO COUNTY	327	21500	39499	B	20000	39499	B	Range Issues
	130TH	RD	BUFFALO COUNTY	334	47000	51499	B	39500	51499	B	Range Issues
	130TH	RD	BUFFALO COUNTY	350	51500	57499	B	51500	57500	B	Range Issues
E	13TH	ST	KEARNEY	325	1	1199	B	1	1399	B	Range Issues
	13TH ST	PL	KEARNEY	325	1700	1715	B	1700	1799	B	Range Issues
	145TH	RD	BUFFALO COUNTY	331	6501	9499	O	2000	6499	B	Range & E/O Issues
	145TH	RD	BUFFALO COUNTY	329	9500	19999	B	6500	9498	E	Range & E/O Issues
	145TH	RD	BUFFALO COUNTY	327	20000	37999	B	20000	39499	B	Range Issues
	145TH	RD	BUFFALO COUNTY	334	41000	51499	B	39500	51499	B	Range Issues
	14TH	AVE	BUFFALO COUNTY	327	10200	10499	B	10210	10450	B	Range Issues
E	14TH	ST	KEARNEY	325	1	1199	B	1	1399	B	Range Issues
W	14TH	ST	KEARNEY	325	1	1599	B	1	999	B	Range Issues
	14TH AVE	PL	KEARNEY	325	4900	5049	B	4901	5099	B	Range Issues
	14TH ST	PL	KEARNEY	325	1700	1715	B	1703	1715	B	Range Issues
	15TH	AVE	KEARNEY	325	1100	5599	B	801	1015	B	Range Issues
E	15TH	ST	KEARNEY	325	1	1199	B	1	1399	B	Range Issues
W	15TH	ST	KEARNEY	325	100	899	B	1	899	B	Range Issues
	15TH AVE	PL	KEARNEY	325	4900	5099	B	4901	5099	B	Range Issues
W	15TH ST	PL	KEARNEY	325	1700	1715	B	1700	1798	B	Range Issues
	160TH	RD	BUFFALO COUNTY	331	2000	4099	B	2000	6499	B	Range Issues

Figure 10: Discrepancy Report: TN to Centerline Comparison

TN Address Check Against Centerline				
TN	Address	MSAG Community	TELCO	Notes
XXXXXXXXXX	1 MUNICIPAL AIRPORT	INDEPENDENCE	SWBT	
XXXXXXXXXX	1 MUNICIPAL AIRPORT	INDEPENDENCE	SWBT	
XXXXXXXXXX	2605 W 10TH ST	COFFEYVILLE	COX	
XXXXXXXXXX	303 N LINDEN ST	COFFEYVILLE	COX	
XXXXXXXXXX	1 RIVERSIDE PARK SHELTER	INDEPENDENCE	SWBT	
XXXXXXXXXX	215 W RAILROAD ST	INDEPENDENCE	SWBT	
XXXXXXXXXX	1540 E 3RD AVE	CANEY	COX	
XXXXXXXXXX	901 S HIGHLAND RD	COFFEYVILLE	COX	
XXXXXXXXXX	400 N LINDEN	COFFEYVILLE	SWBT	
XXXXXXXXXX	2254 N OVERLOOK DR	COFFEYVILLE	SWBT	
XXXXXXXXXX	1717 W 2475	COFFEYVILLE	SWBT	
XXXXXXXXXX	2603 W 10TH ST	COFFEYVILLE	COX	
XXXXXXXXXX	400 N LINDEN	COFFEYVILLE	SWBT	
XXXXXXXXXX	4263 N CLINE RD	COFFEYVILLE	SWBT	
XXXXXXXXXX	3161 S BUCKEYE	COFFEYVILLE	SWBT	
XXXXXXXXXX	701 E NORTH ST	COFFEYVILLE	SWBT	
XXXXXXXXXX	701 E NORTH ST	COFFEYVILLE	SWBT	
XXXXXXXXXX	701 E NORTH ST	COFFEYVILLE	SWBT	
XXXXXXXXXX	701 E NORTH ST	COFFEYVILLE	SWBT	
XXXXXXXXXX	3625 N CLINE RD	COFFEYVILLE	SWBT	
XXXXXXXXXX	3788 N OVERLOOK DR	COFFEYVILLE	SWBT	
XXXXXXXXXX	2504 S SUNFLOWER	COFFEYVILLE	SWBT	
XXXXXXXXXX	2613 SOUTHERN HILLS DR	COFFEYVILLE	SWBT	
XXXXXXXXXX	400 N LINDEN	COFFEYVILLE	SWBT	
XXXXXXXXXX	400 N LINDEN	COFFEYVILLE	SWBT	
XXXXXXXXXX	400 N LINDEN	COFFEYVILLE	SWBT	
XXXXXXXXXX	2788 N OVERLOOK DR	COFFEYVILLE	SWBT	

RFP Note:
 The data shown in this spreadsheet is hypothetical and to serve only as a representation of the report format

Figure 11: Discrepancy Report: Address Points

Address Point Error List		
Check	NEAddressID	Notes
Invalid Geometry (Address Points)		
No Errors		No Errors
Duplicate Geometry		
	201807291011	
	201807291020	
	201807291009	
	201807291008	
	201807291007	
Incorrect ESN		
	20170812052	
	20160729351	
	201401272930	
Full Address <-> Concatenated Attributes		
	20150420	
	20110825	
	20110824	
Duplicate Address Attributes (label)		
	20150729	
	20150728	
	2015	
	20180727	
	20180725	
Unique Id		
	5 points	Field is blank or null
Address Point Placement		
Required Fields		
AddressNumber		
	2222	Field is blank or null
Domains		
	No Errors	All required domains are present
Required Metadata		
	No Errors	All required metadata is present

RFP Note:
All data shown in this spreadsheet are hypothetical and only shown to serve as a representation of the report format

Figure 12: Discrepancy Report: Address Point Geocode Errors

Address Point Geocode to Centerline Errors						
Score	Matched Address	NEAddressID	FullAddress	City	Zip	State
0		1418048429211	14200 150TH RD	AMHERST	68847	NE
92.5	203 E GARFIELD AVE, AMHERST, NE, 68845	14180484316294	203 GARFIELD	AMHERST	68845	NE

Score	Matched Address	NEAddressID	FullAddress	MSAG	Zip	State
0		1418048429211	14200 150TH RD	BUFFALO COUNTY	68847	NE
Tied		1418048431031	315 3RD AVE	WVERDALE	68870	NE

RFP Note:
All data shown in this spreadsheet are hypothetical and only shown to serve as a representation of the report format

Figure 13: Discrepancy Report: TNs to Address Points

TN Addresses Not Matching Address Points				
TN	Address	MSAG Community	TELCO	Notes
XXXXXXXXXX	2603 W 10TH ST	COFFEYVILLE	COX	
XXXXXXXXXX	400 N LINDEN	COFFEYVILLE	SWBT	
XXXXXXXXXX	4263 N CLINE RD	COFFEYVILLE	SWBT	
XXXXXXXXXX	3161 S BUCKEYE	COFFEYVILLE	SWBT	
XXXXXXXXXX	2788 N OVERLOOK DR	COFFEYVILLE	SWBT	

RFP Note:
The data shown in this spreadsheet is hypothetical and to serve only as a representation of the report format.

Figure 14: Discrepancy Report: PSAP

PSAP Error List		
Check	Unique ID	Notes
Invalid Geometry Check (ESN)	No Errors	
Duplicate Features	No Errors	
Unique ID	1 polygon	Field is blank or null
Required Fields	No Errors	
Required Metadata		
Citation: Date - Date when the resource was created, published or revised		Missing
Metadata: File Identifier - A Unique Identifier for the metadata. Typically a GUID, or county code		Missing

RFP Note:
Data shown in this spreadsheet is hypothetical and only shown to serve as a representation of the report format

Figure 15: Discrepancy Report: ESZ

ESN Error List		
Check	Unique ID	Notes
Invalid Geometry Check (ESN)	No Errors	
Duplicate Features	No Errors	
Unique ID	14 polygons	Field is blank or null
Required Fields	No Errors	
Required Metadata		
Citation: Date - Date when the resource was created, published or revised		Missing
Metadata: File Identifier - A Unique Identifier for the metadata. Typically a GUID, or county code		Missing

RFP Note:
Data shown in this spreadsheet is hypothetical and only shown to serve as a representation of the report format

Figure 16: Discrepancy Report: EMS

EMS Error List		
Check	Unique ID	Notes
Invalid Geometry Check (EMS)		
No Errors		
Duplicate Features		
No Errors		
Unique ID		
	8 polygons	Field is blank or null
Required Fields		
No Errors		
Required Metadata		
Citation: Date - Date when the resource was created, published or revised		Missing
Metadata: File Identifier - A Unique Identifier for the metadata. Typically a GUID, or county code		Missing

RFP Note:
Data shown in this spreadsheet is hypothetical and only shown to serve as a representation of the report format

Figure 17: Discrepancy Report: Fire

Fire Error List		
Check	Unique ID	Notes
Invalid Geometry Check (FIRE)		
No Errors		
Duplicate Features		
No Errors		
Unique ID		
	8 polygons	Field is blank or null
Required Fields		
No Errors		
Required Metadata		
Citation: Date - Date when the resource was created, published or revised		Missing
Metadata: File Identifier - A Unique Identifier for the metadata. Typically a GUID, or county code		Missing

RFP Note:
Data shown in this spreadsheet is hypothetical and only shown to serve as a representation of the report format

Figure 18: Discrepancy Report: Law

Law Error List		
Check	Unique ID	Notes
Invalid Geometry Check (LAW)		
No Errors		
Duplicate Features		
No Errors		
Unique ID		
	6 polygons	Field is blank or null
Required Fields		
No Errors		
Required Metadata		
Citation: Date - Date when the resource was created, published or revised		Missing
Metadata: File Identifier - A Unique Identifier for the metadata. Typically a GUID, or county code		Missing

RFP Note:
Data shown in this spreadsheet is hypothetical and only shown to serve as a representation of the report format

Figure 19: Discrepancy Report: Political Boundary

Municipal Boundary / other Political Boundary Error List		
Check	Unique ID	Notes
Invalid Geometry Check (Municipality)	No Errors	
Duplicate Features	No Errors	
Unique ID	10 polygons	Field is blank or null
Required Fields	No Errors	
Required Metadata		
Citation: Date - Date when the resource was created, published or revised		Missing
Metadata: File Identifier - A Unique Identifier for the metadata. Typically a GUID, or county code		Missing

RFP Note: Data shown in this spreadsheet is hypothetical and only shown to serve as a representation of the report format

Compliance Report

R&S Digital will generate a compliance report once the data has passed applicable NITC & NENA standards and submit the compliance report to the PSAP & the PSC's GIS Specialist. The compliance report is currently organized similar to the overview in the Discrepancy Report with additional comments regarding the data being ready for inclusion into the GIS Repository and any other pertinent information R&S Digital in conjunction with the PSC's GIS Specialist deem necessary. See figures 20-22 for examples of the Compliance Report.

Figure 20: Compliance Report Page 1

COUNTY NAME					Results
Feature	Checks	Total # of Features Checked	Total # of Errors	Accuracy %	3/25/2019
ADDRESS POINTS		6454	4	99.94%	Passed
	Invalid Geometry (Address Points)		0		The NG9-1-1 data for (COUNTY NAME) has passed compliance with all applicable NITC & NENA Standards. The data has been accepted for inclusion in the Commission's GIS Repository.
	Duplicate Geometry		0		
	Incorrect ESN		0		
	Full Address <> Concatenated Attributes		0		
	Duplicate Address Attributes (label)		0		
	Unique Id		0		
	Address Point Placement		0		
	Geocode to Centerline		4		
	Required Fields		0		
	Domains		0		
	Required Metadata		0		
*TN Addresses to Address Points		3591	5	99.86%	
TN/ALI & Address Point Comparison*		3591	5	99.86%	
CENTERLINES		5690	4	99.93%	
	Invalid Geometry Check (Centerline)		0		It is the responsibility of the PSAP or contracted maintenance vendor to ensure that any changes to the data maintain compliance with the standards and are reflected in the MSAG.
	Duplicate		2		
	Orphan/Disjointed		2		
	Incorrect ESN		0		
	Duplicate Ranges		0		
	Directionality Inconsistency: Left Ranges		0		
	Directionality Inconsistency: Right Ranges		0		
	Parity Mismatch: Left		0		
	Parity Mismatch: Right		0		
	Left From Same		0		
	Left Ranges Overlaps		0		
	Left to Same		0		
	Right From Same		0		
	Right Ranges Overlaps		0		
	Right to Same		0		
	Street Field <> Concatenated Attributes		0		
	Unique ID		0		
	Road Segment Check against Imagery		0		
	Required Fields		0		
	Domains		0		
	Required Metadata		0		
CENTERLINES to MSAG & TN Addresses				99.87%	
	TNs to Centerline (Geocode Check)*	3591	10	99.72%	
	Centerlines with no matching MSAG	5690	2	99.96%	
	MSAG with no matching Centerline	1796	4	99.78%	
	MSAG/Centerline Range Differences	7486	0	100.00%	

Figure 21: Compliance Report Page 2

COUNTY NAME					Results
Feature	Checks	Total # of Features Checked	Total # of Errors	Accuracy %	3/25/2019
PSAP		1	0	100.00%	
	Invalid Geometry Check (PSAP)		0		
	Unique ID		0		
	Required Fields		0		
	Required Metadata		0		
ESN		11	0	100.00%	
	Invalid Geometry Check (ESN)		0		
	Duplicate Features		0		
	Unique ID		0		
	Required Fields		0		
	Required Metadata		0		
EMS		8	0	100.00%	
	Invalid Geometry Check (EMS)		0		
	Duplicate Features		0		
	Unique ID		0		
	Required Fields		0		
	Required Metadata		0		
FIRE		8	0	100.00%	
	Invalid Geometry Check (Fire)		0		
	Duplicate Features		0		
	Unique ID		0		
	Required Fields		0		
	Required Metadata		0		
LAW		6	0	100.00%	
	Invalid Geometry Check (Law)		0		
	Duplicate Features		0		
	Unique ID		0		
	Required Fields		0		
	Required Metadata		0		
MUNICIPALITY		10	0	100.00%	
	Invalid Geometry Check (Municipality)		0		
	Duplicate Features		0		
	Unique ID		0		
	Required Fields		0		
	Required Metadata		0		

Figure 22: Compliance Report Page 3

Topology Results					
Feature 1	Rule	Feature 2	Errors	Exceptions	Results
	Must Be Larger Than Cluster Tolerance		0	0	3/25/2019
PSAP	Must Not Have Gaps		0	1	Passed
Fire	Must Not Have Gaps		0	1	
Law	Must Not Have Gaps		0	1	
Rescue	Must Not Have Gaps		0	1	
PSAP	Must Not Overlap		0	0	
Rescue	Must Not Overlap		0	0	
ESN	Must Not Overlap		0	0	
Law	Must Not Overlap		0	0	
Fire	Must Not Overlap		0	0	
Centerline	Must Be Inside	Rescue	0	0	
Centerline	Must Be Inside	ESN	0	0	
Centerline	Must Be Inside	Fire	0	0	
Centerline	Must Be Inside	Law	0	0	
Centerline	Must Be Inside	PSAP	0	0	
Rescue	Area Boundary Must Be Covered By Boundary Of	PSAP	0	0	
Law	Area Boundary Must Be Covered By Boundary Of	ESN	0	0	
Rescue	Area Boundary Must Be Covered By Boundary Of	ESN	0	0	
Fire	Area Boundary Must Be Covered By Boundary Of	ESN	0	0	
ESN	Area Boundary Must Be Covered By Boundary Of	PSAP	0	0	
Fire	Area Boundary Must Be Covered By Boundary Of	PSAP	0	0	
Law	Area Boundary Must Be Covered By Boundary Of	PSAP	0	0	
Centerline	Must Not Self-Overlap		0	0	
Centerline	Must Not Self-Intersect		0	0	
Centerline	Must Not Intersect Or Touch Interior		0	0	
Centerline	Must Be Single Part		0	0	
Centerline	Must not have Dangles		0	650	
Total			0	654	

Contractor Reports to Commission

R&S Digital will provide the Commission’s GIS Specialist a copy of every Discrepancy Report & Compliance Report. We will also maintain a report that tracks the progress the QA/QC process and provide the report to the Commission’s GIS Specialist monthly. This report will be organized by PSAP and include data received, date received, whether the data has been standardized, actions, QC/QA start date, progress of QC/QA, results of completed QC/QA, and date Discrepancy Report sent.

This spreadsheet will allow for R&S to track if more than 30 days have passed since a corrected dataset has been uploaded to the Portal and communicate that information to the Commission. R&S Digital intends to keep track of each submission and the results of each submission, which will be represented in the report to the GIS Specialist. If at any time, it is determined that the PSC’s GIS Specialist or the PSC Advisory Committee needs more information or would like changes to the report, R&S Digital can accommodate those requests. See Figure 23 for an example of the Monthly Report.

Figure 23: Monthly Progress Report

NE NG9-1-1 QA/QC Monthly Summary - February 2, 2019										
PSAP	Data Received	Date Received	Standardized Data?	Address	QC/QA Start Date	QC/QA Progress	QC/QA Results	Date Discrepancy Report Sent	QC/QA Actions	Additional Comments
Antelope County	Centrifuges, Address Points, PSAP, ESN, Fire, Law, EMS, Municipal Standardized NG9-1-1 gdb, MLAG 5, TN Unit	10/29/2018	No	Returned to PSAP to Standardize data	11/13/2018	25%				
Bacone County	Standardized NG9-1-1 gdb	1/15/2019	Yes	Forwarded to QC/QA	1/16/2019	100%	68.0%	1/21/2019	Returned to PSAP for corrections	Passed 30 days since Discrepancy report sent
Bond-Holt Counties										
Brown County										
Buffalo County										
Burt County										
Butler County										
Cass County										
Cedar County										
Chase County										
Cherokee County										
City of Alliance										
City of Beatrice										
City of Columbus										
City of Falls City										
City of Grand Island										
City of Hastings										
City of Hedrick										
City of Lincoln										

Periodic Reminders to Upload GIS data

R&S Digital will track submission uploads to the Portal and send email reminders to PSAPs and maintenance vendors if a PSAP has gone more than 85 days without uploading new or revised data. The email reminders will include a hyperlink to the portal along with the date and a summary of the last upload.

Customer Service Responsibilities

R&S Digital places customer service as a high priority and understands the importance of open communication and the need for information to be easily accessible and understandable. The R&S Digital Project Coordinator will serve as the primary contact for the QA/QC project and will be available via phone or email to answer any questions regarding the QA/QC process or the portal. A page will be included in the portal for users to access a User Guide on navigating the portal and uploading data. Frequently Asked Questions regarding the QA/QC process and the portal will also be available on the website as well as information on how to interpret the Discrepancy Report.

Training must also be made available to local agencies and designated Commission personnel on the Contractor's QA/QC process.

- b. Please describe how you will approach and accomplish training local agencies and Commission personnel.**

Bidder Response:

As outlined in the Project Methodology and Detailed Action Plan, R&S Digital will set up trainings across the state for local agencies, NG9-1-1 Data Maintainers, and designated Commission personnel to attend. The Trainings will cover the QA/QC process, demonstrate the use of the portal, and review how to interpret Discrepancy reports.

G. DELIVERABLES

Please see Cost Proposal Template.

SEPERATED SECTIONS
Per RFP Instructions

CORPORATE OVERVIEW
TECHNICAL APPROACH &
COST PROPOSALS

VI. CORPORATE OVERVIEW

a. BIDDER IDENTIFICATION AND INFORMATION

Name: R&S Digital services Inc.
Headquarters: 1920 A. 24th St.
Great Bend, Kansas 67530

Date Established: R&S Digital Services was established in 1986.

Ownership: The company was incorporated in 1987 as an S corporation. In 1991 Bruce Schneider acquired sole interest in the Corporation. Bruce Schneider is the President / CEO.

b. FINANCIAL STATEMENTS

See figure 24, page 51

c. CHANGE OF OWNERSHIP

There are no plans for change of ownership within the next year.

d. OFFICE LOCATION

The office location will be in Great Bend, Kansas and will be responsible for the performance of this contract with the State of Nebraska.

e. RELATIONSHIPS WITH THE STATE

R&S has participated in workshops in a public meeting setting with PSC committee. We provided examples of our checks with available data on Buffalo, Nuckolls and Thayer counties. In 2017 we were asked to provide our findings to the PSC Committee. R&S has attended conferences as an exhibitor in the past 5 years. R&S currently has no contracts with the State of Nebraska.

f. BIDDER'S EMPLOYEE RELATIONS TO STATE

There are no current or former employees within the past eighteen months with the State of Nebraska that are named in this response.

Currently R&S has no relationship with any employee of any agency of the State of Nebraska, nor is any employee for the State of Nebraska employed by R&S Digital as an employee or subcontractor. No such relationship exists.

g. CONTRACT PERFORMANCE

R&S has had no contracts terminated the past 5 years or at any other time in our 37 years of doing GIS work within multiple states and counties. We do not use subcontractors except when our clients request more current aerial photography.

R&S has never received an order to stop performance nor had a contract terminated for convenience, non-performance, non-allocation of funds, or any other reason.

Figure 24: Financial Statement

12:17 PM
08/03/18
Accrual Basis

R&S Digital Services, Inc.
Balance Sheet
As of December 31, 2017

	<u>Dec 31, 17</u>
ASSETS	
Current Assets	
Checking/Savings	
1000 · Farmers Bank-7/02/04	29,583.49
Total Checking/Savings	<u>29,583.49</u>
Accounts Receivable	
1050 · Accounts Receivable	241,407.15
Total Accounts Receivable	<u>241,407.15</u>
Total Current Assets	<u>270,990.64</u>
Fixed Assets	
1200 · Equipment	
1210 · Office Furn & Equipment	367,022.73
1220 · Vehicles	89,876.04
1250 · Accumulated Deprn.	-457,861.00
1200 · Equipment - Other	<u>22,224.37</u>
Total 1200 · Equipment	<u>21,262.14</u>
Total Fixed Assets	<u>21,262.14</u>
Other Assets	
1260 · Software	43,164.33
1270 · Accum. Amort.	<u>-33,742.00</u>
Total Other Assets	<u>9,422.33</u>
TOTAL ASSETS	<u>301,675.11</u>
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
2010 · Accounts Payable	3,197.76
Total Accounts Payable	<u>3,197.76</u>
Other Current Liabilities	
3599 · Sales Tax Adjustment	314.41
3592 · Credit Card Payable	225.77
2200 · Sales Tax Payable	798.73
2025 · Payroll Liabilities	<u>14,855.30</u>
Total Other Current Liabilities	<u>16,194.21</u>
Total Current Liabilities	<u>19,391.97</u>
Long Term Liabilities	
4065 · N/P - Farmers #73478	40,013.44
4070 · N/P - Farmers #75052	40,030.50
4055 · N/P - Farmers #55381	20,776.42
4050 · N/P - Farmers #55380	<u>15,501.33</u>
Total Long Term Liabilities	<u>116,321.69</u>
Total Liabilities	<u>135,713.66</u>
Equity	
2970 · Common Stock	50,000.00
2990 · Retained Earnings	<u>218,466.63</u>

12:17 PM
08/03/18
Accrual Basis

R&S Digital Services, Inc.
Balance Sheet
As of December 31, 2017

	Dec 31, 17
2960 - Stockholder Dist.	-75,191.45
Net Income	-27,313.73
Total Equity	169,961.45
TOTAL LIABILITIES & EQUITY	301,675.11

h. SUMMARY OF BIDDER'S CORPORATE EXPERIENCE

The bidder should provide a summary matrix listing the bidder's previous projects similar to this RFP in size, scope, and complexity. The State will use no more than three (3) narrative project descriptions submitted by the bidder during its evaluation of the proposal.

i. State of Kansas NG9-1-1 Coordinating council:

R&S was awarded a remediation contract which encompassed 80% of the contracted work across the state of Kansas. We were awarded the contract on December 21st of 2013 with a 2 year renewal. The work was completed ahead of schedule in September 2016. There were many obstacles to overcome, namely discrepancies we found between the GAP analysis and our internal checks. Seeing that our checks, we felt were more representative of specifications we were to abide to we began to work with the state to refine our scripts to coincide with the state's expectations. This process provided us with and in-depth knowledge of the NENA Standard and the Specification that the State of Kansas had adopted.

Our delivery rate was the highest in across the state. We had a 95% first submittal rate and could achieve 100% submittal rate on the second submittal, usually within a day of notification. The biggest obstacle in the project was getting all the source documents prior to doing the work. ESN and ESB boundaries changed based on the telephone company's understanding the

requirements for TN/ALI, MSAG and Address, checks especially during the first year of the contract. NG9-1-1 was really just a concept at the beginning of the project and many vendors were not prepared for the transition to NG9-1-1. We worked on multiple PSAPs at the same time and worked with all telephone company's in order to resolve many of the problems that began to be identified across the state. We were the prime contractor and utilized no subcontractors. R&S's primary responsibility was to bring into compliance all Phase II datasets with the specifications established for NG9-1-1.

The schedule for completion was from the date of signing the contract which included a two year extension from the date of signing.

Date of Signing – December 11th 2013

Date of Completion – September 2016 (3 months ahead of schedule)

Customer- State of Kansas Coordinating council

Primary Contact – Randall White, Project Coordinator

Phone Number – 913-485-9911 fax- 913-268-7150

Email: randallwhite@kc.rr.com

Payments 2014 **\$ 258,630.50**

Payments 2015 **\$ 637,307.95**

Total Project Amt. \$ 895,938.44

II. State of Kansas E-911 project:

R&S completed 38 counties/PSAPs between 2002 and 2008. The work was contracted by county jurisdictions and paid for by a state grant. At that time, there were not state specifications to adhere to. We utilized the NENA standard as our specification. Spatial compliance guided by NENA and the MSAG standards were used. The datasets that were provided initially were Tiger files with no accompanying MSAGS, address points or TN/ALI files. Consequently, we were relegated to creating entirely new datasets that would work with the individual PSAPs, which were having difficulties with routing emergency services accurately to the site location. At the same time, dispatching software was being implemented to accommodate Phase II compliance. This required R&S to go on site to train and setup the mapping side of the dispatching software. We developed a work flow that addressed all the deficiencies in the legacy data and developed a topological model that caught the errors for our internal QC/QA.

While this process was time consuming it did facilitate the transition into NG9-1-1 and there by reduced the costs of the transition substantially.

Because we contracted with the County/PSAP and there was no mandate requiring the Counties to comply with Phase II, we had to sell the projects by PSAP/County. The contracts had to be approved, but there was no state oversight in regard to the accuracy and content completeness. Thus, we utilized the NENA standards for internal checks and to establish data conformity across the 38 counties.

The schedule for completion was spread over 6 years in which the individual contracts ranged from 6 to 12 months depending on complexity. We were able to complete all 38 counties in the allotted contractual time frame.

Instead of using 1 individual county as reference, we decided to use AT&T as a reference due to the fact they were essentially the end user for 70% of the Phase II work. We feel that successful GIS data interface with their dispatching solution will provide you with a better idea on the quality of work that was performed.

The schedule for completion was from the date of the first contract to the final contract. These contracts spanned 6 years.

Date of Signing – October of 2002

Date of Completion - September of 2008

Individual PSAPs paid for by 911 Coordinating Council

Primary Contact – Phil Ryan (Formerly AT&T 911 services)

Phone Number – 316-655-0343

Email pryane911@gmail.com

E911 payments 2002 – 2008

III. **Oklahoma County Centerlines:**

Oklahoma County Appraisers office contracted with R&S to create a centerline file with the proper ranges and names for all the roads in the county including all the cities within the counties jurisdiction. Oklahoma County is the largest county in Oklahoma. Oklahoma County had no centerline and wanted us to just create the centerlines and provide edit sheets for the GIS department to edit. The project was developed primarily to facilitate ongoing processes that were dependent a good centerline data set in order to route data collectors to appropriate site location. We currently have been contacted by Oklahoma's NG9-1- director to participate in their upcoming remediation project.

The schedule for completion was 1 year from the signing of the contract, we completed it in 9 months.

Date of signing – October of 2001

Date of completion- June of 2002

Customer, Oklahoma County Appraisers office.

Primary Contact – Mike Morrison, GIS Supervisor

Phone Number – 405-713-1200

Email Address - micmor@okcounty.org

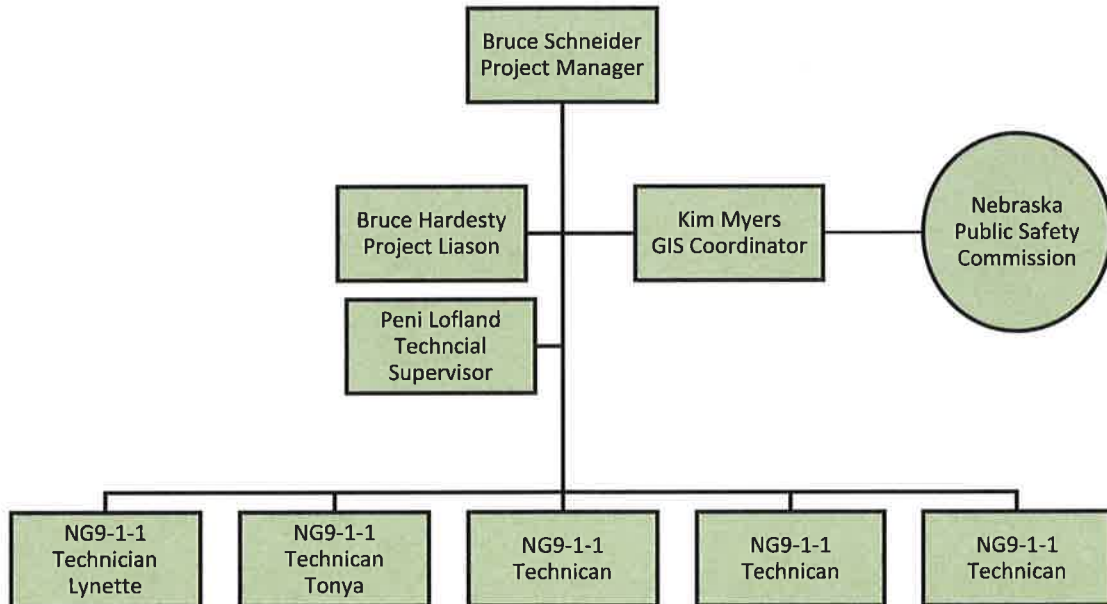
Payments 2001- \$35,000

Payments 2002 -\$45,000

i. **SUMMARY OF BIDDER'S PROPOSED PERSONNEL/MANAGEMENT APPROACH**

R&S will manage this project with a team of GIS professionals that have extensive experience doing E911 projects and NG9-1-1 projects. As a small company we pride ourselves in our ability to bring jobs in on time and on budget. Our successes relate directly to our management style which relies on our ability communicate between technicians and follow the specification for the project. Our GIS coordinator will work with the State and our lead technician. Our technicians are all cross trained to perform QC/QA checks, generate reports and forward reports to Kim Myers, GIS coordinator for final checks prior to release of any reports. Peni Lofland will provide ongoing technical assistance and training for our technicians. Bruce Hardesty will operate as Project Liaison, which encompasses working with the State directly to overcome any unforeseen obstacles that might occur during the project and communicate back to the Project Manager and our GIS Coordinator. Bruce Schneider will be Project Manager and will be responsible for all aspects of the project, internally and working with the State of Nebraska, PSAPS and Vendors. See Figure 1 for a depiction of our management structure.

Figure 25: R&S Digital Management Structure



Individual Key Resumes

Bruce Schneider

Project Manager

- ◆ President of R&S Digital Services
- ◆ Responsible for all facets of operations and business management.
- ◆ Track record of 150 successful projects within Kansas and Nationwide.
- ◆ State Work Includes projects for Homeland Security, E9-1-1 mapping, and NG9-1-1 mapping.
- ◆ Federal projects include FEMA DFIRM Mapping.
- ◆ Mapping disciplines across all business and government sectors include; oil & gas, electric power generation, transmission & distribution; regulatory compliance; assessment & appraisal; hydrological modeling & hydrographic mapping; site design & analysis asset inventories, field inventory; courthouse records including indexes, deeds, plats, plans, permitting and CAMA.
- ◆ Conduct RTK, GPS Surveys for Collection of Photo Control points and Infrastructure features.
- ◆ Software GIS & CADD expert with ESRI, Intergraph, Bentley MicroStation, GeoPak, AutoCad, LizardTech, Adobe Flex, PostgresSql, Leica, CAMA, Land Record Management, Microsoft Office. Integration and database experience with product and software development for clients and operational efficiency.
- ◆ GIS Enterprise Database/Web Design and Development, design and implementation of ArcGIS Server Enterprise database for Government Entities. Involved in design and conversion of multiple Raster and Vector Datasets into ESRI ArcGIS Server. Manage development of Adobe Flex website.

EDUCATION

- ◆ Associates Degree Surveying, Kansas State University at Salina

REGISTRATIONS AND CERTIFICATIONS

- ◆ Certified ESRI Business Partner
- ◆ Kansas Association of Mappers
- ◆ Former Kansas Planners Association
- ◆ Certified 3D modeler with Sutherland Inc. Salt lake City, Utah
- ◆ Certified Intergraph Registered Consultant. IRC Huntsville, Alabama

PUBLICATION/PRESENTATIONS/SEMINARS

- ◆ Kansas Association of Mappers, Presentation: Legacy mapping systems 2009
- ◆ Kansas Association of Mappers Presentation: E-911 Mapping Issues
- ◆ Missouri Mappers Association. Presentation: Disaster Mapping with GIS 2007
- ◆ Oklahoma County, Public Information Presentation: Tornado Response with GIS, 2000

EMPLOYMENT HISTORY

President General Manager, R&S Digital Services Inc., Great Bend, KS., 1986-2013 Responsible for business development, sales, operation, finance and administration. Program manager for large programs and multi-year projects.

Director of Planning Barton County Kansas, Great Bend, Kansas, 1983–1987. Responsible for all facets of planning and development of Comprehensive Development Plan, Implemented first PC based Digital-mapping project in Kansas. Resigned to manage R&S Full time in 1987.

Engineering Technician, City of Wichita Engineering Department, 1969-1972, 1976-1981. Conducted Preliminary Survey's and Construction Staking for Roads, Bridges and Sewers. Responsible for sales and marketing, GIS project management. Purchased the company from retiring owners in 1997.

Kimberly Myers

GIS Coordinator

- ◆ Coordinates all activities from production staff to Project Liaison and Project Manager.
- ◆ Manages QC/QA for NG9-1-1 deliverables.
- ◆ Technical trainer on GIS processes and tools.
- ◆ Trainer and trouble shooter for synchronization of GIS data and MSAG & TN/Ali using the Intrado NG9-1-1 Net System and Century Link Web DBMS for PSAP system.
- ◆ Developer of customized GIS tools and scripts.
- ◆ Contact for technical support on websites.
- ◆ Website design and workflow developer.
- ◆ Database and ArcGIS Server manager.
- ◆ Customer Service Liaison for many of R&S Digital’s projects.

PROJECT EXPERIENCE

NG9-1-1 Remediation QA/QC; 2014-2016 – Performed final quality checks on NG9-1-1 data prior to submission. Average submittal percentage for entire Kansas NG9-1-1 project was 98%.

Coordinator for geospatial call routing conversion; on going–

Coordinates with the state, PSAP clients & telephone companies to resolve outstanding discrepancies between MSAG/TN system and GIS data. Achieved the Kansas’ first 100% accuracy during centerline to geoMsag conversion.

EMPLOYMENT HISTORY

- | | | |
|-----------------------------|------------------------|----------------|
| ◆ R&S Digital Services Inc. | GIS Coordinator | 2014 – present |
| ◆ Prairie View Inc. | PRTF Case Manager | 2011 - 2014 |
| ◆ Wichita Area MPO | Transportation Analyst | 2008 – 2011 |
| ◆ Graduate Assistant | University of Montana | 2006 – 2007 |

EDUCATION

- ◆ M.A., Geography/GIS, University of Montana, 2007
- ◆ B.A. English, University of Kansas, 2001

PUBLICATION/PRESENTATIONS/SEMINARS

- ◆ Member of Gamma Theta Upsilon – Geographical Honor Society
- ◆ Recipient of writing award from University of Kansas English Department
- ◆ Author of “Food Supply Chains and Food-Miles: An Analysis for Selected Conventional, Non-Local Organic and Other-alternative Foods Sold in Missoula Montana”, July 21 2009
- ◆ Long Range Transportation Plan (2030)
 - Multiple presentations to City Councils in Sedgwick County, KS, other governmental organizations and public forums
 - Hosted and organized public meetings

BRUCE HARDESTY

Project Liaison

- ◆ Assistant Project Manager and Sales for over 110 county/State projects in Kansas.
- ◆ Project Liaison for NG9-1-1 Remediation
- ◆ Planned GPS ground control for Aerial Photography and data acquisition for both E9-1-1 projects and Cadastral projects
- ◆ Project Liaison services and customer support for cadastral mapping projects.
- ◆ Project Technician for 5 years
- ◆ 16 years' experience customer support.
- ◆ Software GIS ESRI, Intergraph, Leica ERDAS, Bentley, AutoCad, LizardTech, Adobe, and Microsoft.

EDUCATION

- ◆ Associate in Surveying and GIS, Kansas State University, Salina, Ks., 1998

REGISTRATIONS AND CERTIFICATIONS

- ◆ Past President Kansas Association of Mappers

PUBLICATION/EDUCATION/SEMINARS

- ◆ Intergraph Training
- ◆ ESRI ArcGis Training

PROJECT EXPERIENCE

NG9-1-1 Remediation project. Coordinates all contacts between PSAPS and R&S production staff throughout remediation process. Facilitates delivery of all data to local PSAPs and provides technical support to the dispatch centers for uploading and integration of the data sets.

Enhanced 9-1-1, Kansas Governor Grant Program; 30 plus Kansas Counties; 2005–2011. Sales and field representative for R&S. Was instrumental in signing and supporting existing E9-1-1 clients

Data Cadastral Automation, 30 plus Kansas Counties; 2005–2011. Work performed included acquiring County Mylar Tax maps, CAMA Database, Orion Database and Aerial Photography. Provided project management services for projects that included Ag Landuse Conversion utilizing current NAIP photography to analyze and update current agriculture land delineation. SSURGO soils were overlaid with the Parcel and Ag Use layers to allow for accurate updated acreage calculations to be generated. As a result the Counties were able to stop maintaining their manual mapping of the Mylar Tax maps and utilize the project for enhanced analysis.

GIS Technician 1999-2005 -Worked on multiple projects as a GIS Technicians. Trained on all software platforms in use at R&S and provided assistance with training for new employees. Was responsible for integration of datasets into contiguous a GIS data design. Provided on-site delivery of datasets to our client base and assisted with support.

PENI LOFLAND

Technical Supervisor

- ◆ Supervises NG9-1-1 personnel technicians Web-Maintenance and special projects.
- ◆ 10 years of experience at R&S
- ◆ Assists in maintenance of ArcGis Server.
- ◆ Coordinates with clients for parcel updates.
- ◆ Generates custom maps as requested by clients
- ◆ Software ESRI, Intergraph, Leica ERDAS, Bentley, AutoCad, LizardTech, Adobe, and Microsoft.

EDUCATION

- ◆ Associate in Graphic Design,
Barton County Community College

PUBLICATION/EDUCATION/SEMINARS

- ◆ Intergraph Training
- ◆ ESRI ArcGis Training
- ◆ SDE & ArcGis Server

PROJECT EXPERIENCE

NG9-1-1 Remediation supervisor; 2013-2016 – Assisted in the design of quality checks and supervised production staff through all phases of the remediation process. Oversaw the submittal process with an average submittal percentage of 98%.

E-911 Maintenance and Cadastral Maintenance; 2005–2015 - Is responsible for all facets of parcel and 9-1-1 maintenance and reporting. Maintains SDE database and project files on ArcServer.

Analytical Services – Responsible for the analytical service request from our web-based clients and provides on going customer support to our maintenance customers.

VIII. TECHNICAL APPROACH

1. Understanding of the project requirements

R&S Digital has been providing E-911 and NG9-1-1 GIS services for the past 16 years with extensive experience working with PSAPs, County and State Governments as well as telephone companies and vendors whom maintain the current call routing MSAG and TN/Ali databases. R&S has developed a reputation for providing products that are fully synchronized between all vital components of the dispatch system including the Centerlines, ESZ boundaries, Emergency Service Boundaries, political boundaries, MSAG, Address Points and TN/Ali. Through our experience we have created internal quality controls specific for NG9-1-1 GIS data checks that will be an immense asset for the Nebraska QA/QC project.

R&S Digital understands the critical importance of GIS data in the NG9-1-1 world as dispatch systems move towards geospatial call routing. The importance of clean data sets for geospatial call routing systems to function properly and efficiently cannot be understated. Through our experience we have become very familiar with the NENA standards required for this project and have extensively reviewed the NITC standards, both of which will be used as guidance to perform checks to verify accuracy of the data. Our knowledge and unique skill set are invaluable to fulfilling the following requirements of this project:

- **Portal:** A web Portal will be provided with limited access controlled by set logins and passwords for authentication verification.
 - The Portal will be able to accept zipped data in any ESRI format, although R&S does recommend that the data be submitted in a file geodatabase.
 - The Portal will perform an initial check for schema compliance and that all required data is present. The initial check will generate a report with noncompliance issues listed that is emailed immediately to the user if the schema does not comply or if data is missing. A message will be generated that data has passed on for QC/QA if the schema passes and all data is present.
 - The Portal will have a page with Frequently Asked Questions and answers as well as a link to a User Guide.
- **Training:** R&S will coordinate with the Commission to determine the appropriate number of trainings and locations for PSAP, maintenance vendors and designated Commission personnel that need to be held across the state. Training will focus on the QA/QC process, navigating the portal and understanding the Discrepancy Report.
- **QA/QC checks:** Using NITC & NENA standards as guidance, the QA/QC checks will be a combination of custom tools, scripts, and technician overview to identify discrepancies, errors and general noncompliance with the standards. The checks performed are discussed further in Proposed Development Approach.
- **Discrepancy Reports:** Discrepancy reports will be generated for all data once QA/QC checks are complete. The report will present an overview of the checks, quantify the number of errors, as well as an accuracy percentage calculated from the number of errors to number of features checked. Separate tabs for each feature will include a list of the errors and the corresponding

Unique ID of the record with the error. This report will be forwarded to the PSAP, maintenance vendor and the Commission's GIS Specialist. A file geodatabase will also be returned with the Discrepancy Report that contains topology errors and relationship tables for Centerline and Address Point errors.

- **Compliance Reports:** R&S will generate a compliance report once the data has passed applicable NITC & NENA standards and submit the compliance report to the PSAP & the PSC's GIS Specialist. The compliance report is currently organized similar to the overview in the Discrepancy Report with additional comments regarding the data being ready for inclusion into the GIS Repository and any other pertinent information R&S Digital in conjunction with the PSC GIS Specialist deem necessary.
- **Monthly Reports to the Commission:** R&S Digital will maintain a report that tracks the progress the QA/QC process and provide the report to the Commission's GIS Specialist monthly. This report will be organized by PSAP and include data received, date received, whether the data has been standardized, actions, QC/QA start date, progress of QC/QA, results of completed QC/QA, and date Discrepancy Report sent.
- **Customer Service:** R&S Digital places customer service as a high priority and is a key factor in our business success throughout the years. We anticipate working closely with the Commission and the Commission's GIS Specialist to help the project move forward in an efficient and timely manner as well as discuss any issues that may arise during the process. The R&S Digital Project Coordinate will serve as the primary contact during the QA/QC project and will be available via phone or email to answer any questions the Commission, PSAPs or maintenance vendors may have regarding the QA/QC process or the Portal.

The time frame for completion of this project is dependent on the response of the PSAPs or maintenance vendors in submitting all the required data in a timely manner at the start of the project as well subsequent resubmissions with corrections. R&S will keep an open dialog with the Commission's GIS Specialist on the progress of submissions as required in the RFP and be proactive in sending periodic reminders to PSAP and maintenance vendors to upload GIS data.

2. Proposed Development Approach

R&S Digital has many custom tools and scripts to perform quality checks on NG9-1-1 data that have been modified to run against Nebraska data. We were able to obtain some of the data from three Nebraska Counties to test these tools. We do know from processing the three counties that uniformity between data sets and the NITC and NENA standards is not present. We anticipate that the tools and scripts will need to be further modified based on the NITC schema for Centerlines and Address Points.

R&S Digital recommends a Template file geodatabase be created that PSAP's and maintenance vendors can use to ensure compliance with NITC & NENA schema standards including domains, standardized attribute names and required metadata that can be prepopulated. The use of a template file geodatabase can ensure successful data upload to the Portal and quicker turnaround time for the quality checks. If the Commission determines this beneficial, R&S can assist with the creation of a template.

R&S is aware that only approximately 1/3rd of the counties currently have address points in various stages of development. R&S proposes that an initial quality check can be performed on the data without the address points present. We believe this can help keep the project moving forward and allow PSAPs and vendors to review and fix errors in the initial data in conjunction with acquiring address point data.

We have allowed for a degree of flexibility within our Methodology and Development to allow for conceivable changes the State of Nebraska would like to implement. Below is table which identifies key development and action steps that we have identified for the project.

A. Development Approach and Action Plan

Action Items	Item Description	Start Date	Completion Date
Web Portal	Create login ID's and passwords for authorized users based on authorized list provided by the PSC (ID's and passwords can be added/deleted and changed throughout the course of this project)	October 9, 2018	October 12, 2018
User Guide & Frequently Asked Questions	R&S will create a user guide and post guide on the portal. The guide will provide information on the general QA/QC process, tips for navigating the portal, tips on reading and understanding the Discrepancy Reports, and tips on how to resolve discrepancies (it is intended that this will be a living document and updated as more questions arise)	October 9, 2018	October 12, 2018
NG9-1-1 Geodatabase Template	R&S can assist in the creation of a standardized NG9-1-1 geodatabase template to house all the required NG9-1-1 data, that complies with the NITC & NENA schema standards and has the required set domains, if the Commission determines this as a helpful step	October 15, 2018	October 26, 2018
Kick-off Meetings	Meetings to be scheduled for 3 days: 2 days with PSC and 1 day for PSAPs and maintenance vendors. Meetings will provide a platform for R&S to explain our procedures and make any modifications to procedures prior to beginning the QA/QC process	November 6, 2018	November 8, 2018

Initial Submittal Request via email	R&S will send an email notifying vendors and maintainers of the opening of the Web Portal and request for first submissions. R&S will coordinate with the PSC to determine if this should be done by region	November 9, 2018	--
Training	Hold trainings across the state for PSAPs & maintenance vendors to review the QA/QC process, the Portal and understanding Discrepancy Reports. R&S will coordinate with the Commission to determine the timing and location of these trainings	TBD	TBD
Monthly Reports to Commission	Monthly reports will be sent to the Commission's GIS Specialist the 1 st of every month through the end of the project.	December 1, 2018	October 1, 2020
Standardization Checks	Initial submittals to the portal will be checked for database schema and domain compliance. PSAP and/or maintenance vendor will be notified if the data does not pass the standardization checks and informed of the causes for the noncompliance. Data that passes the standardization checks will be passed on to QA/QC Review	November 9, 2018	November 1, 2019
QA/QC Review for Topology Errors	R&S Digital will begin the QA/QC process for each PSAPs data set with performing a topology check and generating a topology report which will be included in the Discrepancy Report	November 13, 2018	September 1, 2020
QA/QC Attribute Checks	Custom tools and scripts will be used to check that attributes comply with NITC and NENA standards and when the data is ready for inclusion in the Commission's GIS Repository	November 13, 2018	September 1, 2020
Centerline to MSAG and TN/Ali Comparisons	Custom tools, scripts and manual verification will be used to compare Centerline to MSAG and TN/Ali to identify discrepancies and determine when the data meets the 98% accuracy threshold	November 13, 2018	September 1, 2020

Address Points and TN/Ali Comparisons	Custom tools and scripts will be used to compare Address Points to TN/Ali addresses to identify discrepancies and determine when data meets the 98% accuracy threshold	November 13, 2018	September 1, 2020
Discrepancy Reports	Discrepancy reports listing the checks performed by feature, the accuracy percentage by feature and a listing of the features with errors will be generated after topology and all QA/QC checks are performed. These reports will be forwarded to the PSAP, maintenance vendor and the Commission's GIS Specialist. The PSAP and maintenance vendors will also receive a file geodatabase with topology and relationship tables will be forwards to the PSAP, maintenance vendor	November 13, 2018	September 1, 2020
Compliance Reports	Once the QA/QC process identifies that the data meets the requirements set out in this RFP, a Compliance Report will be generated and sent to the Commission's GIS Specialist, PSAP & maintenance vendor	November 13, 2018	September 1, 2020
Statewide Checks	Once a set on contiguous counties (or regions) pass the compliance standard, R&S Digital will check for overlaps & gaps between neighboring counties, check for stacked roads, check for inconsistent road names between counties, and check for duplicate ESZs across PSAPs. Affected PSAPs and the Commission's GIS Specialist will be informed of any errors that are identified during this process	November 13, 2019	September 1, 2020

3. Technical Requirements

R&S Digital has the tools and technology required to perform the QA/QC process and verify that the submitted data meets the threshold requirements set by NENA and NITC. R&S has identified a process to perform checks on the data, create reports, keep track of data submissions and the results, and maintain communication with the PSC, PSAPs and maintenance vendors. Below is the listing of the checks we propose to perform in order to fulfill all the technical requirements of the RPF.

- A. **QC/QA Methods:** R&S will utilize a suite of tools that have proven reliable with our experience working with 911 GIS data. The tools will be a combination of ESRI tools, python scrips and VB based coding. The tools are flexible enough to accommodate a wide variety of visual representations of the errors. The following identifies more specific information regarding the checks we will perform on each feature:
1. **Street Centerlines comparison to MSAG:** R&S has created a workflow along with custom scripts that will check the relationship of the Centerline to the MSAG and the MSAG to Centerline. The checks will identify Centerlines that do not have an MSAG record, MSAG records that do not match any centerlines and range issues between records with matching name, community & ESN.
 - a. R&S has extensive experience in identifying and fixing discrepancies between the centerlines and MSAGs and knows this can be a confusing and daunting task. R&S will help provide guidance to the Commission’s GIS Specialist to help answer questions on how to resolve problematic discrepancies that might arise. R&S will also include in the Frequently Asked Questions information posted on the Portal common causes that result in discrepancies and guidance on resolving discrepancies.
 2. **Street Centerlines comparison to TN/Ali addresses:** R&S has created a workflow using geocoding and other comparison scripts to check the relationship of the Centerline to TN/Ali addresses. We will provide a table of TN/Ali addresses that do not fit in existing ranges of the centerlines.
 - a. R&S will include in the Frequently Asked Questions information posted to the Portal common causes that result in a TN/Ali address error (for example: no range to cover address, name of centerline does not exist, community mismatch, etc.).
 3. **Misalignments:** R&S has created a list of topology rules that comply with NENA GIS Data Collection & Maintenance Standards. The topology errors will be presented in a separate tab in the Discrepancy report and will be expected to be clean of errors (except for those that are exceptions) before R&S confirms the data is ready for inclusion in the Commission’s GIS Repository. The topology checks and rules will also be included in the file geodatabase that R&S will return to the PSAP or maintenance vendor. Topology checks that will be performed on all uploaded data include the following:
 - a. Check for gaps or overlaps in all polygon features (ESZ, Emergency Service Boundaries & political boundaries)
 - b. Check to ensure all ESZ, Emergency Service Boundaries and political boundaries are within the PSAP boundary

- c. Check for overhangs or where centerlines cross (are not split) at polygon boundaries
- d.Centerlines that intersect or overlap themselves
- e.Centerlines that are not split where two or more cross paths
- f. Centerlines that have dangles and are not exceptions to dangles (exception examples include dead-end streets and cul-de-sacs)

4. **Attribute checks:** R&S has customized ESRI tools and created scripts to run checks on attributes to verify that the attributes meet the minimum requirements as set by NITC & NENA standards. Each attribute check will be listed by feature in the Discrepancy Report and each error referenced by its Unique ID. The following is a list of the attribute checks R&S proposes to perform on the data:

a.All Features:

- Check for duplicate features
- Unique Id's are populated, do not contain NULL values and are indeed unique
- Verification that all mandatory fields required by NITC & NENA are present and populated
- Check that all required metadata is present

b.Centerlines:

- ESZ attributes of the centerline are correct
- Identification of centerline segments running in wrong directions (checked by high/low ranges on left and right)
- Identification of other range issues such as overlaps & gaps, duplicate ranges & parity mismatches
- Name consistency for Centerlines will be checked by identifying records where the label does not match the concatenated individual attributes that should make up the label. It is important to note that the Centerline to MSAG check and Centerline to TN/Ali will also help identify areas of name inconsistencies

c. Address Points:

- ESZ attributes of Address Point are correct
- Duplicate addresses (addresses with same labels)
- Name consistency for Address points will be checked by identifying records where the label does not match the concatenated individual attributes that should make up the label. It is important to note that the Address points to TN/Ali check will also help identify areas of name inconsistencies.
- Multi-address formats are consistent with USPS standards
- Address point placement in correspondence to centerline ranges

5. **Statewide checks:** R&S Digital will use a combination of topological checks and custom tools and scripts to identify compatibility issues between adjoining counties.

a. County boundaries alignment to neighboring counties: We recommend that alignment checks between counties be accomplished by regions that have met the general compliance standard (98%). This approach will provide an efficient method for determining and tracking the errors. Once contiguous counties/regions have passed compliance standards, R&S will identify:

- Overlaps or gaps of polygon features
- Stacked roads and inconsistent roads names between counties
- Check that ESZs are not duplicated across PSAPs

R&S will inform the affected counties and PSC GIS Specialist of any issues.

B. **QA/QC Reports:** R&S will create all necessary reports for the project including Discrepancy Reports, Monthly reports to the Commission, and Compliance Reports.

1. **Discrepancy Reports:** R&S Digital will create Discrepancy reports for all checked data and deliver those reports to the PSAP, appropriate vendor and PSC's GIS Specialist. R&S will also return a file geodatabase to the PSAP or maintenance vendor that will contain all the data submitted, topology files and relationship tables. The topo file and relationship tables will enhance the ability of the PSAPs and maintenance vendors to identify and zoom to the errors for correction. We look forward to the oral presentations so we can demonstrate to the Evaluation Committee how these tools and reports work.

I.

2. **Monthly Reports:** R&S will keep an on-going record of data submissions by PSAP which include data submitted, data currently under QA/QC review, results of all reviews by PSAP, and record of data by PSAP which have been determined to be in compliance with NITC and NENA standards.

II.

3. **Compliance Reports:** R&S will generate a Compliance Report once the data has passed applicable NITC & NENA standards and submit the report to the Commission's GIS Specialist, the PSAP and maintenance vendor. The Compliance Report will contain a list of all the checks performed, the accuracy percentage of the checks, a note that the data has been accepted for inclusion in the Commission's GIS Repository and any other pertinent notes for the PSAP.

4. Contractor requirements

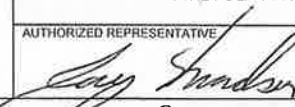
The contracting obligations for the project as identified in this Technical Approach will be fulfilled in entirety by R&S Digital.

5. Deliverables

- Discrepancy Reports
- File geodatabase of checked data with topology errors and relationship tables with Centerline and Address Point Errors
- Monthly Reports to the Commission
- Compliance Reports

IX. APPENDIX

Figure 26: Certificate of Liability Insurance 2017-2018

ACORD®		CERTIFICATE OF LIABILITY INSURANCE		DATE (MM/DD/YYYY) 08/02/2018			
<p>THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.</p> <p>IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).</p>							
PRODUCER Rhonda Knudson Agency, Inc. Po Box 287 Great Bend, KS 67530 (620) 792-3643 (046/653)			CONTACT NAME: Rhonda Knudson Agency, Inc. PHONE: (620) 792-3643 A/C No. Ext.: FAX (855) 438-6510 E-MAIL ADDRESS: RKNUDSON@amfam.com		INSURER(S) AFFORDING COVERAGE INSURER A: American Family Mutual Insurance Company, S.I. 19275 INSURER B: INSURER C: INSURER D: INSURER E: INSURER F:		
INSURED R & S Digital Services, Inc. 7204 N West Rd Newton, KS 67114							
COVERAGES		CERTIFICATE NUMBER:		REVISION NUMBER:			
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.							
INSR LTR	TYPE OF INSURANCE	ADOL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			15-X14633-19	08/18/2017	08/18/2018	BODILY INJURY (Per person) \$ 1,000,000 BODILY INJURY (Per accident) \$ 1,000,000 PROPERTY DAMAGE (Per accident) \$ 1,000,000 BODILY INJURY \$
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER		Y	15-X14633-17	08/18/2017	08/18/2018	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 1,000,000 PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	15-X14633-96	08/18/2017	08/18/2018	<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 500,000 E.L. DISEASE - EA EMPLOYEE \$ 500,000 E.L. DISEASE - POLICY LIMIT \$ 500,000
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)							
CERTIFICATE HOLDER				CANCELLATION			
				SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.			
				AUTHORIZED REPRESENTATIVE 			

ACORD 25 (2014/01)

The ACORD name and logo are registered marks of ACORD © 1988-2014 ACORD CORPORATION. All rights reserved.

Figure 27: Certificate of Liability Insurance 2018-2019



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
08/02/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Rhonda Knudson Agency, Inc. Po Box 287 Great Bend, KS 67530 (620) 792-3643 (046/653)	CONTACT NAME: Rhonda Knudson Agency, Inc. PHONE (Ac. No. Ext): (620) 792-3643 FAX (Ac. No.): (855) 438-6510 E-MAIL ADDRESS: RKNUDSON@amfam.com														
INSURED R & S Digital Services, Inc 7204 N West Rd Newton, KS 67114	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">INSURER(S) AFFORDING COVERAGE</th> <th style="text-align: left;">NAIC #</th> </tr> <tr> <td>INSURER A : American Family Mutual Insurance Company, S.I.</td> <td>19275</td> </tr> <tr> <td>INSURER B :</td> <td></td> </tr> <tr> <td>INSURER C :</td> <td></td> </tr> <tr> <td>INSURER D :</td> <td></td> </tr> <tr> <td>INSURER E :</td> <td></td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A : American Family Mutual Insurance Company, S.I.	19275	INSURER B :		INSURER C :		INSURER D :		INSURER E :		INSURER F :	
INSURER(S) AFFORDING COVERAGE	NAIC #														
INSURER A : American Family Mutual Insurance Company, S.I.	19275														
INSURER B :															
INSURER C :															
INSURER D :															
INSURER E :															
INSURER F :															

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/>			15-X14633-19	08/18/2018	08/18/2019	BODILY INJURY (Per person) \$ 1,000,000 BODILY INJURY (Per accident) \$ 1,000,000 PROPERTY DAMAGE (Per accident) \$ 1,000,000 BODILY INJURY \$ \$
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER		Y	15-X14633-17	08/18/2018	08/18/2019	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 1,000,000 PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	15-X14633-96	08/18/2018	08/18/2019	<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 500,000 E.L. DISEASE - EA EMPLOYEE \$ 500,000 E.L. DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
---------------------------	--

Figure 28: Cyber Security Insurance, Page 1

The Hartford Steam Boiler Inspection and Insurance Company

**HSB Total Cyber™
Quotation**

Presented by	
Named Insured	R&S Digital Services Inc
Quotation Issue Date	
Quotation Expiration Date	30 days from issuance
Effective Date	10/01/2018
Retroactive Date	The retroactive date is the organization date of the Named Insured
Cyber Risk Annual Aggregate Policy Limit	Equal to the Highest Coverage-Specific Limit

This insurance quotation is for the HSB Total Cyber™ Cyber Risk Coverage Form and optional additional insurance coverage endorsements. This quotation is based upon information on file with us as of the issue date. It is subject to adjustment or rescission should any information on file change. There is no insurance in effect as a result of the issuance of this document. An order of acceptance must be received by us prior to the Quotation Expiration Date of this quote for the insurance to be effective. Our offer to insure the captioned account will be considered null and void and is rescinded on the date indicated as the Quotation Expiration Date unless an order of acceptance is received by us prior to such date. Thank you for the opportunity to provide you with a quote for this account. We appreciate your business.

COVERAGES

1. Data Compromise Response Expenses (Annual Aggregate Limit)	\$1,000,000
Crisis Management Sublimit	\$500,000
(Any one "Personal Data Compromise")	
Regulatory Fines and Penalties Sublimit	\$500,000
(Any one "Personal Data Compromise")	
PCI Fines and Penalties Sublimit	\$500,000
(Any one "Personal Data Compromise")	
Deductible (Any one "Personal Data Compromise")	\$10,000
2. Identity Recovery (Annual Aggregate Limit)	\$25,000
Lost Wages and Child and Elder Care Sublimit	\$5,000
Mental Health Counseling Sublimit	\$1,000
Miscellaneous Unnamed Costs Sublimit	\$1,000
Deductible	N/A
3. Computer Attack (Annual Aggregate Limit)	\$1,000,000
Data Re-creation Sublimit (Any one "Computer Attack")	\$50,000
Loss of Business Sublimit (Including Contingent Loss of Business)	\$500,000
(Any one "Computer Attack")	
Crisis Management Sublimit (Any one "Computer Attack")	\$500,000
Deductible (Any one "Computer Attack")	\$10,000
4. Cyber Extortion (Annual Aggregate Limit)	\$1,000,000
Deductible (Any one "Cyber Extortion Threat")	\$10,000
5. Data Compromise Liability (Annual Aggregate Limit)	\$1,000,000
Deductible (Any one "Claim" or "Regulatory Proceeding")	\$10,000
6. Network Security Liability (Annual Aggregate Limit)	\$1,000,000
Deductible (Any one "Claim")	\$10,000
7. Electronic Media Liability (Annual Aggregate Limit)	\$1,000,000
Deductible (Any one "Claim")	\$10,000
8. Misdirected Payment Fraud (Annual Aggregate Limit)	\$250,000
Deductible (Any one "Wrongful Transfer Event")	\$10,000

** - Tax rates are provisional and will be finalized at time of invoicing

The Hartford Steam Boiler Inspection and Insurance Company

HSB Total Cyber™ Quotation

COVERAGE HIGHLIGHTS

Coverage 1: Data Compromise Response Expenses – covers expenses incurred as the result of the breach of personal information in the custody of the insured or a third-party with whom the insured has a direct relationship. This includes expenses for forensic IT review to determine the nature and extent of the breach, costs to obtain professional legal advice, expenses to notify affected individuals whose information was compromised, cost of services to inform and assist affected individuals in restoring their identity, the cost of professional public relation services to retain the insured's relationship with affected individuals, coverage for the cost of fines or penalties under state or Federal law, and the cost of payment card industry fines or penalties imposed under contract to which the insured is a party.

Coverage 2: Identity Recovery – protects the interests of a key owner of the insured or the spouse of a key owner who become an identity fraud victim. The coverage combines identity theft insurance with services that help victims restore their credit history and identity records to pre-theft status. Coverage reimburses victims for legal expenses, lost wages, child and elder care expenses and miscellaneous fees incurred in resolving problems resulting from identity theft. Includes services such as a toll-free help line and case management assistance to help victims in correcting credit history and identity records.

Coverage 3: Computer Attack – pays for the costs associated with restoring computers and recovering or recreating lost or corrupted data as a result of the insured's discovery of a virus or other computer attack on the insured's devices or network that damages data, software and systems. Includes coverages for restoration of electronic data, recreation of non-electronic data, expenses to restore computer systems to pre-attack functionality, business income loss and extra expenses incurred during the time needed for system and data recovery and restoration, and professional public relations services for assistance in communicating with outside parties concerning the computer attack and the insured's response.

Coverage 4: Cyber Extortion – provides coverage for the cost of an investigator retained in connection with an extortion threat and coverage for any amount paid by the insured in response to the insured's receipt of a demand for money based on a threat to attack the insured's system, gain access to or release sensitive information (including personally identifying information), or make an unauthorized transfer of funds.

Coverage 5: Data Compromise Liability – protects against third-party liabilities the insured might have as a result of a data breach that results in the insured's receipt of a claim, suit or regulatory proceeding, such as a state attorney general suit or order, based on a breach of personal information covered under Coverage 1, Data Compromise Response Expenses. Provides coverage for defense costs (within the coverage limit) and settlement costs.

Coverage 6: Network Security Liability – pays for costs resulting from the insured's receipt of a claim or suit alleging that a negligent failure of the insured's computer security that allowed one of the following to occur: the breach of business data proprietary to the third party; the unintended propagation of malware to the third party; a denial of service attack against the third party in which the insured unintentionally participated; or the inability of an authorized third party to access the insured's system. Includes coverage for defense costs (within the coverage limit) and settlement costs.

Coverage 7: Electronic Media Liability – provides liability coverage as the result of the insured's receipt of a claim or suit alleging that the display of electronic information by the insured on a website resulted in the infringement of another's copyright, title, slogan, trademark, trade name, trade dress, service mark or service name; defamation against a person or organization; a violation of a person's right of privacy; or interference with a person's right of publicity. Liability coverages are provided on a claims-made basis and include defense costs (within the coverage limit) and settlement costs.


Coverage 8: Misdirected Payment Fraud – provides coverage for funds lost by the insured as the result of a criminal deception of the insured or the insured's financial institution to induce the insured or the financial institution to send money or divert a payment to a fraudulent destination.

United States Citizenship Attestation Form

For the purpose of complying with Neb. Rev. Stat. §§ 4-108 through 4-114, I attest as follows:

<input checked="" type="checkbox"/> I am a citizen of the United States.
— OR —
<input type="checkbox"/> I am a qualified alien under the federal Immigration and Nationality Act, my immigration status and alien number are as follows: _____, and I agree to provide a copy of my USCIS documentation upon request.

I hereby attest that my response and the information provided on this form and any related application for public benefits are true, complete, and accurate and I understand that this information may be used to verify my lawful presence in the United States.

PRINT NAME	<u>Bruce Allen Schweider</u> <small>(first, middle, last)</small>
SIGNATURE	<u></u>
DATE	<u>08-04-2018</u>