

CONTRACT


FOR

ENGINEERING SERVICES

BETWEEN

SEDGWICK COUNTY, KANSAS

AND

 **MKEC ENGINEERING CONSULTANTS, INC.**
411 North Webb Road
Wichita, Kansas 67206

**BRIDGE DESIGN SERVICES
2012 CAPITAL IMPROVEMENT PROGRAM
STRUCTURE NUMBER B454**

THIS CONTRACT, made this _____ day of _____, 2012, by and between the SEDGWICK COUNTY, KANSAS, party of the first part, hereinafter called the "COUNTY" and MKEC ENGINEERING CONSULTANTS, INC., Wichita, Kansas, party of the second part, hereinafter called the "CONSULTANT".

WITNESSETH: That

WHEREAS the COUNTY intends to replace the existing bridge number 624-6-455 (Structure No. B454) located on 23rd Street South between 311th Street West and 327th Street West. In addition to the new structure, the proposed improvements will include all necessary roadway and road ditch improvements to accommodate the new structure without making significant changes to the existing roadway system. Minor modifications to the existing stream channel will be necessary given the skewed stream path in relation to the roadway.

All of the aforesaid being located within the COUNTY, and hereinafter call the "PROJECT"; and,

WHEREAS, the COUNTY is authorized by law to employ Consulting Engineers to assist in the plans, supplemental specifications and the estimates of quantities of work for the PROJECT;

NOW, THEREFORE, the parties hereto do mutually agree as follows:

I. SCOPE OF SERVICES

The CONSULTANT shall furnish engineering services as required for the development of plans, supplemental specifications and estimates of the quantities of work for the PROJECT, including the following items: soils report, survey and design engineering, drainage hydrology, grading, paving and seeding design, traffic control, ROW easement, utility coordination, Local, state, and federal permit application, special provision specifications, and shop drawing review. There will be no KDOT review process. It is anticipated that the structure will be a multicell RCBB (See Exhibit 'C' for the complete Scope of Services).

A. PHASE 1 - PLAN DEVELOPMENT

When authorized by the COUNTY, CONSULTANTS shall proceed with developments of plans for the PROJECT based on the preliminary design concepts approved by the COUNTY.

1. Field Surveys. Provide engineering and technical personnel and equipment to obtain survey data as required for the engineering design.
2. Prepare engineering plans, plan quantities and supplemental specifications as required based on the following design considerations:
 - a. The project will be designed in accordance with the Sedgwick County Public Works Design Requirements and Scope of Services for CIP Project No. B454 as provided in Exhibit C, attached.
 - b. A concept design phase will be implemented to examine project construction options. It is our intention to use a multicell RCBB. A hydraulic analysis and preliminary structural design will be performed on each structure as part of the concept phase. MKEC will follow the Sedgwick County schedule. Final plans completed by December 2012 and construction in 2013.
 - c. The design will provide the proper guard rail and signing at each approach. In addition, the proposed structure will have a width that conforms to KDOT's Project Development Manual for Non-National Highway System Local Government Road and Street Projects.
 - d. If an RCB is selected in the concept phase, the proposed structure will be designed with the bottom of the box buried approximately 6-inches below the existing channel bottom to preserve the natural stream bottom through the structure. In doing so, the exposed portion of the structure opening will provide the required hydraulics.
 - e. Roadway grading will be kept to an absolute minimum. Proposed roadway profiles will be kept virtually identical with the existing roadway grades.
 - f. Hydrologic and hydraulic waterway assessments will be performed as noted above. Calculations and results will be submitted in report form to the County for review and comment.
 - g. All stormwater runoff shall be calculated and managed in accordance with the City of Wichita/Sedgwick County Storm Water Manual.
 - h. Permit applications, to appropriate regulatory agencies will be prepared and submitted as required to local agencies, DWR, and Corp of Engineers. It is anticipated that the Corp will permit based on NAV Permit 14 which allows for roadway improvements with minimal impact to jurisdictional waters. The DWR permit will be the standard Stream Obstruction Permit. Consultant to prepare Notice of Intent Permit for submission to KDHE.
 - i. Consultant acknowledges that if R/W acquisition is necessary work items will meet the requirements of Section 2.4 of the Design Requirements and Scope of Services (Exhibit C, attached) at no additional cost to the County.
 - j. Utility coordination will begin at the onset of design and will continue throughout the concept and plan preparation phases to eliminate utility company delays prior to construction.
 - k. Lidar survey data available from Sedgwick County and the City of Wichita will be utilized to perform design, particularly for verifying hydraulics through the bridge. Consultant plans on surveying the ditch and road

profiles on each bridge so as to match more accurately into the existing conditions. Survey will include locating section corners on the road alignment but will not locate them off alignment – i.e. center of sections.

- I. Geotechnical design will meet KDOT BLP for boxes and bridges.
 - m. The design will be based on all roads being closed to traffic during construction.
3. Identify all known potential utility conflicts and present recommended solutions to such conflicts and, when authorized by the COUNTY, provide prints of plans to each utility identifying the problem locations. CONSULTANT shall meet with utility company representatives as required to review the PROJECT design and interpret engineering drawings.
4. Submit drawings associated with this project:
- a. In the latest version of AutoCAD DWG format, per Section 1.18 of the Design Requirements and Scope of Services (Exhibit C, attached).
 - b. All entities will be created BYLAYER, with color and linetype BYLAYER. A discerning method of layer naming will be used.
 - c. Any referenced information external to the drawing (cells, blocks, xrefs, shapes, or non-standard fonts) will be included.
 - d. Any coordinate information (Point number, Northing, Easting, Elevation and Description) will be included as point blocks within the drawings, AutoDesk Land Desktop AEC Point Objects or as a delimited ASCII file.
 - e. Drawings will be submitted on CD-ROM medium. The Medium will be labeled with the Sedgwick County project number, project year and vendor name. The submission will include the number of CD-ROMs and total submitted, e.g., 1 of 4, 2 of 4, etc.

B. PHASE II - CONSTRUCTION PHASE SERVICES

Provide guidance in the proper interpretation of the contract documents through consultation with the COUNTY.

II. IN ADDITION, THE CONSULTANT AGREES

- A. To provide the various technical and professional services, equipment, material and transportation to perform the tasks as outlined in SCOPE OF SERVICES.
- B. To attend meetings with the COUNTY and other local, state and federal agencies as necessitated by the PROJECT.
- C. To make available during regular office hours at its Wichita office, all calculations, sketches and drawings such as the COUNTY may wish to examine periodically during performance of this agreement.
- D. To deliver to the COUNTY, all pertinent drawings and documents for the PROJECT, all of such documents to become the property of the COUNTY. Submission shall be per Section 1.17 and 2.7.3.5 of the Design Requirements and Scope of Services (Exhibit C, attached).
- E. To submit to the COUNTY an ENGINEER's estimate of the quantities of work units for the PROJECT incorporating all items of work included in the plans.

- F. To comply with all federal, state and local laws, ordinances and regulations applicable to the work, including Title VI of the Civil Rights Act of 1964, and the nondiscrimination provisions of Exhibit A, attached.
- G. To accept compensation for the work herein described in such amounts and at such periods as hereinafter provided and that such compensation shall be satisfactory and sufficient payment for all work performed, equipment or materials used and services rendered in connection with such work.
- H. To complete and deliver plan tracings, specifications and estimates to the COUNTY within the time allotted for the PROJECT as stipulated below: EXCEPT that the time of completion shall be exclusive of the time required for reviews by the approving parties or delays beyond the control of the CONSULTANT.

Plans, specifications and estimates to be completed within 300 calendar days following the notice to proceed.

- I. CONSULTANT shall procure and maintain such insurance as will protect the CONSULTANT from damages resulting from errors, omissions and negligent acts of the CONSULTANT, its agents, officers, employees and subcontractors in the performance of the professional services rendered under this agreement and for which he is legally liable. Such policy of insurance shall be in an amount not less than \$500,000.00 subject to deductible of \$50,000.00. In addition, a Workman's Compensation and Employer's Liability Policy shall be procured and maintained. This policy shall include an "all state" endorsement. Said insurance policy shall also cover claims for injury, disease or death of employees arising out of and in the course of their employment, which, for any reason, may not fall within the provisions of the Workman's Compensation Law. The liability limit shall be not less than:

Workman's Compensation - Statutory
Employer's Liability - \$500,000 each occurrence

Further, a comprehensive general liability policy shall be procured and maintained by the CONSULTANT that shall be written in a comprehensive form and shall protect CONSULTANT against all claims arising from injuries to persons (other than CONSULTANT's employees) or damage to property of the COUNTY or others arising out of any negligent act or omission of CONSULTANT, its agents, officers, employees or subcontractors in the performance of CONSULTANT services under this agreement. The liability limit shall not be less than \$500,000 per occurrence for bodily injury, death and property damage. Satisfactory Certificates of Insurance shall be filed with the COUNTY prior to the time CONSULTANT starts any work under this agreement. The CONSULTANT shall furnish the COUNTY copies of all insurance policies or certificates of insurance that relate to the insurance policies that must be maintained hereunder. In addition, insurance policies applicable hereto shall contain a provision that provides that the COUNTY shall be given thirty (30) day written notice by the insurance company before such policy is substantially changed or canceled. The CONSULTANT will have its insurance carrier add the COUNTY as an additional insured.

III. THE COUNTY AGREES

- A. To furnish all available data pertaining to the PROJECT now in the COUNTY's office.

- B. To accept SEDGWICK COUNTY's, Design Requirements and Scope of Services (Exhibit C, attached) for this PROJECT.
- C. To pay the CONSULTANT for his services in accordance with the requirements of this agreement.
- D. To provide a right of entry for CONSULTANT's personnel in performing field surveys and inspections.

IV. PAYMENT PROVISIONS

- A. Payment to the CONSULTANT for the performance of the design phase engineering services required by this agreement shall be made on an hourly basis, not to exceed \$48,000.00 (forty eight thousand dollars and no cents).

Hourly rates for this PROJECT shall be as provided in Exhibit B.

- B. During the progress of work covered by this agreement, partial payments may be made to the CONSULTANT at intervals of one calendar month. The progress billings shall be supported by documentation acceptable to the COUNTY which shall include a bar chart or other suitable chart indicating progress on the PROJECT, a record of the time elapsed and the time that remains to complete the work.
- C. The COUNTY shall reimburse the CONSULTANT for the cost of design review fees charged by the COUNTY, if any.
- D. The design fee to the CONSULTANT will include permit review fees charged by regulatory agencies which include the US Army Corps of Engineers, the Kansas Department of Water Resources and the Kansas Department of Health and Environment for NPDES Notice of Intent.
- E. If additional work should be necessary by virtue of a major change in the scope of the proposed PROJECT, the CONSULTANT will be given written notice by the COUNTY along with a request for an estimate of the lump sum fee for performance of such additions; but no additional work shall be performed nor shall additional compensation be paid except on the basis of a supplemental agreement duly entered into by the parties.

V. THE PARTIES HERETO MUTUALLY AGREE

- A. That the right is reserved to the COUNTY to terminate this agreement at any time, upon written notice, in the event the PROJECT is to be abandoned or indefinitely postponed, or because of the CONSULTANT's inability to proceed with the work, or because the services of the CONSULTANT are unsatisfactory; PROVIDED, however, that in any case the CONSULTANT shall be paid the reasonable value of the services rendered up to the time of termination on the basis of the provisions of this agreement, but in no case shall payment be more than the CONSULTANT's actual costs plus a fee for profit based upon a fixed percentage of the CONSULTANT's actual costs.
- B. That the original tracings for the final Engineering Plans and other pertinent drawings and documents pertaining to the PROJECT shall become the property of the COUNTY upon completion or termination of the CONSULTANT's services in accordance with this

agreement; and there shall be no restriction or limitation on their further use by the COUNTY.

- C. That the services to be performed by the CONSULTANT under the terms of this agreement are personal and cannot be assigned, sublet or transferred without specific consent of the COUNTY.
- D. In the event of unavoidable delays in the progress of the work contemplated by this agreement, reasonable extensions in the time allotted for the work will be granted by the COUNTY, provided, however, that the CONSULTANT shall request extensions, in writing giving the reasons therefore.
- E. It is further agreed that this agreement and all contracts entered into under the provisions of this agreement shall be binding upon the parties hereto and their successors and assigns.

IN WITNESS WHEREOF, the COUNTY and the CONSULTANT have executed this agreement as of the date first written above.

(SEAL)

SEDGWICK COUNTY, KANSAS

RECOMMENDED FOR APPROVAL:

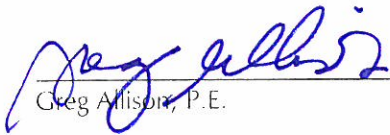
David C. Spears, P.E., County Engineer Date

Tim R. Norton, Date
Chairman, Board of County Commissioners

ATTEST:

Kelly B. Arnold, County Clerk Date


MKEC ENGINEERING CONSULTANTS, INC.



Greg Allison, P.E.

2/21/12
Date

Approved as to Form:



Robert W. Parnacott, 2/24/12
Assistant County Counselor Date

NONDISCRIMINATION PROVISIONS

1. CONSULTANT shall observe the provisions of the Kansas acts against discrimination and shall not discriminate against any person in the performance of work under the present agreement because of race, religion, color, sex, disability, national origin or ancestry;
2. In all solicitations or advertisements for employees, CONSULTANT shall include the phrase "equal opportunity employer" or a similar phrase to be approved by the Kansas Human Rights Commission;
3. If CONSULTANT fails to comply with the manner in which CONSULTANT reports to the Kansas Human Rights Commission in accordance with the provisions of KSA 44-1031 and amendments thereto, CONSULTANT shall be deemed to have breached the present contract and it may be canceled, terminated or suspended in whole or in part, by the COUNTY;
4. If CONSULTANT is found guilty of a violation of the Kansas acts against discrimination under a decision or order of the Kansas Human Rights Commission which has become final, CONSULTANT shall be deemed to have breached the present agreement and it may be canceled, terminated or suspended, in whole or in part, by the COUNTY;
5. CONSULTANT shall include the provisions of the above paragraphs 1 through 4, inclusively, in every sub-contract or purchase order so that such provisions will be binding upon such sub-contractor or vendor.



HOURLY RATE SCHEDULE (2012)

Principal/Project Manager	-	\$120.00
Senior Engineer	-	110.00
Senior Landscape Architect	-	110.00
Engineer Level I	-	90.00
Engineer Level II/Senior Technician	-	80.00
Landscape Architect Level I	-	80.00
Landscape Designer	-	70.00
Secretary	-	45.00
Survey Team/2 Man	-	125.00
Survey/GPS	-	125.00
Survey/Leica	-	290.00
RLS	-	80.00
Inspector	-	80.00
Technician I	-	70.00
Technician II	-	50.00

EXPENSES:

Xerox Copies	-	Current Market Rates
Plot Prints	-	0.80 per S.F.
Color/Mylar Plot Prints	-	1.85 per S.F.
Mileage	-	IRS allowed Rate



SEDGWICK COUNTY PUBLIC WORKS DESIGN REQUIREMENTS AND SCOPE OF SERVICES

The Engineering Design Consultant shall furnish the services required for the development of plans, specifications, and estimates of the quantities of work for the designated project in the format and detail required according to this document. This project is expected to be locally administered by Sedgwick County.

Project Description: CIP Project No. B454 - Replacement of Bridge No. 624-6-455, a 22 ft. 3-span RCB bridge length box with a 19 ft. roadway located on 23rd St S between 311th and 327th St W in southwest Sedgwick County, KS.

NBI No.: 000870779106240

Sufficiency Rating: 46.2 – Structurally Deficient

2010 Traffic Count: Unknown (Township Road)

Posted: 12/23/36 Tons

Drainage Area: less than 2 sq. miles

Due Date: Final plans and specifications are anticipated to be due in the third quarter of 2013. An exact submittal date will be determined after consultant selection during the negotiation period.

1.0 DESIGN STANDARDS

- 1.1. U.S. Customary units shall be employed on all projects.
- 1.2. Design standards shall follow the Kansas Department of Transportation (KDOT) Project Development Manual for Non-National Highway System Local Government Road and Street Projects (latest edition).
- 1.3. Plan style and format shall essentially follow that described in the KDOT Design Manuals.
- 1.4. Design bridges according to the American Association of State Highway and Transportation Officials (AASHTO) standards (minimum HS-20 loading).
 - 1.4.1. See Section 3.0 for exceptions.
- 1.5. All construction work and material shall comply with the KDOT Standard Specifications for State Road and Bridge Construction (2007), as well as any KDOT and Sedgwick County special provisions.
- 1.6. All stormwater runoff shall be calculated and managed in accordance with the City of Wichita/Sedgwick County Storm Water Manual (latest version).
- 1.7. Minimum bridge approach grading shall be used to transition roadway width and profiles for bridge specific projects.
- 1.8. Bridge channel work shall be minimized when possible.
- 1.9. Alignment stationing shall be south to north and west to east.
 - 1.9.1. Avoid beginning with Sta. 0+00.
 - 1.9.2. Avoid using the same stationing for multiple alignments, including side roads.



- 1.10. North shall be oriented to the top or right side of the sheet.
- 1.11. The project survey control data should be shown on the first plan-profile sheet. The horizontal and vertical datums shall be per § 2.1.1.
- 1.12. Cross sections are required on all projects; maximum spacing is 100 ft. and shall be provided at all storm sewer crossings, crossroad pipes, guardrail end points, edge of wearing surfaces of bridges, and any other critical locations deemed necessary by Sedgwick County.
- 1.13. Traffic control plans shall attempt to balance project cost with road closure time.
 - 1.13.1. Traffic control measures shall meet the guidelines presented in the latest edition of the Manual of Uniform Traffic Control Devices (MUTCD).
 - 1.13.2. Traffic is to be closed during construction at any bridge replacement location.
 - 1.13.3. Local traffic will be carried at all times on either side of the bridge, if applicable, but through traffic may be eliminated in phases if approved by Sedgwick County.
- 1.14. All hydraulic structures shall be designed to pass 100-year discharges as required by the City of Wichita/Sedgwick County Storm Water Manual.
 - 1.14.1. Lower discharges may be allowed if justified.
- 1.15. Use KDOT and Sedgwick County standard detail sheets for plan preparation.
 - 1.15.1. Consult KDOT Bureau of Local Projects for the use of county standard details when developing plans for Local Public Authority (LPA) administered projects.
- 1.16. Interim check plans shall be submitted according to § 2.7.3.
- 1.17. Final plans shall be submitted for production in electronic Portable Document Format (PDF). Use of the PDF/A file format for long-term archival is required, and shall adhere to the following composition:
 - 1.17.1. Resolution shall be exactly 400 dpi (dots per inch).
 - 1.17.2. Create PDF files in black and white, using grayscale when shading is necessary for clarity of intent. Do not submit full-color PDF files.
 - 1.17.3. Use JPEG compression for raster images.
 - 1.17.4. Submit all plan sheets, including cross sections, as a single multi-page PDF file.
 - 1.17.5. Create each page in the PDF file for printing on 22"x36" paper using landscape orientation.
 - 1.17.6. Name the PDF file according to the Sedgwick County project number followed by the fiscal year, using the underscore symbol to separate the entities (e.g. R259_2011.pdf).
 - 1.17.6.1. File naming and bookmarking shall be per KDOT E-Plan policy for KDOT administered projects.
 - 1.17.7. Submit on CD-ROM or DVD medium. Medium must be labeled with the Sedgwick County project number, project year and consultant name. Include the number of CD-ROMs and total submitted (e.g. 1 of 4, 2 of 4, etc.).



- 1.18. Regardless of the project administrator, each drawing associated with this project shall also be submitted to Sedgwick County in AutoCAD DWG format within the following guidelines:
 - 1.18.1. Use the latest version available for AutoCAD DWG format.
 - 1.18.2. All entities shall be created BYLAYER, with color and linetype BYLAYER.
 - 1.18.3. Any referenced information external to the drawing (cells, blocks, xrefs, shapes, pen table, or non-standard fonts) shall be included.
 - 1.18.4. Any coordinate information (point number, northing, easting, elevation and description) shall be included as Autodesk Civil 3D point objects or point blocks within the drawings, AutoDesk civil file format or as a delimited ASCII file.
 - 1.18.5. Submit on CD-ROM or DVD medium. Medium must be labeled with the Sedgwick County project number, project year and consultant name. Include the number of CD-ROMs and total submitted (e.g. 1 of 4, 2 of 4, etc.).
 - 1.18.5.1. The AutoCAD and PDF files may be stored on a single medium, but they shall be located in separate folders.

2.0 SCOPE OF SERVICES

The Engineering Design Consultant shall complete the following work items:

- 2.1. Topographic survey of the project area per KDOT specifications. The survey shall be conducted by a trained and experienced land surveyor licensed by the Kansas State Board of Technical Professions according to Kansas Statutes.
 - 2.1.1. Geo-reference the survey data to the Kansas State Plain Coordinate System, North American Datum of 1983 (NAD 83) horizontal datum, FIPS Zone 1502, ADS Zone 395 1 (South Region), and North American Vertical Datum of 1988 (NAVD 88). All final values shall be in US Survey Feet.
 - 2.1.2. Indicate the geoid model used to transform the survey data to NAVD 88.
- 2.2. Geotechnical investigation of in-situ soils and coring of existing surfaced roads
 - 2.2.1. A minimum of 3 borings at a depth of 5 feet will be obtained for each surfaced road mile of the project in order to evaluate soil conditions and approximate existing surface thicknesses. Bridge projects with minimal road construction may be exempt.
 - 2.2.1.1. Pavement cores may be required in addition to the borings if a precise surface thickness is needed (e.g. when salvaging existing asphalt).
 - 2.2.1.2. Reports will include test results for the following laboratory tests in order to classify the in-situ soils, evaluate the shrink/swell potential, and determine their pavement support characteristics:
 - 2.2.1.2.1. Unconfined compression soil testing
 - 2.2.1.2.2. Water content and soil density determinations
 - 2.2.1.2.3. Atterberg limits test



- 2.2.1.2.4. Standard Proctor test
- 2.2.1.2.5. California Bearing Ratio (CBR) test
- 2.2.1.2.6. Soil resistivity and pH, and water resistivity and pH
- 2.2.2. Geotechnical investigation is required for bridge foundations, including foundations for bridge sized box structures, which shall meet KDOT specifications. Non-bridge size box structures will generally not require geotechnical investigation.
- 2.2.3. Geotechnical report and coring logs shall be submitted to Sedgwick County.
- 2.3. Drainage study with complete hydrologic and hydraulic calculations.
 - 2.3.1. All means of drainage calculations shall meet the requirements of the Wichita/Sedgwick County Storm Water Manual (latest version).
 - 2.3.2. Calculations shall be submitted to Sedgwick County.
- 2.4. Right of way strip map and easement descriptions with tract maps.
 - 2.4.1. Legal descriptions and tract maps shall be prepared by trained and experienced land surveyor licensed by the Kansas State Board of Technical Professions according to Kansas Statutes.
- 2.5. Utility coordination.
 - 2.5.1. All utility companies within the project corridor shall be requested by the consultant to flag or otherwise locate their facilities.
 - 2.5.1.1. The consultant shall make every effort to identify and locate all utilities, both public and private, regardless of their status with the Kansas One-Call system.
 - 2.5.2. Utility information shall be clearly noted and identified on the plans. The ownership note shall appear on the first plan-profile sheet and should contain the name of utility owners, contact person, address and telephone number.
 - 2.5.3. Identify all potential utility conflicts and distribute utility coordination plans per § 2.7.3.
 - 2.5.4. Meet with utility representatives as required to review plans and coordinate relocation of utility conflicts prior to project letting or, if approved by the County Engineer, identify conflicts to be resolved during construction.
 - 2.5.5. Prepare utility status report identifying utility conflicts and dates by which the conflicts will be eliminated. Submit report per § 2.7.3 and as requested by Sedgwick County.
 - 2.5.6. Meet with affected utility representatives and the project contractor to resolve any conflicts with utilities that occur during construction.
- 2.6. Prepare all required local, state, and federal permit applications and supporting documentation.
 - 2.6.1. Submit completed applications and permit fees to the regulatory agencies.
 - 2.6.2. Permit fees are to be paid by the consulting engineer and are considered incidental to the design fee.



2.7. Prepare project plans

- 2.7.1. Plans shall include grading, paving, storm sewer, structural, guard fence, pavement marking, traffic signal, seeding, stormwater pollution prevention, and traffic control plans, as applicable to the project.
 - 2.7.1.1. For projects to be administered by Sedgwick County, Stormwater Pollution Prevention Plan (SWPPP) shall include a project specific plan sheet(s) detailing the quantity and types of devices to be used, along with their location.
 - 2.7.2. Plans shall include a drainage map, prepared according to the KDOT Design Manual.
 - 2.7.3. For projects to be let by Sedgwick County - Prepare interim review plans as follows:
 - 2.7.3.1. Preliminary cost estimate within 60 days of execution of contract
 - 2.7.3.2. Field Check - 54% plan completion.
 - 2.7.3.2.1. 1 set 11"x17" plans printed on bond.
 - 2.7.3.2.2. Updated cost estimate.
 - 2.7.3.2.3. PDF copy of 22"x36" plans @ 400 dpi.
 - 2.7.3.3. Utility Coordination Plans - submitted after addressing major comments from Field Check and when the effect of the project on utilities is determined.
 - 2.7.3.3.1. 1 set 22"x36" plans printed on bond to each utility within the project corridor.
 - 2.7.3.3.2. 1 set 11"x17" plans printed on bond submitted to Sedgwick County.
 - 2.7.3.4. Office Check - 94% plan completion.
 - 2.7.3.4.1. 1 set 11"x17" plans printed on bond.
 - 2.7.3.4.2. Updated cost estimate.
 - 2.7.3.4.3. Utility Status Report per §2.5.5
 - 2.7.3.4.4. PDF copy of 22"x36" plans @ 400 dpi.
 - 2.7.3.5. Final Plans – 100% plan completion.
 - 2.7.3.5.1. 3 sets 11"x17" plans printed on bond.
 - 2.7.3.5.2. PDF copy of 22"x36" plans meeting the requirements of §1.17.
 - 2.7.3.5.3. Engineer's Estimate (final).
 - 2.7.3.5.4. Updated Utility Status Report per §2.5.5
 - 2.7.3.5.5. Schedule of Prices.
 - 2.7.4. For LPA projects or other projects let by KDOT, follow their schedule and plan activity requirements in addition to that required by Subsection 2.7.3.
- 2.8. Each interim plan submission is subject to review by Public Works staff. The design consultant will work with staff to address review comments in a timely manner.
- 2.9. Prepare and submit any necessary special provisions with Final Plans utilizing KDOT format.



- 2.10. Meet with project stakeholders as required (elected officials, other agencies, property owners, etc.).
- 2.11. Work with the Contractor to resolve any concerns and answer questions.
 - 2.11.1. Review all shop drawings and other submittals, as required.
 - 2.11.2. Answer requests for information (RFI), as required.
 - 2.11.3. Assist with interpretation of plans during construction.
- 2.12. Revise project plans for change orders, as necessary. Coordinate efforts with the project contractor and Sedgwick County.
- 2.13. For projects with bridge structures:
 - 2.13.1. Provide Operating and Inventory load ratings of new structures based on KDOT 5-Trucks upon submittal of final plans.
 - 2.13.2. Conduct the initial bridge inspection, including load rating revisions, per KDOT specifications after construction of the bridge and acceptance of the project.

3.0 COUNTY SPECIFIC BRIDGE DESIGN DETAILS

- 3.1. Spacer frames are to be supported by bar chairs and bolsters, not on the plywood forms.
- 3.2. There shall be 1.5 inches of bottom clearance for steel in slabs.
- 3.3. The minimum section for end bearing pile applications shall be HP12 x 53. The use of HP10 x 42 sections is discouraged.

4.0 EXCEPTIONS TO STANDARD KDOT DESIGN

The Engineering Design Consultant shall utilize Sedgwick County special provisions and standard sheets for entrance details, pavement marking, signing details, traffic signals, and traffic control plans. Additionally, most projects will require use of modified KDOT pavement mix designs, which do not allow Recycled Asphalt Pavement (RAP) in the surface course. Coordinate the use of these details and special provisions with the KDOT Bureau of Local Projects on LPA designated projects. Most of the county standard detail sheets and general consultant information can be found at www.sedgwickcounty.org/Public_Works/cad_standards.asp. The Storm Water Manual and related documents can be found at www.wichita.gov/stormwatermanual.

5.0 NONCOLLUSION AND DEBARMENT

Potential consultants should understand that any entity doing business with Sedgwick County will be required to certify that they have not participated in any collusion and have not been or is not currently debarred, voluntarily excluded or disqualified from bidding by any federal, state or local agency. Any questions or concerns regarding this requirement should be discussed with the Public Works Department before submitting a proposal.

Bridge Inventory & Appraisal (English)

CIP B454
SGCO BR No 624 6-11

(8) STRUCTURE NO 000870779106240 (1) STATE Kansas (4) CITY Rural (3) COUNTY Sedgwick
 (5A) ROUTE ON/UNDER Route On Structure HBP FUNDING ELIGIBILITY Replacement

IDENTIFICATION		GEOMETRIC DATA	
(5B) ROUTE TYPE	County Hwy	(112) NBIS BRIDGE DEFINITION	Long Enough
(5C) SERVICE TYPE	Mainline	(49) STRUCTURE LENGTH	22.0 FT
(5D) ROUTE NUMBER	00000	(48) MAXIMUM SPAN LENGTH	6.9 FT
(5E) SUFFIX	N/A (NBI)	(32) ROUTE WIDTH	23.0 FT
(6A) FEATURE INTERSECTED	TRIB. TO SPRING CREEK	(51) BRIDGE ROADWAY WIDTH, CURB TO CURB	19.0 FT
(9) LOCATION	1.4W 0.5S OF GARDEN PLAIN	(52) DECK WIDTH OUT TO OUT	21.7 FT
(16) LATITUDE	37 ° 38 ' 52.23 "	(50A) LEFT CURB OR SIDEWAY WIDTH	0.0 FT
(17) LONGITUDE	97 ° 43 ' 52.74 "	(50B) RIGHT CURB OR SIDEWAY WIDTH	0.0 FT
(2) HIGHWAY AGENCY DISTRICT	District 05 - Hutchinson	(34) SKEW	30.0 °
(98A) BORDER BRIDGE STATE	Not Applicable (P)	(47) ROUTE HORIZONTAL CLEARANCE	18.7 FT
(98B) BORDER BRIDGE RESPONSIBILITY	%	(10) MIN VERT CLEARANCE OVER ROUTE	99.99 FT
(99) BORDER BRIDGE STRUCTURE NO.	-	(53) MIN VERT CLEARANCE OVER BRIDGE	99.99 FT
(7) (ROUTE NAME) FACILITY CARRIED	23rd S	(33) MEDIAN	No Median
		(35) STRUCTURE FLARED	No flare
FUNCTIONAL DESCRIPTION		STRUCTURE AND MATERIALS	
(26) FUNCTIONAL CLASSIFICATION	Rural Local	(45) NUMBER OF MAIN SPANS	3
(104) NHS DESIGNATION	Not on NHS	(43B) MAIN SPAN DESIGN TYPE	Culvert
(100) STRAHNET DESIGNATION	Not a STRAHNET hwy	(43A) MAIN SPAN MATERIAL TYPE	Concrete
(110) NATIONAL TRUCK NET	Not part of natl netwo	(107) DECK TYPE	N/A (NBI)
(12) BASE HIGHWAY NET	Not on Base Network	(108A) DECK SURFACE	N/A (no deck) (NBI)
(13A) LRS INVENTORY ROUTE	(13B) LRS SUBRTE #	(108B) MEMBRANE	N/A (no deck) (NBI)
(11) LRS MILE POINT	0.000 MI	(108C) DECK PROTECTION	N/A (no deck) (NBI)
(105) FEDERAL LANDS HIGHWAY	N/A (NBI)	(46) NUMBER OF APPROACH SPANS	0
(20) TOLL	Rdwy Agrmt	(44B) APPROACH SPAN DESIGN TYPE	-1
(21) MAINTAINANCE RESPONSIBILITY	County Hwy Agency	(44A) APPROACH SPAN MATERIAL TYPE	Unknown (NBI)
(22) OWNER	County Hwy Agency		
(37) HISTORICAL SIGNIFICANCE	Possibly eligible for	CONDITION	
(101) PARALLEL STRUCTURE	No bridge exists	(58) DECK CONDITION RATING	N
(103) TEMPORARY STRUCTURE	Unknown (NBI)	(59) SUPERSTRUCTURE CONDITION	N
		(60) SUBSTRUCTURE CONDITION	N
AGE AND SERVICE		(62) CULVERT CONDITION	4
(29) AVERAGE DAILY TRAFFIC	50	(61) STREAM STABILITY / CHANNEL	4
(109) AVERAGE DAILY TRUCK TRAFFIC	-1 %		
(30) YEAR OF ADT	2010	APPRAISAL	
(27) YEAR BUILT	1900	DEFICIENCY STATUS	Structurally Deficient
(106) YEAR REHABILITATED		(72) BRIDGE ROUTE ALIGNMENT	-1
(102) ONE WAY OR TWO WAY TRAFFIC	2-way traffic	(71) WATERWAY ADEQUACY	0
(42A) SERVICE ON THE BRIDGE	Highway	(113) SCOUR VULNERABILITY	0
(42B) SERVICE UNDER THE BRIDGE	Waterway	(67) STRUCTURAL EVALUATION	4
(28A) LANES ON ROUTE	2	(68) DECK WIDTH APPRAISAL	4
(28B) LANES UNDER ROUTE	0	(69) HORIZ. UNDERCLEARANCE APPRAISAL	N
(19) BYPASS DETOUR LENGTH	3.100 MI	SUFFICIENCY RATING	46/20
		(36A) BRIDGE RAILS	0
LOAD RATING		(36B) RAIL TRANSITIONS	0
(66) INVENTORY LOAD RATING	17 ton, HS 8.00	(36C) APPROACH GUARDRAILS	0
(64) MAXIMUM LOAD RATING	22 ton, HS 11.00	(36D) APPROACH GUARDRAIL ENDS	0
(31) DESIGN LOAD	0 Other or Unknown	NAVIGATION DATA	
(65) INVENTORY LOAD RATING METHOD	LF Load Factor	(38) NAVIGABLE WATERWAY	Permit Not Required
(63) OPERATING (MAX) LOAD RATING METHOD	LF Load Factor	(39) NAVIGATION VERTICAL CLEARANCE	0
(70) POSTING REQUIREMENTS	AV/Above Legal Loads	(40) NAVIGATION HORIZONTAL CLEARANCE	0
(41) POSTING STATUS	Posted for load	(111) SUBSTRUCTURE NAV PROTECTION	Unknown (NBI)
		(116) MIN NAV VERT CLEAR VERT LEFT BRIDGE	0
SCHEDULE			
(90) ROUTINE INSPECTION DATE	05/11/2011		
(91) ROUTINE INSPECTION FREQUENCY	24 MO		
(92) CRITICAL FEATURE INSPECTION	(93) INSP DATE		
A) FRACTURE CRITICAL	N	MO	A)
B) UNDERWATER INSP	N	MO	B)
C) SPECIAL INSP	N	MO	C)
PROPOSED IMPROVEMENTS			
(75A) TYPE OF WORK	Not Applicable (P)		
(75B) WORK BY	Unknown (NBI)		
(76) IMPROVEMENT LENGTH	FT		
(94) BRIDGE COST			
(95) ROADWAY COST			
(96) TOTAL COST			
(97) COST ESTIMATE YEAR			
(114) FUTURE ADT	80		
(115) FUTURE ADT YEAR	2028		