# REQUEST AUTHORIZATION FOR MAYOR AND FINANCE OFFICER TO SIGN PROFESSIONAL SERVICES AGREEMENT AMENDMENT

Ducia et Norre o	Normalian	Date: 1/24/2007							CIP #:	
Project Name 8	Number:	East Anamosa Street Extension, <b>ST04-1397</b> and EM 1648(1) PCN00UR								50316
Project Descrip	roject Description: New street and utilities installation (water high & low pressure systems and sewer) design services									
Consultant: Original Contract Amou	Kadrmas, L nt: \$25	_ee & 9,776		Original Contract Date	: 7/1	8/05	Original Completic	on Date:	N/A	
Amendment Number: 1										
Amendment Description: New street and utilities corridor environmental assessment prior to design services beginning and construction observation services (inspection and testing).										
Current Contract Amount: \$259,776.						Current Cor	mpletion Date	:	N/A	
Change Requested:\$407,781New Contract Amount:\$667,557.						New Completion Date: November 30, 2007			30, 2007	
Funding Source	e This Req	uest		I						
Amoun	t De	ot.	Line Item			Co	omments			
\$302,781	.00	8910	4223	street						
\$65,000	.00	934	4223	water						
\$40,000	.00	834	4223	sewer						
\$407,781	.00 Tot	al								
Agreement Review & Approvals										
Project Manager Date					D	Division Manager Date				
Department Director				Date	C	ty Attorney				Date
ROUTING INSTRUCTIONS										
Route two originals of the Agreement for review and signatures.					(Note	FINANCE OFFICE USE ONLY (Note to Finance: Please write date of Agreement in appropriate space in the Agreement document)				
Finance Office - Retain one original Project Manager - Retain second original for delivery to Consultant						to Finance. Fiease Will	Date	Initials		proved
cc: Public Works					Арр	ropriation			Y	N
	gineering oject Manager					h Flow			Y	Ν

# ENGINEERING AMENDMENT NO. 1 TO THE AGREEMENT BETWEEN THE CITY OF RAPID CITY AND KADRMAS, LEE & JACKSON, INC. FOR PROFESSIONAL SERVICES FOR EAST ANAMOSA STREET EXTENSION LACROSSE STREET TO CENTURY ROAD CITY OF RAPID CITY PROJECT ST04-1397

#### PURPOSE OF THIS AMENDMENT:

This Amendment No.1 dated this \_\_\_\_\_\_ day of February 2007, modifies the terms and conditions of the Agreement between the City of Rapid City and Kadrmas, Lee & Jackson, Inc. for Professional Services for ST04-1397, East Anamosa Street Extension, dated July 18, 2005. This request is to provide to modify the preliminary and design services, the addition of services to complete an environmental review and the addition of construction engineering services.

#### SCOPE OF THIS AMENDMENT:

- 1. Modifications to the Preliminary and Design Services Phase.
  - a. Provide for a revised project timeline as per the attached schedule found in the Environmental Review and Documentation Scope.
  - b. Services to incorporate the design elements for the reach between Century Road and East North Street (Phase 3) as provided by Centerline to the City to include:
    - i. Incorporation of the Centerline provided Engineer sealed plan sheets for Phase 3 with the Kadrmas, Lee & Jackson, Inc. provided deliverables to be bid within the same contractor packet.
    - ii. Calculate the bid item quantities necessary for Phase 3 from the Centerline provided Engineer sealed plan sheets with the exception of the quantities related to the site grading. Centerline to provide the appropriate earthwork quantities to construct Phase 3.
    - iii. Provide design services for the street lighting for Phase 3 as while as traffic signal provisions for one intersection within Phase 3.
    - iv. Complete the intersection design within Phase 3 at the intersection of East Anamosa Street and East North Street within the Department of Transportation Right-of-Way. Assumes no storm sewer design.
- 2. Additional services to provide an Environmental Review and Documentation.
  - a. Services to be defined in the attached document entitled:

Project Scope Environmental Review and Documentation Kadrmas, Lee & Jackson, Inc. East Anamosa Street Extension Lacrosse Street to East North Street City of Rapid City, SD

East Anamosa Street Extension ST04-1397 Amendment No. 1 Page 1 of 15

- 3. Additional services to provide the Construction Engineering Phase as per the original agreement.
  - a. Services to be defined in the attached document entitled:

Project Scope Construction Engineering Kadrmas, Lee & Jackson, Inc. East Anamosa Street Extension Lacrosse Street to East North Street City of Rapid City, SD

# PAYMENT TO THE ENGINEER:

Amendment No. 1 shall be for an additional amount not to exceed a total of \$407,781.01. Billings will be made on an hourly basis as services are provided to the City. Additional services will not be provided or billed to the City unless a written request is received from the City for such additional services.

Adjustments to contract amounts:

# **Contract Amount Summary**

Original Contract \$259 Amendment No. 1	9,776.12
Preliminary/Design Phase Adjustment \$29 Environmental Review/Documentation \$68	9,437.85 8,667.07
Construction Engineering <u>\$309</u>	0,676.09 7,557.13

# **EXECUTION:**

IN WITNESS WHEREOF, the parties hereto have made and executed this Amendment No. 1 on the date hereinafter shown,

**OWNER** CITY OF RAPID CITY, SOUTH DAKOTA

By\_\_\_\_\_

Jim Shaw – Mayor

Date

ATTESTED

By

James Preston – Finance Officer

Date

East Anamosa Street Extension ST04-1397

ENGINEER KADRMAS, LEE & JACKSON, INC.

By Rodney A. Senn – Rapid City Chief Engineer

Date ) Junio 24, 2007

# **PROJECT SCOPE**

# **Environmental Review and Documentation**

# Kadrmas, Lee & Jackson Inc.

# East Anamosa Street Extension – Lacrosse Street to East North Street City of Rapid City, SD

# I. PURPOSE

Kadrmas, Lee & Jackson Inc. (KL&J) will provide services to produce an Environmental Assessment (EA) and subsequent Finding of No Significant Impact (FONSI), should a FONSI be determined as the appropriate action, for the East Anamosa Street Extension Project. If a FONSI is determined as the appropriate action, the FONSI will then be presented to the Federal Highway Administration (FHWA) South Dakota office for approval.

If at any time during the EA process significant impacts are found to exist, thus requiring that an Environmental Impact Statement (EIS) and subsequent Record of Decision (ROD) be produced, the owner will immediately be notified. The additional work required to produce an EIS and ROD will then be added by supplement to this agreement.

# II. OBJECTIVE

The EA will document the process implemented to execute the environmental review and determinations as required by the National Environmental Policy Act (NEPA) and in accordance with FHWA Technical Advisory 6640.8A (TA). Project alternatives will be reviewed taking into consideration all potential project impacts to include: social, economic, environmental, and cultural. The document will provide information necessary to make an informed decision and determination on the project alternatives and associated impacts.

The EA will also include such project requirements as permitting and impact mitigation. KL&J will immediately inform Rapid City Officials (the City) of any unforeseen project constraints, obstacles or issues which are relevant to the environmental review. KL&J will provide an objective and comprehensive report to include a recommendation on alternatives selection. The alternative recommendation will not be presented until after the environmental review process is complete.

# III. SERVICES TO BE PROVIDED BY KL&J

# 100. Project Administration

101. **Project Schedule.** KL&J will submit a schedule for completion of the work to the City, South Dakota Department of Transportation (SDDOT), and FHWA. The schedule will include the establishment of milestone dates for major items of work. The schedule will be reviewed monthly and revised as necessary.

East Anamosa Street Extension ST04-1397

- 102. Monthly Progress Reports. KL&J will submit progress reports to the City for distribution as they deem appropriate. Progress reports will be submitted with the monthly invoice.
- 103. Planning and Review Sessions. Three sessions will be held for the discussion of major issues, project progress, milestone dates, and NEPA compliance. The first will be held early in the process, the second will be held prior to and within one week of the public meetings. The City, SDDOT, FHWA, and other state and federal agencies which express an interest will be invited to participate.

KL&J will coordinate the time and location for the sessions as well as prepare and distribute the agendas. Draft agendas will be distributed for comment one to two weeks prior to the sessions.

- 104. Field Review. KL&J will coordinate and facilitate a project field review. The City, SDDOT, and FHWA will be invited to participate. Preliminary project information will be discussed to confirm the scope of work and identify potential issues and solutions. The field review will be scheduled to occur the same week as the agency scoping meeting, first planning and review session, and first public meeting. A written summary of the field review will be prepared and distributed by KL&J.
- **105. Project Management and Subconsultant Coordination.** The KL&J project manager will coordinate and facilitate communications and work activities between subconsultants, state and federal government, and local governmental agencies. The project management will be done in a manner which will effectively and efficiently complete the work.

#### 200. Public and Agency Coordination

201. Mailing List. KL&J will prepare a list of governmental agencies and elected officials who will be solicited for their input on the project. Additionally, a list will be prepared of affected, potentially affected, and potentially interested private parties who will also be solicited for input. The City will provide a list of property owners within ¼ mile of the project limits to aid KL&J in the development of the lists.

The lists will be compiled to create one, comprehensive mailing list. The mailing list will be submitted to the City, SDDOT, and FHWA for review and approval prior to initial finalization. The mailing list will be reviewed and updated prior to public meetings.

202. Solicitation of Views. KL&J will prepare and distribute a solicitation of views (SOV) letter to those parties on the mailing list as detailed in Section 201. The letter will be used to: inform those individuals and entities on the list of the proposed project, receive and gauge initial project feedback, discover unforeseen

issues, and to obtain information on project requirements such as permits and licenses.

- 203. Agency Scoping Meeting. KL&J will prepare for and conduct a meeting with state and federal resource agencies to be held in the same week as the first planning and review session, first public meeting, and field review. The intent will be to present the relevant results of the Study, results of the preliminary engineering analysis, proposed alternatives, and potential project impacts. KL&J will distribute a meeting agenda and a letter of invitation approximately one to two weeks prior to the meeting. The letter will also serve as the SOV for the agencies.
- **204. Public Meetings.** KL&J will prepare for and conduct two public meetings. The first will be an informational meeting to present the horizontal alternatives from the Study to be carried forward to the EA and the preliminary project scope and preliminary alternatives. The second will be a public hearing to be held fifteen to thirty days after the Notice of Availability for the EA is published.
  - A. Notification. Informational notices along with meeting invitations will be mailed to area property owners, tenants, and interested parties approximately two weeks prior to the meeting. Information provided will include details about the project and progress reports.

KL&J will prepare news releases and newspaper advertisements announcing the public meetings and giving a brief project description. Public service announcements will be sent to all local news media seven days prior to the meetings. Newspaper advertisements will be placed in the Rapid City Journal (official county paper) two weeks and one week prior to the meetings. The City will be given the releases and advertisements for review and comment prior to release.

- **B. Preparation and Exhibits.** KL&J will arrange and prepare for the meetings. Preparation for the meetings may include; PowerPoint presentation, visual displays, handouts, exhibits, and plan drawings.
- C. Public Meeting #1 Public Information and Workshop. The first meeting will present the relevant results of the Study, results of the preliminary engineering analysis, proposed alternatives, and potential project impacts. The public will be invited to take part in a discussion of the information and give input on the project. The first public meeting will be coordinated to occur the same week as the field review, agency scoping meeting, and first planning and review session.
- **D.** Public Meeting #2 Public Hearing. The second meeting will be held two to four weeks after the EA has been made available to the public. The intent of the meeting is to receive feedback on the final EA. KL&J will prepare and add as a supplement to the EA a Summation of Public Hearing.

- E. **Public Comment Period.** The comment period will be left open for thirty days after a public meeting is held. Summaries and reports from the public meetings will be finalized following the comment period.
- F. Unscheduled Meetings. KL&J staff will meet with those individuals or entities who own property immediately adjacent to the project limits if requested. It is anticipated that such meetings would be to address concerns the property owners may have with the proposed alternatives. KL&J will attend up to four, two hour meetings held at a location immediately adjacent to the project area.

### 300. Preliminary Engineering, Evaluation, and Environmental Documentation

- **301.** Engineering and Environmental Data Collection. KL&J will create and maintain files which will document the engineering analysis and environmental review process. The files will contain data and materials collected and created to facilitate the engineering, design, and environmental analysis necessary to create the alternatives and evaluate the impacts.
- **302.** Alternatives Development and Analysis. The alternatives presented in the Study will be incorporated into the EA with a detailed analysis on the preferred alternative only. The Study preferred alternative was not completely analyzed and will be investigated in accordance with the TA for inclusion in the environmental document. If during the scooping meetings as detailed in sections 203 and 204.C it becomes apparent that additional horizontal alignments need to be considered, the additional work required will be added by supplement to this agreement.

The preferred alternative horizontal alignment will be used as a basis for the subsequent considerations in regards to vertical alignment, design speed, and structural design. Alternatives development and analysis will include:

- Two structural alternatives, bridge and structural steel pipe. The two structural alternatives will include three slope alternatives: retaining wall, earthen berm, and wire mesh retained vertical aggregate embankment.
- Two design speed alternatives, thirty five and forty five miles per hour, will be evaluated. The evaluation will include analysis of the vertical alignment and potential right of way impacts associated with each of the design speeds.

If during analysis and evaluation any alternative is determined not feasible it will be eliminated from further consideration. If analysis of additional alternatives is requested or becomes necessary, the additional work required will be added by supplement to this agreement. 303. Environmental Analysis and Permitting. KL&J will use various sources of information to prepare for and perform an environmental analysis of the project area. Such sources will include text references and data gathered by field review of the project area. Direct, indirect, and cumulative impacts to be evaluated as necessary are: land use, farmland, social, relocation, economic, joint development, pedestrian and bicycle, air quality, noise, water quality, permits, wetlands, water body modifications, wildlife, floodplain, wild and scenic rivers, threatened and endangered species, historic and archaeological preservation, hazardous waste, visual, energy, construction, and short-term versus long term benefits.

No Noise Analysis will be conducted as part of the study.

KL&J will address wetlands which are identified from maps including NWI (National Wetland Inventory) data, aerial photography, county soil survey data, and USGS quadrangle data.

In accordance with Section 106 of the National Historic Preservation Act of 1966 as amended, a Class III Cultural Resources Survey will need to be conducted of the project area. KL&J will coordinate with a qualified subconsultant to ensure that the work is performed in accordance with the law. Survey results will be included in the evaluation of the project alternatives.

- **304.** Agency Comments and Coordination. KL&J will coordinate activities for the City, SDDOT, FHWA, subconsultants, and resource and other governmental agencies. One of the primary components of this coordination will be to identify and acquire necessary permits and discuss any avoidance, minimization, or mitigation measures which need to put in place. Such actions may be necessary in order to receive environmental clearances and create an acceptable environmental document. Any such commitments will be detailed in a list to be included in the environmental document.
- **305. Record of Public Involvement.** KL&J will create and maintain files which will document the public involvement. The files will include newspaper clippings, letters, and public comments. Input and comments received throughout the environmental review process will be summarized and filed appropriately.
- **306. Draft EA.** KL&J will prepare a Draft EA and distribute it for review and comments to the City, SDDOT, FHWA, and other interested parties. The Draft EA shall contain all necessary sections to include: purpose and need, alternatives, affected environment, and environmental impacts of each alternative. Also included will be results of agency consultations, a typical SOV letter and SOV responses, summary of public comments, summary and comments from the first public meeting, and a list of the document preparers and participating agencies.
- **307. Final EA.** After comments on the Draft EA have been satisfactorily addressed and the document has been approved by the City, SDDOT and FHWA for

distribution, KL&J will prepare and distribute the Final EA. A copy of the EA will be given to all Team members, interested parties, and the designated state repository for availability to the public. KL&J will also prepare and submit all required advertisements for notification of decision and public availability.

**308. FONSI.** If after the environmental process is complete it is determined there are no significant impacts associated with the project, KL&J will prepare a FONSI which will be submitted to FHWA for approval. Once approved, the FONSI will be distributed to the City, SDDOT, FHWA, interested parties, and the designated state repository for availability to the public. The City will prepare and submit all required advertisements for notification of decision and public availability.

**Significant Impacts.** If the project is found to have significant impacts an EIS will be required. A supplemental agreement would be necessary at that point to determine the work necessary to produce an EIS and subsequent ROD.

# III. DELIVERABLES PROVIDED BY KL&J

- 1. A project schedule will be submitted as detailed in Section 101. The schedule will be reviewed monthly with updates as needed.
- 2. Newsletters, advertisements, news releases, exhibits, and materials for public meetings in electronic format. The City will be responsible for all printing or reproduction.
- 3. Progress reports and billings at four-week intervals.
- 4. Minutes and reports for planning and review sessions, Team meetings, and public meetings.
- 5. Preparation, distribution, and submittal of the Draft and Final EA.
- 6. Preparation, distribution, and submittal of FONSI if applicable.
- 7. 10 hard copies of all reports with .pdf files of all reports provided in electronic format.

# V. REIMBURSABLE ITEMS

1. To be reimbursed at actual cost plus ten percent.

# VI. SUBCONSULTANTS

1. Class III Cultural Resources Survey.

# VII. WORK EXCLUDED FROM THIS CONTRACT

- 1. Environmental Impact Statement and Record of Decision.
- 2. Legal testimony for litigation arising out of the decisions and recommendations made for the project.
- 3. Additional alternatives development and analysis outside of those detailed in the Feb. 15, 2000 document "EAST ANAMOSA STREET EXTENSION STUDY."
- 4. Architectural/Historic Resource and Survey.
- 5. Threatened/endangered species, biological, botanical, and wildlife field surveys.
- 6. Noise Impact Analysis.
- 7. Field wetland delineation.

### VIII. SCHEDULE

Notice to Proceed	February 6, 2007
Draft EA Submittal	May 4, 2007
Preliminary Design Submittal	June 1, 2007
Final EA Submittal	July 13, 2007
95% Design Submittal	October 5, 2007
100% P&S Submittal	November 9, 2007
Bid Letting	November 30, 2007

# **PROJECT SCOPE**

# **CONSTRUCTION ENGINEERING**

# Kadrmas, Lee & Jackson Inc.

# East Anamosa Street Extension – Lacrosse Street to East North Street City of Rapid City, SD

# I Purpose

The purpose of this exhibit is to describe the scope of work and responsibilities required in connection with the construction engineering services for the East Anamosa Street Extensions from Lacrosse Street to East North Street project. The prime consultant for the construction engineering services is Kadrmas, Lee & Jackson, Inc. (KL&J). Materials testing will be provided by American Engineering Testing, Inc. (AET).

# II Objective

The objective of this phase of the project is to provide construction engineering services to verify that the contractor's work is performed in general conformance with the governing specifications, plans, and special provisions. The following documents will be used in the administration of the project:

- Project Plans and Specifications for East Anamosa Street Extensions Lacrosse Street to Century Avenue
- Project Plans and Specifications for East Anamosa Street Extensions Century Avenue to East North Street (Developer provided)
- Rapid City Standard Construction Specifications, current edition
- South Dakota Department of Transportation Standard Specifications for Road and Bridge Construction, current edition

KL&J will conduct the preconstruction conference, participate in weekly meetings, and provide updates to the public regarding progress, upcoming work, and access as described herein. KL&J will perform the necessary construction engineering work including on-site construction observation, soils compaction testing, quantity measurements, and computation of final pay quantities. Contract administration including shop drawing review, project documentation, record keeping, record drawings and filing will also be provided by KL&J.

The work tasks outlined in this exhibit are estimated based on anticipated construction completion dates and may vary depending upon the contractor's actual schedule. A total of 130 days (26 weeks) of construction administration services has been assumed.

Additional work not detailed in this exhibit shall be added by supplementary agreement, based upon a mutually agreeable scope of work and fee.

### III Exclusions

KL&J is not responsible for the contractor's safety procedures or operations. This scope of work does not include any safety inspections of the contractor's equipment, procedures, or operations. Also, KL&J is not responsible for the safety of City of Rapid City personnel, AET personnel, site visitors, contractor's personnel, subcontractor's personnel, or any other personnel. KL&J and subconsultants will not proceed with their duties in areas or situations that are deemed unsafe or hazardous, to that person, due to the contractor's non-conformance with OSHA or other agency safety regulations.

KL&J and its subconsultants will not assume the duties and responsibilities of the City of Rapid City, Contractor, or Subcontractors. The Contractor is solely responsible for his construction procedures, techniques, means and methods.

#### IV KL&J Services

A detailed summary of work tasks and estimated hours is included in spreadsheet format with this exhibit. Task numbers in this Scope of Work are formatted to coincide with their respective tasks in the fee estimate spreadsheet. Major work tasks are outlined below with a summation of criteria used as a basis for estimating hours.

### 100 Construction Administration

#### 101 Project Management and Coordination

Includes time for the coordination and scheduling of construction staff and miscellaneous reports.

#### 102 Preconstruction Conference

Prepare for, conduct, and prepare minutes of the pre-construction conference.

# 103 Progress Meetings (Weekly)

KL&J's Resident Project Representative (RPR) will meet with the contractor's superintendent, City of Rapid City Public Works staff, subcontractors, utilities, local authorities, and others as required to discuss project progress, upcoming work, and potential conflicts on a weekly basis. Twenty-six (26) weekly meetings have been anticipated.

#### 104 Public / Media Coordination

Provide information regarding project status and upcoming work to the local media periodically throughout construction. Senior staff will be available to meet, individually and in group settings, with adjacent landowners and businesses to provide status reports, address concerns, and answer questions.

### 105 Shop Drawing / Testing Review

Includes time for shop drawing and testing result review by the design and construction staff.

### 106 Pay Estimates / Change Orders

Prepare and distribute Contractor Pay Estimates on a bi-weekly basis and Change Orders as required.

### 107 Weekly Report to Public Works

Contract administration and project documentation will be according to established City of Rapid City construction procedures. Weekly reports will be made to the City of Rapid City. One complete set of record drawings will be prepared and provided to the City of Rapid City upon completion of the project.

#### 200 Construction Observation

KL&J will provide construction engineers and technicians to verify that the contractor's work is in conformance with the contract documents. The major items for each work task summarized below:

#### Removals

- Observation
- Bituminous Pavement
- Storm Drains and Inlets
- Sidewalk, Drives and Curb & Gutter
- Trees, Topsoil and Fence
- Quantity measurement and documentation

# **Excavation & Embankment**

- Observation
- Compaction Control
- Moisture and Density Testing (AET)
- Quantity measurement and documentation

#### Subgrade Preparation

- Compaction Control
- Moisture and Density Testing (AET)
- Quantity measurement and documentation

#### Aggregate Base

- · Observation
- Review / Coordinate Testing Requirements
- Aggregate Hauling
- Placement & Compaction
- Grade Control
- Quantity measurement and documentation

### Hot Bituminous Pavement

- Observation
- HBP Pavement Transitions
- HBP Pavement Patching
- HBP Mainline Paving
- Quantity measurement and documentation
- Review Material and Density Testing

#### **Portland Cement Concrete Pavement**

- Rebar Installation
- + Observation
- + Quantity Documentation
- Concrete Pours

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- + Observation
- + Review Material Testing
- + Quantity Documentation
- Joint Details and Sealant
- + Observation
- + Quantity Documentation

#### **Storm Drains and Detention Ponds**

#### Storm Drain

- Storm Drain, Manholes and Inlets
  - + Observation
  - + Horizontal and Vertical Control
  - + Compaction Control for Bedding and Trench Backfill
  - + Pipe Materials Acceptance
  - + Review Moisture and Density Testing for Bedding and Trench Backfill
  - + Review Bedding Material Physical Properties Testing
  - + Quantity Measurement & Documentation

#### **Detention Pond**

- Detention Pond
- Observation
- Compaction Control
- Quantity Measurement & Documentation

#### Water Mains

- Observation
- Materials Acceptance
- Horizontal and Vertical Control
- Quantity Measurement & Documentation

#### Sanitary Sewer Mains

- Observation
- Materials Acceptance
- Horizontal and Vertical Control
- Quantity Measurement & Documentation

#### **Bridge Approach Backfill**

#### Bridge Approach Backfill

- Observation
- Review Gradation & Physical Property Testing
- Review Density Testing
- Aggregate Hauling
- Placement & Compaction
- Grade Control
- Drain Materials Acceptance
- Geotextile Materials Acceptance

#### Super-structure

#### Approach Slabs, Bridge Deck & Sidewalk

- Rebar Installation
  - + Observation
  - + Material Acceptance
  - + Quantity Documentation
- Concrete Pours
  - + Observation
  - + Concrete Testing Review
  - + Quantity Documentation

#### Bridge Girders

- Observation
- Horizontal and Vertical Control
- Materials Acceptance
- Quantity Measurement & Documentation

#### Sub-Structure

#### **Pile Driving**

- Observation
- Materials Acceptance
- Pile Driving Calculations
- Horizontal and Vertical Control

### Bridge Abutments and Wing Walls

- Observation
- Horizontal and Vertical Control
- Rebar Size, Spacing, and Clearance
- Forming Dimensions
- Concrete Placement
- Concrete Testing Review
- Quantity Measurement & Documentation

#### **Miscellaneous Construction**

The remaining work tasks included under Miscellaneous Construction will involve typical construction observation, testing, and quantity documentation per the requirements of the City of Rapid City.

Traffic Control Erosion Control Seeding & Sodding Geotextile Fabrics Curb & Gutter Sidewalks & Driveways Fencing Signing Pavement Marking Lighting Traffic Signal Provisions Riprap

#### **Materials Testing**

Materials testing as identified as soils compaction tests will be provided by AET under this agreement.

#### 300 Project Closeout and Documentation

#### 301 Closeout Documentation

Contract administration and project documentation will be according to established City of Rapid City construction procedures. Final records will be transferred to the City of Rapid City to document quantities including pay reports, haul sheets, pay estimates and change orders as while as a final report of testing completed on the project.

# 302 As-Constructed Drawings

One complete set of record drawings will be prepared and provided to the City of Rapid City upon completion of the project along the documents in electronic format.