

## EXHIBIT C

### WORK AUTHORIZATION

WORK AUTHORIZATION NO.   4    
PROJECT:   RM 2243 Phase 2A  

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated January 14, 2020 and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and BGE, Inc. (the "Engineer").

Part 1. The Engineer will provide the following Engineering Services set forth in Attachment "B" of this Work Authorization.

Part 2. The maximum amount payable for services under this Work Authorization without modification is \$1,488,726.74.

Part 3. Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the Contract.

Part 4. This Work Authorization shall become effective on the date of final acceptance and full execution of the parties hereto and shall terminate on September 30, 2027. The Engineering Services set forth in Attachment "B" of this Work Authorization shall be fully completed on or before said date unless extended by a Supplemental Work Authorization.

Part 5. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

Part 6. County believes it has sufficient funds currently available and authorized for expenditure to finance the costs of this Work Authorization. Engineer understands and agrees that County's payment of amounts under this Work Authorization is contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to continue to make payments under this Contract. It is further understood and agreed by Engineer that County shall have the right to terminate this Contract at the end of any County fiscal year if the governing body of County does not appropriate sufficient funds as determined by County's budget for the fiscal year in question. County may effect such termination by giving written notice of termination to Engineer.

*Continued next page*

Part 7. This Work Authorization is hereby accepted and acknowledged below.

ENGINEER:

BGE, Inc.

COUNTY:

Williamson County

By: Eric Busker  
Signature

Eric Busker, P.E.  
Printed Name

Director  
Title

12/12/2025  
Date

By: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

LIST OF ATTACHMENTS

Attachment A - Services to be Provided by County

Attachment B - Services to be Provided by Engineer

Attachment C - Work Schedule

Attachment D - Fee Schedule

**ATTACHMENT A**  
**SERVICES TO BE PROVIDED BY THE COUNTY**  
**DESIGN SERVICES FOR RM 2243 – Phase 2A**

In general, Williamson County and its representatives to their best efforts will render services as follows:

1. Name, business address and phone number of County's project manager.
2. Assistance to the Engineer, as necessary, with obtaining data and information from other local, regional, State and Federal agencies required for this project.
3. Provide available appropriate County data on file, plans and specifications that are deemed pertinent to the completion of the work required by the scope of services (including previous hydraulic studies, models, previous reports and studies, available existing traffic counts, and design year traffic projections).
4. Provide available criteria and full information as to the client's requirements for the project. Provide examples of acceptable format for the required deliverables.
5. Provide timely reviews and decisions necessary for the Engineer to maintain the project work schedule. Review recommendations offered by the Engineer, progress of work, and final acceptance of all documents.
6. Submittal of documentation to regulatory agencies for review and comment, when specified.
7. Support project development efforts with stakeholders, coordinate meetings and interface with stakeholders, as needed.
8. Post and maintain project information for public consumption on the County website.
9. Assist with Coordination between the Engineer and the County's other subconsultants.
10. Negotiate with all utility companies for any agreements and/or relocations required.
11. Provide an agent as necessary to secure proposed ROW.
12. Review Engineer progress, submittals, and plan changes.

**ATTACHMENT B – WA 4**  
**SERVICES TO BE PROVIDED BY THE ENGINEER**

RM 2243 PHASE 2A

WILLIAMSON COUNTY

**GENERAL PROJECT OVERVIEW**

The work to be performed by the ENGINEER under this work authorization shall consist of providing plans, specifications and estimates (PS&E) and related documents, for the construction of RM 2243 Phase 2A from US 183A to Ronald Reagan Blvd in Williamson County. These services may include, but are not limit to, preparing roadway design, hydrologic and hydraulic design, environmental, and geotechnical data collection.

The scope of services for the RM 2243 Phase 2A project is organized as follows:

This project shall begin at US 183A and shall end just east of the Ronald Reagan intersection, primarily following the future eastbound frontage road. The scope of services for this work authorization shall include Plans, Specifications and Estimates (PS&E's) for the limits described above. Design the project for the 3-lane eastbound frontage road and conversion of previously constructed Phase 1A to a one-way westbound frontage road. Design shall be in accordance with all TxDOT accepted practices and plans prepared in TxDOT format.

**FUNCTION CODE 102 (110) – FEASIBILITY STUDIES**

- A. Complete Design Summary Form
  - a. Design criteria shall be in accordance with Williamson County, the City of Leander, and TxDOT criteria.
- B. Conceptual Layout (Pre-30%)
  - a. The ENGINEER, with input from the Williamson County, the City of Leander, and TxDOT, shall develop key issues and evaluation criteria to assist in evaluating alignment alternatives of the connection between the eastbound frontage and the westbound frontage road.
  - b. The pre-30% submittal shall be a roll plot plan and profile, with the intent to identify traffic operational elements such as future driveway locations, turnarounds, access points, etc. This layout shall be reviewed by Williamson County, TxDOT, and the City of Leander prior to the Engineer commencing 30%

PS&E design and deliverables.

C. Deliverables

- a. Design Summary Form
- b. Pre-30% Conceptual Layout

**FUNCTION CODE 120 (120) – ENVIRONMENTAL**

**A. Project Management and Coordination**

This task includes coordination with the design engineer, subconsultants, Williamson County, City of Leander, TxDOT, and resources agencies. This purpose of this task is to ensure decisions made during the NEPA planning phase are carried forward to PS&E. BGE environmental team will prepare meeting minutes for the project record.

**B. Water Pollution Abatement Plan (WPAP)**

- a. **Water Quality BMPs:** Impervious cover and runoff calculations, TSS removal calculations, and development of plan sheets for BMP details
- b. **Water Pollution Abatement Plan:** Development of WPAP and two rounds of reviews from TCEQ

**C. Environmental Permits, Issues and Commitments (EPIC)**

BGE will review the environmental documentation and determine what environmental permits, issues or commitments need to be communicated to the contractor. This includes any voluntary conservation measures or other commitments related to impacts on any environmental resource. BGE will prepare the EPIC sheet and include these obligations on the EPIC sheet for inclusion in the project plans.

**FUNCTION CODE 135 (135) – RIGHT-OF-WAY UTILITY ACTIVITIES**

- A. The ENGINEER may attend up to **18** monthly utility coordination calls with the utility coordinator.

**FUNCTION CODE 160 (160) – ROADWAY DESIGN**

**A. ROADWAY DESIGN CONTROLS (30%, 60%, 90%, 100% Submittals)**

- a. The Engineer shall inform the County of changes made from previous initial meetings regarding each exception, waiver, and variance that may affect the design. The Engineer shall cease all work under this task until the exceptions, waivers, and variances have been resolved between the Engineer and the County

unless otherwise directed by the County to proceed. The Engineer shall identify, prepare exhibits, and complete all necessary forms for Design Exceptions and Waivers within project limits prior to the 60% Submittal. These exceptions shall be provided to the County for coordination and processing of approvals.

## B. ROADWAY DESIGN

The Engineer shall use Bentley's OpenRoads Designer in the design and preparation of the roadway plan sheets.

The Engineer shall use the versions of MicroStation that are implemented at TxDOT at the time the work authorization is executed. However, TxDOT may approve the use of other versions.

The Engineer shall produce the following deliverables to be included in the general/roadway plan sheets.

- a. Title Sheet
- b. Index of Sheets
- c. Horizontal Alignment Data
- d. Project Layouts
  1. The Engineer shall prepare project layout sheets that identify the project area and limits of work.
- e. Roadway Plan and Profiles
  1. The Engineer shall provide roadway plan and profile drawings using CADD standards as required by the County. The drawings must consist of a planimetric file of existing features and files of the proposed improvements. The roadway base map must contain line work that depicts existing surface features obtained from the schematic drawing. Existing major subsurface and surface utilities must be shown if requested by the County. Existing and proposed right-of-way lines must be shown. Plan and Profile must be shown on separate or same sheets (this depends upon width of pavement) for frontage roads.
- f. Removal Plans
- g. Typical Sections

1. The Engineer shall prepare typical sections for all proposed and existing roadways and structures. Typical sections must include width of travel lanes, shoulders, border widths, curb offsets, and ROW. The typical section must also include Proposed Profile Grade Line (PGL), centerline, pavement design, longitudinal joints, side slopes, sodding or seeding limits, concrete traffic barriers and sidewalks, if required, station limits, common proposed and existing structures including retaining walls, existing pavement removal, riprap, limits of embankment and excavation, etc.

h. Cross Streets, Intersections, and Grading

1. The Engineer shall develop full details for each proposed/existing intersection to ensure each meets design and functional features and requirements.

i. Design Cross Sections & Cut and Fill Quantities

1. The Engineer shall develop an earthwork analysis to determine cut and fill quantities and provide final design cross sections at 100 foot intervals. Cross sections must be created from the 3D corridor model and must be delivered in the standard County format on 11"x17" sheets or roll plots and electronic files. The Engineer shall provide all templates and corridors used to generate the design cross sections. Cross sections and quantities must include existing pavement removals. Annotation shall include at a minimum existing and proposed ROW, side slopes (front & back), profiles, etc.

j. Driveway Details

1. The Engineer shall develop full details for each proposed/existing driveway to ensure each meets design and functional features and requirements.

The Engineer shall submit electronic versions of drawings at the 60%, 90%, and final submittals, respectively. The Engineer shall also submit the current OpenRoads Designer generated 3D corridor model for the 60%, 90%, and 100% submittals.

The Engineer shall prepare roadway plans, profiles and typical sections for the proposed improvements. The profile and cross sections must depict the 2, 5, 10, 25, 50, 100 and 500-year (if available) water surface elevations. The drawings will provide

an overall view of the roadway and existing ground elevations with respect to the various storm design frequencies for the length of the project. This will enable the County to determine the most feasible proposed roadway profile. The County will approve the proposed profiles, 3D corridor models, and cross sections before the Engineer continues with the subsequent submittals. This scope of services and the corresponding cost proposal are based on the Engineer preparing plans to frontage roads. The roadway plans must consist of the types and be organized in the sequence as described in the PS&E Preparation manual.

Deliverables:

- Title Sheet
- Alignment Data Sheets
- Project Layout
- Plan and Profile sheets (1"=100')
- Removal Plans
- Typical Sections
- Intersection Details
- Design Cross Sections
- Driveway Details

**FUNCTION CODE 160 (161) – DRAINAGE**

A. Complex Hydraulic Design and Documentation

- a. Perform hydraulic design and analysis using appropriate hydraulic methods, which may include computer models such as HEC-RAS and HY-8. 2D models shall not be developed without the express permission of the County. Data entry for appropriate hydraulic computer programs shall consist of a combination of both on-the-ground survey and other appropriate sources including but not existing hydrologic studies, as-built data, USGS maps, and TNRS LiDAR information.

- b. Use the current effective FEMA models, where appropriate, as a base model for the analysis. If a “best available data” model is provided by the local floodplain administrator, it must be utilized accordingly for this analysis. Review the provided base model for correctness and update as needed. If the provided effective model is not in a HEC-RAS format, convert it to HEC-RAS for this analysis.
  - c. Quantify impacts, beneficial or adverse, in terms of increases in peak flow rates and water surface elevations for the above listed hydraulic conditions and hydrologic events. Impacts will be determined both upstream and downstream of the bridge crossings.
  - d. Use hydrograph calculations and peak flows to determine the storage required.
- B. Cross-Drainage Structures
- a. Determine drainage areas and flows for cross culvert drainage systems.
  - b. Determine the sizing of the drainage crossings. The scope may include extending, adjusting or replacing non bridge-class culvert crossing or crossings.
  - c. Develop designs that minimize the interference with the passage of traffic or cause damage to the highway and local property in accordance with the State’s Hydraulic Design Manual, District criteria and any specific guidance provided by the County. Cross drainage design shall be performed using HY-8 or HEC RAS.
- C. Water Quality
- a. Prepare a Water Pollution Abatement Plan for a project within the Edwards Aquifer Recharge Zone and Contributing Zone per TCEQ Edwards Aquifer Protection Plan Regulations and RG-348 technical guidance. Develop proposed BMPs to treat 80% of the increase in TSS per TG-348 technical guidance. Prepare WPAP application and supporting documents.
- D. Environmental Permits

- a. The Engineer shall notify the State project manager when site conditions may require environmental permits such as Nationwide Permit, §404 Individual Permits (including mitigation and monitoring) and U. S. Coast Guard and U.S. Army Corps of Engineers §10 Permits.
- E. Preliminary Bridge Layout Review (PBLR)
- a. For three (3) Bridge Class Culverts, the Engineer shall prepare plans and models for review through TxDOT's Preliminary Bridge Layout Review (PBLR). The Engineer shall submit for PBLR during the TxDOT 30% and 60% design stage.

Deliverables:

- External Drainage Area Maps
- Internal Drainage Area Maps
- Hydraulic Data Sheets
- Culvert Layout P&P Sheets
- Storm Sewer and Drainage P&P Sheets
- Ditch calculation sheets
- Detention and Grading Plan Sheets
- Water Quality BMP plan sheets
- WPAP application
- Drainage Details and Standards
- PBLR Documents

Exclusions:

- H&H Drainage Reports
- 3D models of bridge-class culverts

**FUNCTION CODE 160 (162) – SIGNING AND PAVEMENT MARKINGS**

## A. SIGNING

- a. The Engineer shall prepare drawings, specifications, and details for all signs. The Engineer shall coordinate with the County (and other Engineers as required) for overall temporary, interim and final signing strategies and placement of signs outside contract limits.
- b. Prepare sign detail sheets for guide signs showing dimensions, lettering, shields, borders, corner radii, etc., and shall provide a summary signs to be removed, relocated, or replaced.
- c. Designate the shields to be attached to guide signs.
- d. Illustrate and number the proposed signs on plan sheets.
- e. Select each sign foundation from State Standards.

## B. PAVEMENT MARKING

- a. The Engineer shall detail both permanent and temporary pavement markings and channelization devices on plan sheets. The Engineer shall coordinate with the County (and other Engineers as required) for overall temporary, interim, and final pavement marking strategies. The Engineer shall select Pavement markings from the latest State standards.
- b. The Engineer shall provide a 3D corridor model with the proposed pavement marking stenciled onto the model.

### Deliverables:

- Signing and Pavement Marking Layouts (1"=100')
- Small Sign Details

## FUNCTION CODE 160 (163) - MISCELLANEOUS (ROADWAY)

### A. Traffic Control Plan, Detours, Sequence of Construction.

- a. It is anticipated that TCP shall consist of Phase 1: Construction of future EBFR, Phase 2: Intersections at 183A and Ronald Reagan Blvd, and Phase 3: Overlay and

restriping of the RM 2243 P1A westbound frontage road. The Engineer shall prepare Traffic Control Plans (TCP) including TCP typical sections, for the project. The Engineer shall implement the current Barricade and Construction (BC) standards and TCP standards as applicable. The Engineer shall:

- i. Provide a written narrative of the construction sequencing and work activities per phase and determine the existing and proposed traffic control devices (regulatory signs, warning signs, guide signs, route markers, construction pavement markings, barricades, flag personnel, temporary traffic signals, etc.) to be used to handle traffic during each construction sequence. The Engineer shall show proposed traffic control devices at grade intersections during each construction phase (stop signs, flagperson, signals, etc.). The Engineer shall show temporary roadways, ramps, structures and detours required to maintain lane continuity throughout the construction phasing. If temporary shoring is required, prepare layouts and show the limits on the applicable TCP.
- ii. Develop each TCP to provide continuous, safe access to each adjacent property during all phases of construction and to preserve existing access. The Engineer shall notify the County in the event existing access must be eliminated, and must receive approval from the County prior to any elimination of existing access.
- iii. Prepare each TCP in coordination with the County. The TCP must include interim signing for every phase of construction. Interim signing must include regulatory, warning, construction, route, and guide signs.
- iv. Maintain continuous access to abutting properties during all phases of the TCP. The Engineer shall develop a list of each abutting property along its alignment. The Engineer shall prepare exhibits for and attend meetings with the public, as requested by the County.

- v. Make every effort to prevent detours and utility relocations from extending beyond the proposed Right-of-way lines. If it is necessary to obtain additional permanent or temporary easements and Right-of-Entry, the Engineer shall notify the County in writing of the need and justification for such action. The Engineer shall identify and coordinate with all utility companies for relocations required.
- vi. Describe the type of work to be performed for each phase of sequence of construction and any special instructions (e.g. storm drain, culverts, bridges, railing, illumination, signals, retaining walls, signing, paving surface sequencing or concrete placement, ROW restrictions, utilities, etc.) that the contractor should be made aware to include limits of construction, obliteration, and shifting or detouring of traffic prior to the proceeding phase.
- vii. Include the work limits, the location of channelizing devices, positive barrier, location and direction of traffic, work area, stations, pavement markings, and other information deemed necessary for each phase of construction.

B. Storm Water Pollution Prevention Plans (SWP3)

- a. The Engineer shall develop SWP3, on separate sheets from (but in conformance with) the TCP, to minimize potential impact to receiving waterways. The SWP3 must include text describing the plan, quantities, type, phase and locations of erosion control devices and any required permanent erosion control.

C. Compute and Tabulate Quantities

- a. The Engineer shall provide the summaries and quantities within all formal submittals.

D. Estimate

- a. The Engineer shall independently develop and report quantities necessary to construct the contract in standard County bid format at the specified milestones and Final PS&E submittals. The Engineer shall prepare each construction cost estimates using Estimator or any approved method. The estimate shall be provided at each milestone submittal.

E. Construction Time Determination

- a. The Engineer shall prepare a detailed construction time estimate to determine the approximate time required for construction of the project in calendar and working days (based on the State standard definitions of calendar and working days) at the 90% and Final PS&E milestone. The schedule must include tasks, subtasks, critical dates, milestones, deliverables, and review requirements in a format which depicts the interdependence of the various items and adjacent construction packages. The Engineer shall provide assistance to the County in interpreting the schedule.

F. Constructability Review

- a. The Engineer shall provide Independent Quality Review of the constructability of the PS&E sets. The Engineer shall perform constructability reviews at major project design milestones (e.g. 60%, 100%, and final plan) to identify potential constructability issues and options that would provide substantial time savings during construction.
- b. The constructability review must be performed for all roadway and structural elements such as Sequence of Work and Traffic Control, Drainage (Temporary and Permanent), Storm Water Pollution Prevention Plan (SWP3), Environmental Permits, Issues and Commitments (EPIC) addressed, identify Utility conflicts; ensuring accuracy and appropriate Special Provisions, Contract Time/Schedule, Standards; and providing detailed comments in an approved format. Reviews

must be captured in a Constructability Log identifying areas of concern and potential conflict.

- c. The Engineer shall provide the results of all Constructability reviews and recommendations to the County at major project design milestone submittals.

#### G. Bidding Phase Services

- a. Prepare all applicable construction documents for bidding including final signed and sealed plans with any joint bid utility plans incorporated; final general notes, specification list, special specifications and signed & sealed cover for the project construction manual. Final construction time determination which also includes any joint bid utilities.
- b. Attend the pre-bid meeting. Respond to bidders' questions during the bid period. Prepare project addenda during bid period. Analyze contractor bids, prepare bid tabulation, and make recommendation for award to the apparent low bidder. Attend the pre-construction conference.

#### Deliverables:

- Prepare submittal packages at 30%, 60%, 90%, 100%, and Final
- Traffic Control Plans
- SW3P Plans
- Quantity and Summary Sheets
- Construction Cost Estimate
- General Notes
- Bid Form
- Specification List
- Special Specifications
- Design Consultant Form
- Construction Time Determination

- Addenda as necessary
- Bid analysis and recommendation for award

## **FUNCTION CODE 145 (164) - PROJECT MANAGEMENT**

### **A. COMMUNICATION:**

- a. Shall designate one Licensed Professional Engineer (Texas) to be responsible for the project management, and all communications with the County and its representatives.

### **B. MONTHLY PROGRESS REPORTS, INVOICES, AND BILLINGS (21 months):**

- a. Submit monthly progress status reports to the GEC. Progress reports will include: tasks completed, tasks/objectives that are planned for the upcoming periods, lists or descriptions of items or decisions needed from the County and its representatives. Subconsultant progress will be incorporated into the monthly progress report. A copy of the monthly progress report will be uploaded to ProjectWise.
- b. Prepare correspondence, invoices, and progress reports on a monthly basis in accordance with current County requirements.

### **C. PROJECT COORDINATION & ADMINISTRATION:**

- a. Prepare and maintain routine project record keeping including records of meetings.
- b. Correspondence and coordination will be handled through and with the concurrence of the GEC.
- c. Manage project activities (including documenting emails, phone and conference calls, maintain project files for the length of the project, meeting agendas, meeting minutes, and schedule meetings), direct Engineer's team/staff, correspond with the County and its representatives, and assist the County and its representatives in preparing responses to project-related inquiries.

D. PROGRESS/COORDINATION MEETINGS ([30] external meetings assumed):

- a. Attend a kickoff meeting and coordination/progress meeting with the County and its representatives and stakeholders, as necessary to communicate development of the project and design issues.
- b. Prepare agenda and sign-in sheets for external coordination/progress meetings.
- c. Prepare meeting minutes for review via email within three (3) business days of the external coordination/progress meeting.
- d. Conduct internal coordination meetings as required to advance the development of the project.
- e. Coordinate with affected local agencies, County's consultants, and affected property owners.
- f. Attend design meeting with TxDOT and respond to TxDOT submittal comments.

E. PROJECT SCHEDULE:

- a. Maintain a project schedule indicating tasks, subtasks, critical dates, milestones, and deliverables.

DELIVERABLES:

- Monthly Invoices and Progress Reports
- Project Specific QA/QC Plan
- Meeting Minutes, Sign-In Sheets, and Agendas
- Project Schedule

EXCLUSIONS

- Route and Design Studies
- Schematic Development
- Design Exceptions or Waivers
- Openroads Designer 3D Traffic Control Plan models

- Construction Management Plan
- Construction Phase Services
- CLOMR and LOMR
- Enclosed drainage design
- Retaining wall design
- Additional TCP phasing
- Right-of-way staking
- Development of Parcel Acquisition Documents, metes/bounds descriptions, or legal descriptions



ATTACHMENT D - FEE SCHEDULE

PRIME PROVIDER NAME: BGE, Inc  
 PROJECT NAME:RM 2243  
 Phase 2A PS&E  
 12/10/2025

PROJECT SUMMARY		
Firm	Amount	Percent
BGE, Inc.	\$1,488,726.74	100.0%
<b>Total</b>	<b>\$1,488,726.74</b>	<b>100.0%</b>

SUMMARY BY FIRM & FUNCTION CODE			
		Firm	
		BGE, Inc. (PS&E)	Function Code Sub-Totals
Function Code			
FC 102 (110) - ROUTE & DESIGN STUDIES	Total Labor Cost	\$47,435.64	\$47,435.64
	Total Labor Cost (Unit Cost)		\$0.00
FC 120 (120) - SOCIAL, ECON AND ENVIRON STUDIES AND PUBLIC INVOLVEMENT	Total Labor Cost	\$54,823.06	\$54,823.06
	Other Direct Expenses		\$0.00
FC 135 (135) - RIGHT-OF-WAY UTILITIY ACTIVITIES	Total Labor Cost	\$9,351.90	\$9,351.90
	Other Direct Expenses		\$0.00
FC 160 (160) - ROADWAY DESIGN CONTROLS	Total Labor Cost	\$384,672.06	\$384,672.06
	Other Direct Expenses		\$0.00
FC 160 (161) - DRAINAGE	Total Labor Cost	\$383,225.11	\$383,225.11
	Other Direct Expenses		\$0.00
FC 160 (162) - SIGNING, PAVEMENT MARKINGS AND SIGNALIZATION	Total Labor Cost	\$77,746.56	\$77,746.56
	Other Direct Expenses		\$0.00
FC 160 (163) - MISCELLANEOUS (ROADWAY)	Total Labor Cost	\$413,672.49	\$413,672.49
	Other Direct Expenses		\$0.00
FC 145 (164) - PROJECT MANAGEMENT AND ADMINISTRATION	Total Labor Cost	\$107,329.92	\$107,329.92
	Other Direct Expenses	\$10,470.00	\$10,470.00
<b>TOTAL</b>		<b>\$1,488,726.74</b>	<b>\$1,488,726.74</b>

PRIME PROVIDER NAME: BGE, Inc  
PROJECT NAME: RM 2243  
Phase 2A PS&E  
12/10/2025

PRIME PROVIDER: BGE, Inc.

TASK DESCRIPTION	PRINCIPAL/DIRECTOR	SENIOR PROJECT MANAGER	QC MANAGER	SENIOR STRUCTURAL ENGINEER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	GRADUATE ENGINEER	SENIOR TECHNICAL ADVISOR	SENIOR DESIGN TECHNICIAN	DESIGN TECH	SENIOR CADD OPERATOR	CADD OPERATOR	ENVIRONMENTAL QA/QC MANAGER	ENVIRONMENTAL TASK LEADER	ENVIRONMENTAL SCIENTIST	SURVEY RPLS	SURVEY FIELD CREW	ADMIN / CLERICAL	TOTAL HRS. & COSTS	COST PER TASK	
<b>CONTRACT RATE PER HOUR</b>	<b>\$ 350.40</b>	<b>\$ 283.94</b>	<b>\$ 326.23</b>	<b>\$ 274.00</b>	<b>\$ 265.82</b>	<b>\$ 235.61</b>	<b>\$ 195.00</b>	<b>\$ 157.08</b>	<b>\$ 190.00</b>	<b>\$ 198.16</b>	<b>\$ 144.99</b>	<b>\$ 132.91</b>	<b>\$ 96.66</b>	<b>\$283.94</b>	<b>\$229.57</b>	<b>\$151.03</b>	<b>\$ 229.57</b>	<b>\$ 205.41</b>	<b>\$ 102.70</b>			
<b>FUNCTION CODE 102 (110) – FEASIBILITY STUDIES</b>																						
<b>ROUTE &amp; DESIGN STUDIES</b>																						
DATA COLLECTION AND FIELD RECONNAISSANCE					4	4	4	4		8											24	\$ 4,999.32
FIELD RECONNAISSANCE (2 Trips)																					0	\$ -
DESIGN CRITERIA					1	2	2	4													9	\$ 1,755.36
PREPARE DESIGN SUMMARY REPORT (DSR)																					208	\$ 40,680.96
Conceptual Layout (Pre-30%)	2	8	4		2	48	64	40			40										0	\$ -
HOURS SUB-TOTALS	2	8	4	0	7	54	70	48	0	8	40	0	0							0	241	
<b>SUBTOTAL FC 102 (110)</b>	<b>\$700.80</b>	<b>\$2,271.52</b>	<b>\$1,304.92</b>	<b>\$0.00</b>	<b>\$1,860.74</b>	<b>\$12,722.94</b>	<b>\$13,650.00</b>	<b>\$7,539.84</b>	<b>\$0.00</b>	<b>\$1,585.28</b>	<b>\$5,799.60</b>	<b>\$0.00</b>	<b>\$0.00</b>						<b>\$0.00</b>		<b>\$47,435.64</b>	<b>\$47,435.64</b>
<b>FUNCTION CODE 120 (120) – SOCIAL/ECON/ENVIRON STUDIES</b>																						
<b>SOCIAL, ECON AND ENVIRON STUDIES AND PUBLIC INVOLVEMENT</b>																						
PROJECT MANAGEMENT AND COORDINATION	2	8												3	26	36					75	\$ 15,230.04
WATER POLLUTION ABATEMENT PLAN		8			12	32	48	60													160	\$ 31,785.68
ENVIRONMENTAL PERMITS, ISSUES, AND COMMITMENTS (EPICS)	2	8					4	12		4					6						36	\$ 7,807.34
HOURS SUB-TOTALS	4	24	0	0	12	32	52	72	0	4	0	0	0	3	32	36	0	0	0	0	271	
<b>SUBTOTAL FC 120 (120)</b>	<b>\$1,401.60</b>	<b>\$6,814.56</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$3,189.84</b>	<b>\$7,539.52</b>	<b>\$10,140.00</b>	<b>\$11,309.76</b>	<b>\$0.00</b>	<b>\$792.64</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$851.82</b>	<b>\$7,346.24</b>	<b>\$5,437.08</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>		<b>\$54,823.06</b>	<b>\$54,823.06</b>
<b>FUNCTION CODE 135 (135) – RIGHT-OF-WAY UTILITY ACTIVITIES</b>																						
<b>RIGHT OF WAY DATA UTILITY ENGINEERING INVESTIGATION ALONG WITH UTILITY COORDINATION AND ACCOMMODATION</b>																						
MONTHLY COORDINATION CALLS WITH UTILITY COORDINATOR (18 assumed)		18				18															36	\$ 9,351.90
HOURS SUB-TOTALS	0	18	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	
<b>SUBTOTAL FC 130 (130)</b>	<b>\$0.00</b>	<b>\$5,110.92</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$4,240.98</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$9,351.90</b>	<b>\$9,351.90</b>
<b>FUNCTION CODE 160 (160) – ROADWAY DESIGN</b>																						
<b>ROADWAY DESIGN CONTROLS</b>																						
TITLE SHEET		1	1				2	2		8											14	\$ 2,899.61
INDEX OF SHETS		1	1		2	2	4	4		20											34	\$ 6,984.55
HORIZONTAL ALIGNMENT DATA		4	2			4	6	6		28											50	\$ 10,391.62
PROJECT LAYOUTS			2			4	12	16		24											58	\$ 11,204.02
ROADWAY P&Ps (1"=100')	2	6	24	0	24	60	120	110	6	100	20										472	\$ 95,284.84
REMOVAL PLANS		2	12		6	8	12	24		60											124	\$ 25,961.96
OPENROADS 3D MODEL (4 Models)		8	8		16	40	80	80	8	96											336	\$ 67,268.64
TYPICAL SECTIONS	1	8	16		4	16	20	20		40	8										133	\$ 28,802.56
CROSS STREETS, INTERSECTIONS, GRADING		8	16		20	50	80	80		80	32										366	\$ 73,246.98
DESIGN CROSS SECTIONS		4	2		8	20	24	24		60											142	\$ 28,966.50
CUT AND FILL QUANTITIES		4			2	8				40											54	\$ 11,478.68
DRIVEWAY DETAILS		1	2			10	24	40		40											117	\$ 22,182.10
HOURS SUB-TOTALS	3	47	86	0	82	222	384	406	14	596	60	0	0	0	0	0	0	0	0	0	1900	
<b>SUBTOTAL FC 160 (160)</b>	<b>\$1,051.20</b>	<b>\$13,345.18</b>	<b>\$28,055.78</b>	<b>\$0.00</b>	<b>\$21,797.24</b>	<b>\$52,305.42</b>	<b>\$74,880.00</b>	<b>\$63,774.48</b>	<b>\$2,660.00</b>	<b>\$118,103.36</b>	<b>\$8,699.40</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$384,672.06</b>	<b>\$384,672.06</b>
<b>FUNCTION CODE 160 (161) – ROADWAY DESIGN</b>																						
<b>DRAINAGE</b>																						
EXTERNAL DRAINAGE AREA MAPS		1	4		8	20	20	20													73	\$ 15,469.22
INTERNAL DRAINAGE AREA MAPS		1	6		30	40	40	80													197	\$ 40,006.72
(8) CULVERT PLAN & PROFILES		4	8		40	40	40	60													192	\$ 41,027.60
CULVERT ANALYSIS DATA SHEETS		1	8		20	40	40	40													149	\$ 31,717.78
DITCH CALCULATIONS & SHEETS		1	3		20	40	40	40													144	\$ 30,086.63
WATER POLLUTION ABATEMENT PLAN (WPAP)		1	8		20	20	60	60													169	\$ 34,047.18
WATER QUALITY BMP DETAILS		2	12		20	20	40	40													134	\$ 28,594.44
DRAINAGE DETAILS		2	8		10	20	20	20													80	\$ 17,589.72
CULVERT HYDRAULIC MODELS (HY8)		1	8		20	40	40	40													149	\$ 31,717.78
HYDROLOGIC AND DETENTION ANALYSIS		1	8		40	40	40	40													169	\$ 37,034.18
HEC-RAS MODELS (3 crossings)		1	4		40	40	24	20													129	\$ 29,467.66
PBLR DOCUMENTS		2	16		28	48	48	80													222	\$ 46,466.20
HOURS SUB-TOTALS	0	18	93	0	296	408	452	540	0	0	0	0	0	0	0	0	0	0	0	0	1807	
<b>SUBTOTAL FC 160 (161)</b>	<b>\$0.00</b>	<b>\$5,110.92</b>	<b>\$30,339.39</b>	<b>\$0.00</b>	<b>\$78,682.72</b>	<b>\$96,128.88</b>	<b>\$88,140.00</b>	<b>\$84,823.20</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$383,225.11</b>	<b>\$383,225.11</b>

PRIME PROVIDER NAME: BGE, Inc  
PROJECT NAME: RM 2243  
Phase 2A PS&E  
12/10/2025

PRIME PROVIDER: BGE, Inc.

TASK DESCRIPTION	PRINCIPAL/DIRECTOR	SENIOR PROJECT MANAGER	QC MANAGER	SENIOR STRUCTURAL ENGINEER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	GRADUATE ENGINEER	SENIOR TECHNICAL ADVISOR	SENIOR DESIGN TECHNICIAN	DESIGN TECH	SENIOR CADD OPERATOR	CADD OPERATOR	ENVIRONMENTAL QA/QC MANAGER	ENVIRONMENTAL TASK LEADER	ENVIRONMENTAL SCIENTIST	SURVEY RPLS	SURVEY FIELD CREW	ADMIN / CLERICAL	TOTAL HRS. & COSTS	COST PER TASK		
CONTRACT RATE PER HOUR	\$ 350.40	\$ 283.94	\$ 326.23	\$ 274.00	\$ 265.82	\$ 235.61	\$ 195.00	\$ 157.08	\$ 190.00	\$ 198.16	\$ 144.99	\$ 132.91	\$ 96.66	\$ 283.94	\$ 229.57	\$ 151.03	\$ 229.57	\$ 205.41	\$ 102.70				
<b>FUNCTION CODE 160 (162) – ROADWAY DESIGN</b>																							
<b>SIGNING, PAVEMENT MARKINGS AND SIGNALIZATION (PERMANENT)</b>																							
SMALL SIGN SUMMARIES			4			6	20	20			20										70	\$ 12,659.98	
SMALL SIGN DETAILS			2			8	16	16			12										54	\$ 9,910.50	
SIGNING AND PAVEMENT MARKINGS LAYOUTS	2	6	12		14	20	40	60			160										314	\$ 55,176.08	
HOURS SUB-TOTALS	2	6	18	0	14	34	76	96	0	0	192	0	0	0	0	0	0	0	0	0	438		
<b>SUBTOTAL FC 160 (162)</b>	<b>\$700.80</b>	<b>\$1,703.64</b>	<b>\$5,872.14</b>	<b>\$0.00</b>	<b>\$3,721.48</b>	<b>\$8,010.74</b>	<b>\$14,820.00</b>	<b>\$15,079.68</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$27,838.08</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$77,746.56</b>	<b>\$77,746.56</b>	
<b>FUNCTION CODE 160 (163) – ROADWAY DESIGN</b>																							
<b>MISCELLANEOUS (ROADWAY)</b>																							
TCP GENERAL NOTES						2	3	3	3		5										16	\$ 2,822.41	
TCP CONSTRUCTION SEQUENCE / NARRATIVE		6	2		4	6	6	8	4		16										52	\$ 10,339.52	
TCP TYPICAL SECTIONS			2		4	6	6	16	4		40										78	\$ 13,372.28	
TCP PHASING LAYOUTS - 2 Phases	2	8	4		8	32	40	48	8	60	20										230	\$ 45,592.56	
TCP ADVANCED WARNING SIGN LAYOUT			2		3			12		12	18										47	\$ 8,322.62	
SW3P PLAN			4		5	12	24	60		25	25										155	\$ 28,144.89	
SW3P DETAIL			3		1						6										10	\$ 2,114.45	
QUANTITIES		2	6		6	12	26	60													112	\$ 21,442.30	
SUMMARY SHEETS			4		8	12	32			22	14										92	\$ 16,945.74	
COST ESTIMATE	2	8	6		8	10	10	14													58	\$ 13,561.48	
CONSTRUCTION TIME DETERMINATION	2	5	3		6	50	10	10													86	\$ 19,995.41	
SPECIFICATIONS AND GENERAL NOTES (60%, 95%, 100%)					6	25	35	65		3	6										140	\$ 25,984.79	
CONSTRUCTABILITY REVIEW (60%, 95%, 100%)			80																		80	\$ 26,098.40	
BID FORM			1			2	16	24													43	\$ 7,687.37	
DESIGN CONSULTANT FORM					1	2	4														7	\$ 1,517.04	
STANDARDS			1				4			32	22										59	\$ 10,637.13	
QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) (Pre-30%, 30%, 60%, 90%, 100%)		24	100		50																174	\$ 52,728.56	
PREPARE SUBMITTALS (Pre-30%, 30%, 60%, 90%, 100%)	4	16				20	36	50			54								32		212	\$ 36,646.70	
MISCELLANEOUS FORMS			2			10	30	40													82	\$ 15,141.76	
ADJACENT DEVELOPMENT REVIEW					8		12	40		24											84	\$ 15,505.60	
BIDDING PHASE SERVICES																					0		
PREPARE BID PACKAGE						6	12			16											34	\$ 6,924.22	
PREPARE CONSTRUCTION MANUAL			2			8	40														50	\$ 10,337.34	
ATTEND PRE-BID MEETING		2				2															4	\$ 1,039.10	
RESPOND TO BIDDER'S QUESTIONS		2				4	16	16													38	\$ 7,143.60	
PREPARE ADDENDA						6	16			24											46	\$ 9,289.50	
PREPARE BID TABULATION						4		12													16	\$ 2,827.40	
RECOMMENDATION OF AWARD						2															2	\$ 471.22	
ATTEND PRE-CONSTRUCTION CONFERENCE		2				2															4	\$ 1,039.10	
HOURS SUB-TOTALS	10	75	222	0	110	231	358	510	19	218	226	0	0	0	0	0	0	0	0	32	2011		
<b>SUBTOTAL FC 160 (163)</b>	<b>\$3,504.00</b>	<b>\$21,295.50</b>	<b>\$72,423.06</b>	<b>\$0.00</b>	<b>\$29,240.20</b>	<b>\$54,425.91</b>	<b>\$69,810.00</b>	<b>\$80,110.80</b>	<b>\$3,610.00</b>	<b>\$43,198.88</b>	<b>\$32,767.74</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$3,286.40</b>	<b>\$413,672.49</b>	<b>\$413,672.49</b>	
<b>FUNCTION CODE 145 (164) – MANAGING CONTRACTED/DONATED PE</b>																							
<b>PROJECT MANAGEMENT AND ADMINISTRATION</b>																							
PREPARE MONTHLY PROGRESS REPORTS		12				24															12	48	\$ 10,294.32
PROJECT COORDINATION & ADMINISTRATION, INTERNAL PROGRESS MEETINGS, INCLUDING SUB-CONSULTANT COORDINATION (EST. 21 MONTHS)	12	48			60	60															180	\$ 47,919.72	
DEVELOP AND MAINTAIN PROJECT DESIGN SCHEDULE	1	8			8	20															37	\$ 9,460.68	
ATTEND REVIEW MEETINGS (Pre-30%, 30%, 60, 90%)	8	16			16	16															56	\$ 15,369.12	
PREPARE AND DOCUMENT CORRESPONDENCE	12	24			24	24														12	96	\$ 24,286.08	
HOURS SUB-TOTALS	33	108	0	0	108	144	0	0	0	0	0	0	0	0	0	0	0	0	0	24	417		
<b>SUBTOTAL FC 145 (145, 164)</b>	<b>\$11,563.20</b>	<b>\$30,665.52</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$28,708.56</b>	<b>\$33,927.84</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$2,464.80</b>	<b>\$107,329.92</b>	<b>\$107,329.92</b>	
<b>TOTAL HOURS</b>	<b>54</b>	<b>304</b>	<b>423</b>	<b>0</b>	<b>629</b>	<b>1,143</b>	<b>1,392</b>	<b>1,672</b>	<b>33</b>	<b>826</b>	<b>518</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>32</b>	<b>36</b>	<b>0</b>	<b>0</b>	<b>56</b>	<b>7,121</b>			
<b>CONTRACT RATE PER HOUR</b>	<b>\$ 350.40</b>	<b>\$ 283.94</b>	<b>\$ 326.23</b>	<b>\$ 274.00</b>	<b>\$ 265.82</b>	<b>\$ 235.61</b>	<b>\$ 195.00</b>	<b>\$ 157.08</b>	<b>\$ 190.00</b>	<b>\$ 198.16</b>	<b>\$ 144.99</b>	<b>\$ 132.91</b>	<b>\$ 96.66</b>	<b>\$ 283.94</b>	<b>\$ 229.57</b>	<b>\$ 151.03</b>	<b>\$ 229.57</b>	<b>\$ 205.41</b>	<b>\$ 102.70</b>				
<b>SUBTOTAL LABOR EXPENSES</b>	<b>\$ 18,921.60</b>	<b>\$ 86,317.76</b>	<b>\$ 137,995.29</b>	<b>\$ -</b>	<b>\$ 167,200.78</b>	<b>\$ 269,302.23</b>	<b>\$ 271,440.00</b>	<b>\$ 262,637.76</b>	<b>\$ 6,270.00</b>	<b>\$ 163,680.16</b>	<b>\$ 75,104.82</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 851.82</b>	<b>\$ 7,346.24</b>	<b>\$ 5,437.08</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,751.20</b>	<b>\$1,478,256.74</b>			

PRIME PROVIDER NAME: BGE, Inc  
PROJECT NAME: RM 2243  
Phase 2A PS&E  
12/10/2025

PRIME PROVIDER: BGE, Inc.

TASK DESCRIPTION	PRINCIPAL/ DIRECTOR	SENIOR PROJECT MANAGER	QC MANAGER	SENIOR STRUCTURAL ENGINEER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	GRADUATE ENGINEER	SENIOR TECHNICAL ADVISOR	SENIOR DESIGN TECHNICIAN	DESIGN TECH	SENIOR CADD OPERATOR	CADD OPERATOR	ENVIRONMENTAL QA/QC MANAGER	ENVIRONMENTAL TASK LEADER	ENVIRONMENTAL SCIENTIST	SURVEY RPLS	SURVEY FIELD CREW	ADMIN/ CLERICAL	TOTAL HRS. & COSTS	COST PER TASK	
CONTRACT RATE PER HOUR	\$ 350.40	\$ 283.94	\$ 326.23	\$ 274.00	\$ 265.82	\$ 235.61	\$ 195.00	\$ 157.08	\$ 190.00	\$ 198.16	\$ 144.99	\$ 132.91	\$ 96.66	\$283.94	\$229.57	\$151.03	\$ 229.57	\$ 205.41	\$ 102.70			
<b>DIRECT EXPENSES</b>	<b>QUANTITY</b>	<b>COST/UNIT</b>	<b>UNIT</b>					<b>TOTAL</b>														
MILEAGE	100	0.70	mile					\$ 70.00														
WPAP Application Fee	1	10,000	EA					\$ 10,000.00														
Lodging/Hotel - Taxes and Fees			day/person					\$ -														
Lodging/Hotel - Taxes and Fees not included			day/person					\$ -														
Meals (Excluding alcohol & tips) (Overnight stay required)			day/person					\$ -														
Air Travel - In State - 2+ Wks notice (Coach)			Rd Trip/person					\$ -														
Rental Car (includes taxes and fees; insurance costs will not be reimbursed)			day					\$ -														
Rental Car Fuel			gallon					\$ -														
Taxi/ Cab fare (Includes Rideshare)			each/person					\$ -														
Bus Travel over 100 miles			Rd Trip/person					\$ -														
Toll charges			day					\$ -														
SUV or ATV Rental (includes taxes and fees; insurance costs will not be reimbursed)			day					\$ -														
CDs			each					\$ -														
USB Flashdrive (up to 32 GB)			each					\$ -														
External Hard Drive			each					\$ -														
Standard Postage			letter					\$ -														
Cardstock Color (8 1/2" X 11")			each					\$ -														
Photocopies B/W (11"x17")	2,000	0.10	each					\$ 200.00														
Photocopies B/W (8 1/2"x11")			each					\$ -														
Photocopies Color (11"x17")			each					\$ -														
Photocopies Color (8 1/2" x 11")			each					\$ -														
Plots (B/W on Bond)			per sq. ft.					\$ -														
Plots (Color on Bond)			per sq. ft.					\$ -														
Plots (Color on Photographic Paper)			per sq. ft.					\$ -														
Report Binding and tabbing			each					\$ -														
Certified Letter Return Receipt			each					\$ -														
Overnight Mail - letter size			each					\$ -														
Overnight Mail - oversized box			each					\$ -														
Materials and Shipping			per package					\$ -														
Courier Services	4	50	each					\$ 200.00														
<b>SUBTOTAL DIRECT EXPENSES</b>								<b>\$ 10,470.00</b>														
<b>GRAND TOTAL</b>								<b>\$ 1,488,726.74</b>														