

WORK ORDER NO. 25-04

This Work Order No. 25-04 is made as of this _____ day of _____, 2025, under the terms and conditions established in the Master Agreement between Client and Professional Consultant dated February 08, 2024 (the "Master Services Agreement" between City of Bel Aire, Kansas (Client) and Professional Engineering Consultants, P.A. (PEC). Per the Master Services Agreement, this Work Order shall be incorporated into the Master Services Agreement by reference. Except to the extent modified herein for this specific project, all terms and conditions of the Master Services Agreement shall continue in full force and effect.

SECTION A – SERVICES

A.1 PEC shall perform the following services (collectively, the "Services"):

1. See attached Exhibit A, Section C.

A.3 Exclusions:

1. See attached Exhibit A, Section F.

SECTION B – SCHEDULE

PEC shall perform the Services and deliver the above documents according to the following:

1. See attached Exhibit A, Section B.

SECTION C – COMPENSATION

In return for the proper performance by Consultant of its Services, Client shall pay to PEC on a standard hourly basis not-to-exceed Two Hundred Twenty-Five Thousand Dollars

(\$225,000.00), payable according to the following terms:

1. See attached Exhibit A, Section G.

SECTION D – OTHER PROVISIONS

The parties agree to the following additional provisions with respect to this Work Order:

1. See attached Exhibit A, Section E through Section F.

[Remainder of this page intentionally left blank]

CITY OF BEL AIRE, KANSAS

By: _____

Printed Name: _____

Title: _____

Date: _____

**PROFESSIONAL ENGINEERING
CONSULTANTS, P.A.**

By: _____

Printed Name: Benjamin M. Mabry, P.E.

Title: VP Municipal Transportation
Engineering

Date: _____

Approved as to Form Only

Maria A. Schrock, City Attorney

EXHIBIT A

A. Project Description

1. The Project shall consist of Construction Administration and Construction Inspection services for the Bel Aire Lakes Subdivision Mass Grading, Paving and Storm Water Sewer Construction in Bel Aire, Kansas.

B. Anticipated Project Schedule

1. The fully executed copy of the contract will serve as PEC's notice to proceed with the services.
2. PEC shall commence its services on the Project within 7 days after receiving CLIENT's notice to proceed.
3. Construction duration is anticipated to be 90 Working Days or 20 weeks; PEC anticipates the notice to proceed for construction to be issued approximately July 07, 2025 and for the PROJECT to be complete by November 23, 2025. The inspection services fee will be based on 90 working days; 4.5 working days per week.
4. CLIENT acknowledges that directed changes, unforeseen conditions, and other delays may affect the completion of PEC's services. PEC will not have control over or responsibility for any contractor or vendor's performance schedule.
5. CLIENT acknowledges that PEC cannot inspect PROJECT for compliance of specifications and intent of the design for work being installed when resident project representative is not onsite.

C. Scope of Services

1. Construction Administration Services:

During the construction phase PEC shall provide construction administration services for the PROJECT, when requested by the CLIENT. The scope of services will be as follows:

- a) Provide project correspondence and consultation with CLIENT.
- b) Conduct the preconstruction conference.
- c) Issue contract documents and review bonds and insurance submitted by the PROJECT awarded contractor.
- d) Review Contractor's shop drawings and material test certifications for compliance with plans and specifications.
- e) Make a maximum of three (3) visits to the PROJECT site to determine Contractor's progress and general character of the work, upon written request of CLIENT.
- f) Consult with the inspector and Certified Engineering Design, P.A. (CED) regarding interpretations or clarifications of the plans and specifications.
- g) Provide recommendations in accordance with the contract documents on questions regarding the PROJECT.
- h) Prepare Change Orders covering modifications or revisions necessitated by field conditions.
- i) Conduct a final on-site PROJECT review.

- j) Issue Certificate of Substantial Completion when each separate part of the PROJECT has been completed.

2. Construction Inspection:

- a) PEC will provide construction inspection services as noted in this agreement and shall apply to all services provided throughout the construction of the PROJECT unless a separate agreement for additional services is signed.
- b) Provide a resident project representative (RPR) to perform construction inspection, documentation; witness field testing of construction materials as required by the approved plans and specifications; check the construction activities to determine compliance with the project documents (plans, specifications); and maintain project records to document the work.
- c) Provide electronic pdf copy of 'Red-Line' markup images of bid set of plans depicting observed field changes from plans, to include vertical and horizontal storm sewer locations obtained by GPS and field measurements.
- d) PEC will provide weekly SWPPP inspections as required by KDHE.

3. Geographic Information Systems (GIS) Services as follows:

- a) Convert proposed Storm Sewer Utility and Water Utility features from the design plans to CLIENT's ArcGIS Online organization.
- b) Project all features to NAD83 KS State Plane South coordinate system.
- c) Populate applicable attributes as identified on the design plans.
- d) GPS above ground appurtenances.
- e) Measure constructed Storm Sewer flowlines (only those available from opening manhole lids).

D. Additional Responsibilities of CLIENT

The CLIENT agrees to provide the following pursuant to PEC accomplishing the Scope of Services outlined herein.

- 1. Attend all PROJECT progress meetings.
- 2. Provide a point of contact for day to day communications.
- 3. Provide a facility, if necessary, for Pre-Construction, Progress, or Coordination Meetings.
- 4. Furnish to PEC any information currently available relative to existing and proposed improvements in the PROJECT area which may be pertinent to the PROJECT. Such information may include hazardous conditions and/or history of site contamination, underground utilities, etc.
- 5. Provide right of entry for PEC's personnel in performing site visits and inspections.
- 6. Provide electronic copies of construction plans, construction specifications, and/or Geotechnical Reports if requested and not developed/conducted by PEC.
- 7. Provide information related to known and/or potentially hazardous subsurface conditions and/or history of site contamination.

8. Pay PEC for authorized additional work associated with services not included in this agreement.
9. Provide 24-hour notice of anticipated testing services needed.
10. Provide information related to known and/or potential hazardous subsurface conditions and/or history of site contamination.

E. Additional Services

The following services can be provided by PEC at an additional cost by Supplemental Agreement:

1. Construction Staking and Materials Testing Services.
2. Additional services associated with an expansion of the PROJECT or increase in PROJECT size and construction cost.
3. Geotechnical investigations.
4. Attendance at public meetings beyond those specifically identified in the above scope of services.

F. Exclusions

The following shall be specifically excluded from the Scope of Services to be provided by PEC.

1. Additional services not included in the above scope of services.
2. Entrance into a permit-required or non-permit required Confined Space.
3. Final sizing of thrust blocks.
4. Storm Water Sewer video recording and log.
5. Water Quality and Pressure Testing.
6. Environmental site assessments.
7. Permit and review fees.
8. Work on Saturdays, Sundays and City holidays. If the contractor is granted permission to work on these days, staff may be available for inspection services but this work or any work beyond the spot check inspections described above is eligible to be considered additional services reimbursed at 1.5 times the PEC Standard Rates.
9. Code mandated special structural inspections. The CLIENT shall establish and pay for a testing and inspection plan that includes all code mandated special structural inspections to be performed, if required.

G. **PEC's Fees & Reimbursable Expenses**

1. **The basis of the fees for this work is based on the contract requirements provided to the contractor for a total of ninety (90) Working Days for contractor to reach final completion for the PROJECT. Work is anticipated on Monday through Friday for eight (8) regular hours per day and two (2) OT hours per day during construction** for the PROJECT with scope for attending the preconstruction meeting, project preparation (set-up, project documents printing), post construction closeout documentation (includes redline drawing completion), inspection manager oversight, GPS data collection (Storm Water Sewer infrastructure), and project mileage. If more than ninety (90) Working Days elapse from the Construction Notice to Proceed to final completion for the PROJECT a separate supplemental agreement shall be negotiated and executed for the remaining work, and PEC will be reimbursed at the current PEC Standard Hourly Rates.
2. Labor more than 8 hours per day Monday through Friday, shall be reimbursed at 1.5 times the Standard Rate for the Construction Inspector.
3. PEC will invoice CLIENT one time per month for services rendered and Reimbursable Expenses incurred in the previous month. CLIENT agrees to pay each invoice within 30 days after receipt.
4. The fee presented below is an estimate. PEC's Fee for its Scope of Services will be billed **on an hourly basis, plus reimbursable expenses** at the rates established on the current PEC Rate Schedule A.
5. Taxes are not included in PEC's Fees. CLIENT shall reimburse PEC for any sales, use, and value added taxes which apply to these services.
6. **The estimated fee which includes reimbursables for Construction Administration and Construction Inspection Services is \$225,000.00.**

2025 RATE SCHEDULE A**



<u>TITLE</u>	<u>HOURLY RATE *</u>
Principal Engineer	\$250
Senior Project Manager	\$225
Project Manager	\$200
Senior Engineer II.....	\$225
Senior Engineer I.....	\$200
Project Engineer	\$175
Senior Landscape Architect.....	\$180
Landscape Architect	\$130
Senior Planner	\$175
Planner.....	\$155
Design Engineer	\$145
Senior Piping Designer.....	\$160
Piping Designer	\$125
Senior Technician	\$150
Design Technician	\$115
Senior Commissioning Agent.....	\$160
Commissioning Agent	\$135
GIS Specialist	\$150
GIS Analyst	\$120
Project Coordinator.....	\$100
Project Assistant	\$90
Senior Field Project Manager	\$200
Field Project Manager	\$155
Senior Inspector.....	\$160
Inspector	\$125
Senior Field Technician.....	\$105
Field Technician	\$85
Senior Driller	\$130
Driller	\$95
Land Surveyor	\$140
Crew Chief.....	\$120
Survey Technician.....	\$100
*Premium time for all non-salaried personnel or as noted in the contract	1.5 multiplier

REIMBURSABLES:

Infrared Camera.....	\$50/Hour
Structural Testing Equipment	\$50/Hour
Subconsultants	Cost plus 10%
Vehicle Mileage.....	IRS Rate/Mile
Truck Mileage	\$0.75/Mile
ATV	\$20/Hour
GPS.....	\$50/Hour
3D Laser Scanner.....	\$150/Hour
Robotic Total Station.....	\$50/Hour
UAS	\$150/Hour
Mobile Lidar Unit.....	\$4,000/Day
Drill Rig Use.....	\$75/Hour
Concrete Testing Equipment	\$10/Each
Nuclear Gauge Equipment.....	\$20/Each
Compressive Strength of Cylinders	\$15/Each
Ultra Sonic Testing Equipment	\$50/Each
Semi-Trailer Mileage.....	\$3/Mile
Other Reimbursables	Cost plus 10%

**The rates shown above are effective for services through December 31, 2025 and are subject to revision thereafter.

2025 FIELD SERVICES MASTER RATES

January 1, 2025

EXHIBIT B

<u>TITLE</u>	<u>HOURLY RATE*</u>
Principal Engineer	\$ 250.00 hour
Senior Engineer	\$ 200.00 hour
Senior Field Project Manager	\$ 200.00 hour
Field Project Manager	\$ 155.00 hour
Senior Technician	\$ 150.00 hour
Project Engineer	\$ 175.00 hour
Senior Inspector	\$ 160.00 hour
Laboratory Supervisor/Manager	\$ 155.00 hour
Land Surveyor	\$ 140.00 hour
Crew Chief	\$ 120.00 hour
Senior Driller	\$ 130.00 hour
Inspector	\$ 125.00 hour
Metals Technician	\$ 110.00 hour
Survey Technician	\$ 100.00 hour
Project Coordinator	\$ 100.00 hour
Driller	\$ 95.00 hour
Project Assistant	\$ 90.00 hour
Senior Field Technician	\$ 72.00 hour
Field Technician	\$ 59.00 hour

*Premium time for all non-salaried personnel is a 1.5 multiplier when on overtime or as noted in the contract

REIMBURSABLES**RATE**

#635 Sieve Test	\$	315.00	each
1 Point Curve Checks (ASTM D-698/1557)	\$	40.00	each
Air Meter Calibration	\$	120.00	each
Alkali-Silica Reactivity (ASTM C-1260	\$	790.00	each
API 1104 Multiple Position	\$	925.00	each
API 1104 Single Position	\$	575.00	each
ASME IX Performance Qualification (Larger than Schedule 40 Pipe)		Price on Request	
ASME IX Performance Qualification, 1/2" or less, plate	\$	400.00	each
ASME IX Performance Qualification, >1/2" Plate or Stainless Steel		Price on Request	
ASME IX Performance Qualification, pipe	\$	465.00	each
ASME IX Procedure Qualification (Larger than Schedule 40 Pipe)		Price on Request	
ASME IX Procedure Qualification, 1/2" or less, plate	\$	720.00	each
ASME IX Procedure Qualification, >1/2" Plate or Stainless Steel		Price on Request	
ASME IX Procedure Qualification, pipe	\$	785.00	each
Asphalt Mix Designs (FAA/KDOT/etc.)	\$	925.00	each
AWS D1.3 Performance Qualification	\$	145.00	each
Atterberg Limits (ASTM D-4318)	\$	95.00	each
AWS D1.1 Performance Qualification, <3/8" Contractor Prepped	\$	295.00	each
AWS D1.1 Performance Qualification, 13/16" - 1 1/2" plate	\$	510.00	each
AWS D1.1 Performance Qualification, 3/8" or less, pipe	\$	335.00	each
AWS D1.1 Performance Qualification, 3/8" or less, plate	\$	335.00	each
AWS D1.1 Procedure Qualification, 7/16" - 3/4", pipe	\$	510.00	each
AWS D1.1 Procedure Qualification, 7/16" - 3/4", plate	\$	510.00	each
AWS D1.1 Procedure Qualification, 13/16" - 1 1/2", plate	\$	720.00	each
AWS D1.1 Procedure Qualification, 13/16" - 1 1/2", Stainless Steel plate	\$	755.00	each
AWS D1.1 Procedure Qualification, 3/8" or less, pipe	\$	655.00	each
AWS D1.1 Procedure Qualification, 3/8" or less, plate	\$	590.00	each
AWS D1.1 Procedure Qualification, 7/16" - 3/4", pipe	\$	720.00	each
AWS D1.1 Procedure Qualification, 7/16" - 3/4", plate	\$	660.00	each
AWS D1.1 Procedure Qualification, 7/16" - 3/4", Stainless Steel pipe	\$	755.00	each
AWS D1.1 Procedure Qualification, over 1 1/2"		Price on Request	
AWS D1.1, Face/Root Bend	\$	75.00	each
AWS D1.1, Procedure Qualification, Steel Tensile Test	\$	95.00	each
AWS D1.4 Procedure Qualification, Reinforcing Steel Tensile Test	\$	170.00	each
AWS D1.6 Performance Qualification, 13/16" - 1 1/2" Stainless Steel plate	\$	510.00	each
AWS D1.6 Performance Qualification, 3/8" or less, Stainless Steel plate	\$	510.00	each
AWS D1.6 Performance Qualification, 7/16" - 3/4", Stainless Steel pipe	\$	510.00	each
AWS D1.6 Performance Qualification, 7/16" - 3/4", Stainless Steel plate	\$	510.00	each
AWS D1.6 Performance Qualification, 3/8" or less, Stainless Steel pipe	\$	510.00	each
AWS D1.6 Procedure Qualification, 3/8" or less Stainless Steel pipe	\$	690.00	each
AWS D1.6 Procedure Qualification, 3/8" or less, Stainless Steel plate	\$	620.00	each
AWS D1.6 Procedure Qualification, 7/16" - 3/4", Stainless Steel plate	\$	690.00	each

REIMBURSABLES**RATE**

AWS D14.1 Procedure Qualifications	\$	660.00	each
AWS D14.1 Weld Performance Qualification	\$	235.00	each
AWS Performance Qualifications (Other Codes)		Price on Request	
Bulk Specific Gravity/Absorption of Dimension Stone, set of 5 (ASTM C-97)	\$	160.00	set
Calcium Chloride Emission Kit	\$	105.00	each
California Bearing Ratio (ASTM D-1883)	\$	465.00	each
Cement Soil Unconfined Compression Test	\$	95.00	each
Cement Stabilized Soil Mix Design	\$	2,660.00	each
Cement Treated Base Mix Design	\$	2,660.00	each
Compression/Absorption Test of Cast Stone, set of 6	\$	280.00	set
Compression Tests of Cylinders (ASTM C-39**)	\$	15.00	each
Compression Tests of 2"x2"x2" cubes (ASTM C-109**)	\$	15.00	each
Compression Test of Dimension Stone, set of 5 (ASTM C-170)	\$	175.00	set
Concrete Block/Prism Compression Test (ASTM C-140)	\$	105.00	each
Concrete/Mortar/Grout Mix Design, Large Test Batch	\$	810.00	each
Concrete/Mortar/Grout Mix Design, Test Batch	\$	580.00	each
Concrete/Mortar/Grout Mix Design, Trial Batch	\$	235.00	each
Constant Head Permeability (ASTM D-2434)	\$	625.00	each
Core Compression Test	\$	55.00	each
Core Density/Thickness Measurement	\$	45.00	each
CTB Core, Compression Test	\$	95.00	each
CTB Density	\$	65.00	each
Cylinder Mold	\$	2.50	each
Deleterious Materials (clay lumps & friable particles, ASTM C-142)	\$	120.00	each
Desktop Review	\$	580.00	each
Dry Rodded Unit Weight	\$	85.00	each
Dry Unit Weight (ASTM D-2166)	\$	50.00	each
Extraction Only (ASTM D-2172)	\$	200.00	each
Extraction/Gradation (ASTM D-2172, C-136, C-117)	\$	265.00	each
Falling Head Permeability (ASTM D-5084)	\$	625.00	each
Flat & Elongated Particles (ASTM D-4791)	\$	140.00	each
Flexural Test of 6"x6"x22" beams (ASTM C-78**)	\$	55.00	each
Flexural Test of Dimension Stone, set of 5 (ASTM C-880)	\$	465.00	each
Freeze-Thaw, KDOT (ASTM Procedure)	\$	405.00	each
Specific Gravity and Absorption (ASTM C-127/C-128)	\$	120.00	each
Grout Compression Tests of 3"x6" Specimens (ASTM C-39**)	\$	30.00	each
Grout Shrinkage (ASTM C-157)	\$	820.00	each
Hardened Concrete Properties (ASTM C-642)	\$	235.00	each
Ignition Oven Test	\$	240.00	each
Jack Calibration	\$	370.00	each
KDOT "Boil Test", set of 3	\$	315.00	set
Lime Determination (ASTM D-4253/4254)	\$	725.00	each
Los Angeles Abrasion (ASTM C-131/C-535)	\$	200.00	each
Lightweight Pieces/Chert Analysis	\$	120.00	each

REIMBURSABLES**RATE**

Lightweight Deflectometer Equipment	\$	175.00 day
Marshall Properties (ASTM D-1559)	\$	90.00 each
Material Finer than 200 Sieve (ASTM D-1140)	\$	55.00 each
Modulus Rupture of Dimension Stone, set of 5 (ASTM C-99)	\$	465.00 set
Moisture Content (ASTM C-566)	\$	40.00 each
Proctor (ASTM D-698/D-1557)	\$	160.00 each
Organic Content (AASHTO T267)	\$	35.00 each
Organic Impurities (ASTM C-40)	\$	85.00 each
Percent Sticks (KT-35)	\$	120.00 each
Percentage of Fractured Faces ASTM D-5821	\$	120.00 each
Residential Atterberg Limits	\$	150.00 each
Resipod Surface Resistivity, set of 3 (KT-79)	\$	290.00 set
Sand Equivalent (ASTM C-2419)	\$	150.00 each
Sieve Analysis, ≤ 1 " max (ASTM C-136, C-117)	\$	90.00 each
Particle Size Analysis of Soils (Hydrometer, ASTM D-422)	\$	210.00 each
Sodium/Magnesium Sulfate Soundness (ASTM C-88, 5 cycles)	\$	265.00 each
Soil Resistivity, Box Method	\$	235.00 each
Specific Gravity (ASTM D-854)	\$	160.00 each
Triaxial Shear Test	\$	465.00 each
Unconfined Compression Test (ASTM D-2166)	\$	95.00 each
Uncompacted Air Voids	\$	90.00 each
Uncompacted Voids (ASTM C-1252/KT)	\$	175.00 each
Vacuum Specific Gravity	\$	65.00 each
Direct Shear (ASTM D-3080)	\$	520.00 each
Relative Density (ASTM D-4253/4254)	\$	520.00 each
Swell-Consolidation (ASTM D-2435)	\$	520.00 each
3D Laser Scanner	\$	150.00 hour
Mobile Lidar Unit	\$	4,000.00 day
All Terrain Vehicle	\$	20.00 hour
Car Rental and Fuel		Cost plus 10%
Concrete Testing Equipment	\$	10.00 each
Coring Equipment	\$	21.00 hour
Drill Rig Use	\$	75.00 hour
Equipment Rental		Cost plus 10%
Floor Flatness Equipment	\$	50.00 each
Global Positioning System	\$	50.00 each
Infrared Camera	\$	50.00 each
Insta 360 Camera	\$	100.00 each
Nuclear Gauge	\$	20.00 each
Robotic Total Station	\$	50.00 hour
Schmidt Hammer, James R-Meter	\$	15.00 hour
Unmanned Aircraft System (UAS)	\$	150.00 hour
Ultrasonic Testing Equipment	\$	150.00 each
Deliveries and Overnight Mail		Cost plus 10%

REIMBURSABLES**RATE**

Filing Fees		Cost plus 10%
Material		Cost plus 10%
Outside Consultants		Cost plus 10%
Per Diem, Lodging		Cost plus 10%
Per Diem, Meals		Cost plus 10%
Pickup Trucks with Trailers	\$	0.85 mile
Reproduction & Photography		Cost plus 10%
Semi-Trailer Mileage	\$	3.50 mile
Travel, Hotel, Meals, and Subsistence		Cost plus 10%
Truck Mileage	\$	0.75 mile
Vehicle Mileage		IRS Mileage Rate mile
Trip		Per Contract each

****Compression Tests will be billed when specimens are fabricated and/or delivered to the Laboratory.**

Note: This fee schedule is not all inclusive. Other labor, equipment, materials & tests are available upon request.

Hourly charges may be subject to a 3 hour minimum and will be billed in 0.5 hour increments.

Rates shown above are effective for services through 31 December 2025 and subject to revision after.