AMENDMENT TO AGREEMENT FOR SERVICES

Oklahoma County

Adult Detention Center Campus

Geotechnical Exploration

This amendment ("Amendment") is made this _____ day of _____, 2024 by and between Olsson, Inc. 9500 Pole Road, Oklahoma City, OK 73160 and the Board of County Commissioners of Oklahoma County, with offices at 320 Robert S. Kerr, Suite 201, Oklahoma City, OK 73102.

WHEREAS, Olsson, Inc. and Oklahoma County are parties to an agreement approved by the Board of County Commissioners on October 27, 2023 ("Agreement"); and

WHEREAS, Olsson, Inc. submits this amendment to perform supplemental geotechnical exploration at the "Trosper Park Site". More specifically described in Attachment "A".

The County agrees to pay an additional Sixteen Thousand Six Hundred Twenty Dollars ($16,620) for the additional work.

All other terms and conditions of the Agreement not inconsistent with the above amendment shall remain in full force and effect.

IN WITNESS WHEREOF, the parties have executed this Amendment as of the dates set forth below:

Entered into this _____ day of _____ 2024.

BOARD OF COUNTY COMMISSIONERS
OKLAHOMA COUNTY

_____
Chairman

_____
Vice-Chairman

ATTEST:

_____

_____
Member

Approved:

_____
Stacey Trumbo, P.E., County Engineer

ATTACHMENT "A"

LETTER AGREEMENT
TROSPER PARK SITE - PHASE 2

July 12, 2024

This AMENDMENT ("Amendment") shall amend and become a part of the Letter Agreement for Professional Services dated October 30, 2023 between Oklahoma County Engineering Department ("Client") and Olsson, Inc. ("Olsson") providing for professional services for the following Project (the "Agreement"):

PROJECT DESCRIPTION AND LOCATION

Project is located at: Northwest of the Intersection of SE 22nd St. & E Grand Blvd. in Oklahoma City, Oklahoma

Project Description: Oklahoma County Adult Detention Center – Trosper Park Site – Supplemental Geotechnical Exploration

Project Background:
We understand the purpose of this supplemental geotechnical exploration is for the development of the new Oklahoma County Detention Center to be located at the Trosper Park Site. It should be noted that Olsson performed a subsurface exploration and prepared a preliminary geotechnical engineering report for the potential development at this project site on January 5, 2024.

This project comprises of the construction of an adult detention center on a 70.77-acre property with a total building footprint area of 726,113 square feet (SF) and 853,809 SF of concrete paving. These structures are anticipated to be 1 to 2 stories in height and comprise of structural steel framing or precast concrete, with some buildings having concrete slab-on-grade flooring and some constructed with a crawlspace and structural floor slab. No basements are planned at this development.

A detention pond is planned in the central, western portion of the site. New paved parking areas, drives and entrances are planned in association with this project. Also, we understand that future structures are planned generally in the western and northern portions of the project site. We also understand that new equipment including a water tank is planned in the northwestern portion of the project site. Finally, a new monument sign is planned near the planned central, eastern entrance.

We were provided maximum column and continuous wall loads of 322 kips and 10 kips per lineal foot for the planned buildings, respectively, by the structural engineer. We anticipate that the equipment and water tank are preliminarily planned to be supported on mat foundation systems with maximum contact pressure of 2,000 pounds per square foot (psf) or less. We further assume that design site cut is anticipated to be about 5 feet in areas of development away from the planned pond. Little to no fill is anticipated to be required at this design site.

Upon reviewing the preliminary geotechnical exploration, existing fill material comprising low plasticity clays and clayey sands, as well as native low plasticity clay and clayey sand soils with varying sand content overlying shale bedrock was encountered at the Trosper Park project site.

The scope of services discussed in this proposal is the minimum scope that meets our standard of care for this type of development based on the information obtained during our preliminary subsurface exploration. However, we have increased boring spacing to help reduce overall exploration costs. As we have previously discussed with the client, the relatively large spacing between our proposed borings may present an increased risk of encountering unknown conditions at the time of construction. We would be pleased to discuss additional geotechnical borings to help reduce this risk.

SCOPE OF SERVICES

Client and Olsson hereby agree that Olsson's Scope of Services under the Agreement is amended by adding the services specifically described below for the additional compensation set forth below:

Based on our current understanding of development plans and the findings of the preliminary geotechnical exploration, we propose the following supplemental scope of work for the design-level geotechnical exploration.

Phase 100 – Design Phase Geotechnical Exploration

Task 101 – Drilling Services

1. **Field Exploration**
   a. We propose to use a truck-mounted drill rig to complete the following soil test borings for the geotechnical exploration:

      - One (1) soil test boring to a depth of 25 feet;
      - Nine (9) soil test borings to a depth of 20 feet each;
      - Two (2) bulk samples.

      The soil borings will be advanced to the depths proposed, or to refusal, whichever is shallower. This proposal is based on a total drilling footage of 205 linear feet. The boring locations are shown in Figure 1 on the following page.

   b. Soils will be sampled with a split-barrel sampler or thin-walled tubes.

   c. We will obtain groundwater levels in the test borings at the time of drilling and upon completion of the drilling operations.

   d. After obtaining groundwater level readings, we will backfill the borings with soil cuttings.

2. **Field Exploration General Notes and Assumptions**
   a. Olsson will contact Oklahoma 811 to issue utility locate tickets in areas where drilling services are to be performed. The Oklahoma 811 utility locate center only notifies participating operators, which typically include water

and sewer transmission, fiber optic or telecom transmission, natural gas pipelines, and electrical distribution (up to electric meter). To ensure the safety of the crew on site, Client must inform Olsson of the location of known private utilities and private utility service connections. The cost of locating private utility lines and private service connections through private locating services and/or hydroexcavation is the Owner's responsibility. Olsson is not responsible or liable for damage to any private utilities or private service connections. If requested, Olsson can coordinate private locating or hydroexcavation services for an additional fee.

b. Each boring location must be readily accessible by conventional truck-mounted drilling rig.

c. Drilling equipment may cause disturbance to natural surroundings including but not limited to soil indentations, concrete and asphalt pavement damage, and damage to underground sprinkler-systems. Olsson will not be liable or responsible for any site disturbance that may occur as a result of bringing equipment on site. The Owner accepts full responsibility for site disturbance.

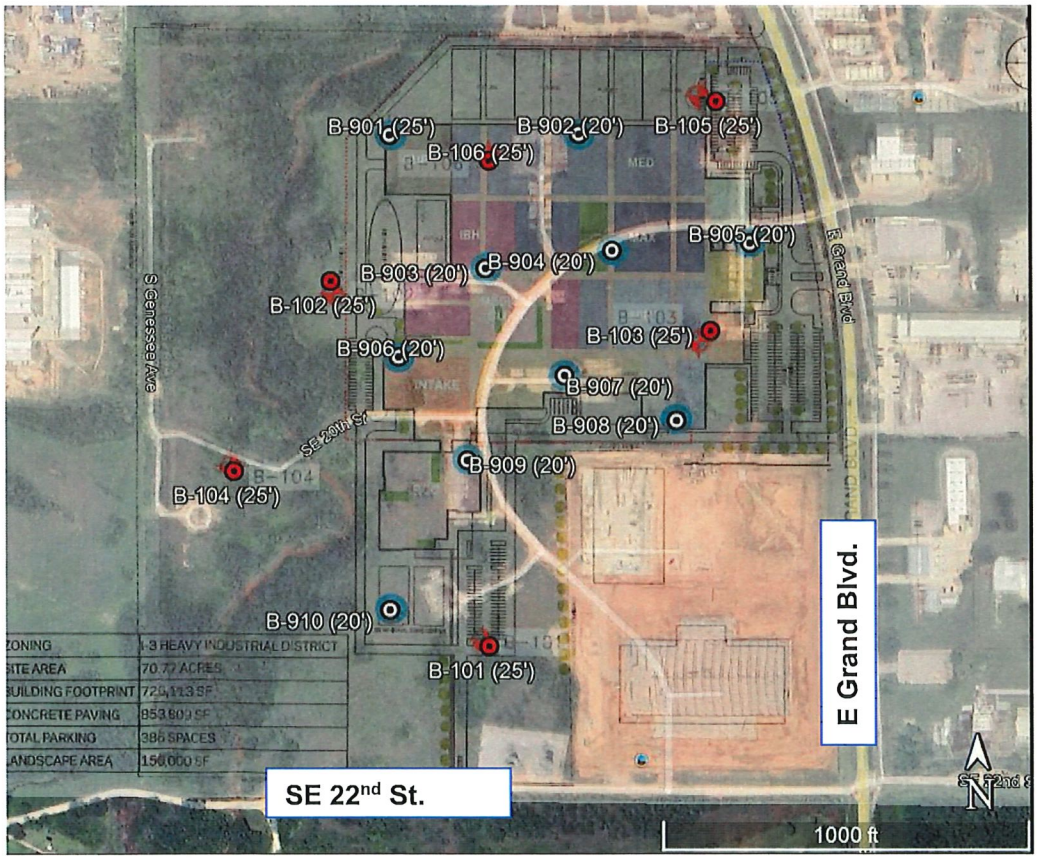

Figure 1: Proposed Boring Locations Shown in White and Blue (preliminary borings shown in red)

Task 102 – Geotechnical Services

1. **Laboratory Services**
   As soil conditions dictate, laboratory testing may include visual soil classification, unconfined compression tests, thin-walled tube density tests, moisture content tests, Atterberg limit tests, percent finer than the No. 200 sieve tests, one-dimensional consolidation tests, one-dimensional swell/collapse tests, standard Proctor tests, and California Bearing Ratio (CBR) tests.

2. **Engineering Analysis and Report Preparation**
   Olsson will perform engineering analyses and provide conclusions and recommendations regarding the following:

   a. Maximum allowable soil bearing pressures and estimates of maximum total and differential settlement for design of shallow foundations. Shallow foundation recommendations will include minimum footing sizes and the required frost depth or other minimum bearing depth. Remedial measures, such as over-excavation, surcharge, or ground improvement, will also be addressed, if needed.

   b. Deep foundation design parameters, including skin friction, uplift, end bearing, estimated settlement and lateral pile response will be provided if deep foundations are being considered.

   c. Lift thickness, moisture control, and compaction criteria for backfill and structural fill. OSHA standards for soil excavation criteria will be included or referenced.

   d. Seismic soil site classification per ASCE 7 and IBC.

   e. Anticipated groundwater concerns, along with recommendations for addressing these concerns during construction, if required.

   f. Shrink/swell characteristics of the on-site soils and the potential for reuse of on-site soils as structural fill.

   g. Preparation of subgrade soils supporting concrete floor slabs, including an estimate of the modulus of subgrade reaction based on laboratory test results.

   h. Foundation and slab-on-grade drainage requirements.

   i. Lateral earth pressure values for restrained and/or unrestrained foundation/retaining walls, including passive pressures and sliding friction values to resist sliding.

   j. Pavement sections for light to heavy duty traffic.

   We will present our conclusions and recommendations in a written report that will include a map of boring locations, soil boring logs, and a summary of laboratory tests.

The information obtained during our preliminary site evaluation will be included in the report.

COMPENSATION

For the additional Scope of Services specifically set forth in this Amendment, Client shall pay Olsson the following fee in addition to the fee(s) set forth in the Agreement:

The fees for the geotechnical exploration, laboratory testing, engineer evaluation, final report, and services listed above will be invoiced on a lump sum basis as follows:

Task	Task Description	Fee
101	Drilling Services	**$5,380**
102	Laboratory Services, Engineering Evaluation, and Preliminary Report Preparation	**$11,240**
	Phase 100 - Geotechnical Evaluation Lump Sum Total	**$16,620**

EXCLUSIONS

- Fees for private utility locating and/or hydro-excavation are excluded from this scope of services.
- Fees resulting from the use of mud-matting, clearing, or other operations to achieve access to boring locations is Client's responsibility and is excluded from this scope of services.
- Fees for site restoration efforts of any site disturbance resulting from bringing drilling equipment onsite is Client's responsibility and is excluded from this scope of services.
- Traffic control; village, city, district, county, and state right-of-way occupation permitting; street use permitting; and utility permitting necessary to allow for drilling services are excluded from this scope of services.
- Design and recommendations for gravity block or mechanically stabilized earth (MSE) retaining walls, slope stability analyses, or existing dam analyses are **excluded** from this scope of service. Please contact the geotechnical engineer if such services are required.
- Geophysical services used to identify mine and karst issues are **excluded** from this scope of services. Please contact the geotechnical engineer if such services are required.

CLOSURE

Olsson is committed to providing quality service to its clients, commensurate with their wants, needs and desired level of risk. If a portion of this proposal does not meet your needs, or if those needs have changed, Olsson stands ready to consider appropriate modifications, subject to the standards of care to which we adhere as professionals. If you have any questions or concerns,

please contact Andrew Beekman at abeekman@olsson.com or Joseph Kwak at jkwak@olsson.com. We look forward to hearing from you and working with you on this project.

TERMS AND CONDITIONS OF SERVICE
All provisions of the original Agreement not specifically amended herein shall remain unchanged.

If this Contract Amendment satisfactorily sets forth your understanding of our agreement, please sign in the space provided below. Retain a copy for your files and return an executed original to Olsson. This proposal will be open for acceptance for a period of 30 days from the date set forth above, unless changed by us in writing.,

OLSSON, INC.

By _____ By _____
Andrew Beekman, PE Thomas C. Kettler Jr., PE

By signing below, you acknowledge that you have full authority to bind Client to the terms of this Amendment. If you accept this Amendment, please sign:

Oklahoma County Engineering Department

By _____
Signature

Printed Name _____

Title _____ Dated: _____