



March 25, 2024

Matthew Gurney, Public Works Director
City of Bisbee
76 Erie Street
Bisbee, AZ 85603

Re: Amendment Number 01 to Professional Services Agreement

Dear Mr. Gurney:

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant") and CITY OF BISBEE ("Client") entered in a Professional Services Agreement dated October 4, 2022 ("Agreement") concerning Professional Services Agreement, On Call Engineering Services ("Project").

The parties now desire to amend the Agreement to include services to be performed by Consultant for compensation as set forth below in accordance with the terms of the Agreement, which are incorporated by reference.

Consultant will provide the services specifically set forth below.

Prepare a Geotechnical Report for the Camp Naco Proposed Rehabilitation Project, prepared by Ninyo & Moore Geotechnical & Environmental Sciences Consultants.

We will provide our services as expeditiously as practicable.

For the services set forth above, Client shall pay Consultant the following compensation:

A lump sum of \$19,900.00 (Nineteen Thousand Nine Hundred Dollars and 00/100's) for Geotechnical services (see Exhibit A, proposal from Ninyo & Moore, dated March 14, 2024).



We appreciate the opportunity to provide these services to you. Please contact me if you have any questions.

Very truly yours,

KIMLEY-HORN AND ASSOCIATES, INC.

Erin Harris

Erin Harris, P.E.
Project Manager

AGREED AND ACCEPTED:

CITY OF BISBEE, ARIZONA

By: *Ken Budge*
Ken Budge

Title: Mayor

Date: 4-16-2024



March 14, 2024
Proposal No. 12TUC02-02203

Ms. Erin Harris, P.E.
Kimley-Horn & Associates, Inc.
3300 East Sunrise Drive, Suite 130
Tucson, Arizona 85718

Subject: Proposal to Provide Geotechnical Services
Camp Naco Proposed Rehabilitation
Bisbee, Arizona

Dear Ms. Harris:

Ninyo & Moore is pleased to submit this proposal to provide geotechnical services for subject project. This proposal is based on the information that we received from your office and our subsequent communication. It outlines our scope of services, assumptions, anticipated schedule and estimated fee for this phase of work.

PROJECT DESCRIPTION

Kimley-Horn & Associates, Inc. (KHA) has been requested to plan and design a rehabilitation plan for the Camp Naco facility in Bisbee, Arizona. This project is part of the remediation effort of the existing historic site. Although in the planning phase for what features will be rehabilitated, KHA is requesting recommendations for building foundations percolation evaluation of existing soils and associated utility upgrades including pavements. Ninyo & Moore anticipates building and associated features will be supported on shallow foundations (spread footings) and/or slab-on-grade.

Engineering plans for the proposed improvements were not available for our review. However, we have assumed that the project construction will not involve any major grading operations and the final site grades will be within two feet of the currently existing grades.

SCOPE OF SERVICES

The scope of the geotechnical services for this phase of the project is outlined below:

- Conduct a field trip to the project area to mark out field test locations.
- Contact Arizona 811 to evaluate utility locations prior to the field work. Services of a private utility locator will be provided by others.
- Perform a geotechnical exploration, which will include to eight exploratory borings with depths of 5 to 15 feet below ground surface (bgs) and drilled using a truck mounted drill rig equipped with hollow stem

augers. The borings will be drilled to the target depths or refusal on very dense/cemented deposits. A Ninyo & Moore employee will prepare the boring logs.

- Conduct three single-ring percolation test according to the Chandler Method at depths of 5 feet bgs.
- Collect bulk soils samples in the borings for laboratory testing and analysis. Ninyo & Moore personnel will log the borings in general accordance with the Unified Soil Classification System (USCS) and ASTM International (ASTM) D 2488 by observing cuttings and samples. Soil samples will be placed in large plastic bags and will be transported to a Ninyo & Moore laboratory for testing.
- Conduct laboratory testing on subgrade soil samples that will generally include in-situ moisture and dry density, gradation, Atterberg limits, consolidation, and corrosivity (including sulfate and chloride contents, pH, and laboratory electrical resistivity).
- Prepare a geotechnical evaluation report to include classifications of the exploratory samples, the boring logs and results of the laboratory testing. The report will include a cover letter sealed by a Professional Engineer licensed in the State of Arizona, as well as the following information:
 - Description of work scope, laboratory, and field procedures;
 - Description of regional and site geology and geologic hazards;
 - Subsurface soil and groundwater conditions;
 - Maps and boring plans;
 - Description of the excavation characteristics of on-site soils;
 - Discussion of potential earthwork issues;
 - Discussion of potentially problem soils, such as collapsible and expansive soils;
 - Evaluation of potential for re-use of on-site soils;
 - Subgrade preparation measures for shallow foundations, slab-on-grade and pavements;
 - Geotechnical recommendations for shallow foundations;
 - Recommended new asphaltic concrete pavement sections;
 - Stabilized percolation rates;
 - Recommendations for site drainage; and
 - Soil corrosivity discussion and corrosion test results.

ASSUMPTIONS

We have made the following assumptions in the preparation of this proposal:

- The site is accessible for a truck mounted drilling equipment and the site access will be provided.
- Services of a private utility locator are not included.

- Any environmental/cultural clearances or right of way permits will not be needed to perform the field work.
- The work will be performed during normal work week and day time hours.
- Ground water will not be encountered and the bore holes will be backfilled with drilling spoils.
- The borings will be terminated at the target depth or refusal on very dense/cemented deposits.

This cost estimate is valid for six months from proposal date. Should the Notice to Proceed (NTP) be given outside of that timeframe Ninyo & Moore requests the opportunity to confirm pricing change with any subcontractors.

SCHEDULING

We are prepared to initiate this project immediately upon receiving your authorization to proceed. We anticipate that the fieldwork will take two days and will be completed within four weeks after notice to proceed. We anticipate the geotechnical report will be submitted within four weeks following completion of the fieldwork.

ESTIMATED FEE

We propose to perform the geotechnical services described above for lump sum fee of \$19,900 (Nineteen Thousand Nine Hundred Dollars). This estimated fee is based on the scope of services presented above and our understanding of the project. Any additional services not included in the aforementioned scope will be charged on a time and materials basis in accordance with our current schedule of fees. To authorize our services, please sign and return the attached Work Authorization and Agreement.

Ninyo & Moore appreciates the opportunity to submit this proposal and looks forward to working with you on this project.

Respectfully submitted,
NINYO & MOORE



Marek J. Kasztalski, PE
Principal Engineer



Fred Narcaroti
Principal/Tucson Office Manager

MJK/FFN/als

Attachment: Work Authorization and Agreement



Geotechnical & Environmental Sciences Consultants

WORK AUTHORIZATION AND AGREEMENT

Please Sign and Return One Copy to:

NINYO & MOORE
1991 East Ajo Way, Suite 145
Tucson, Arizona 85713

PROPOSAL NO. 12TUC02-02203

1. PROJECT ADDRESS: **Camp Naco Proposed Rehabilitation, Bisbee, Arizona**
2. PROJECT DESCRIPTION: **Geotechnical Services**
3. SCOPE OF STUDY: **Please refer to proposal dated March 14, 2024.**
4. FEE: **\$19,900 (Nineteen Thousand Nine Hundred Dollars – Lump Sum)**
5. PORTION OF FEE IN ADVANCE OF WORK: **None**
6. CLIENT: **Kimley-Horn & Associates, Inc.** PHONE: **520-615-9191**
3300 East Sunrise Drive, Suite 130
Tucson, Arizona 85718
- CONTACT: **Erin Harris, PE** PHONE: **520-615-9191**
7. STATEMENT TO BE SENT TO: **Client**

