Technical Services for Terrestrial Horizontal Directional Drilling Route Geotechnical Survey

RFP #199778

ADDENDUM NO. 1

ISSUE DATE: July 11, 2019

CONTRACT ADMINISTRATOR:
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This Addendum is hereby issued to inform you of the following revisions and or clarifications to the above-referenced RFP and/or the Contract Documents for the Project, to the extent they have been modified herein. Any conflict or inconsistency between this Addendum and the Solicitation Document or any previous addenda will be resolved in favor of this Addendum. Proposals shall conform to this Addendum. Unless specifically changed by this Addendum, all other requirements, terms and conditions of the Solicitation Document and or Contract Documents, and any previous addenda, remain unchanged and can be modified only in writing by OSU. The following changes are hereby made:

MODIFICATIONS
Section B.2 'Lump Sum Prices' table is removed and replaced with the following:

Activity		**Fixed Price**
1.	Mobilization and Demobilization	$
2.	Complete Core #1*	$
2.a	Core #1 – Disposal Costs	$
3.	Complete Core #*	$
3.a	Core #2 – Disposal Costs	$
4	Complete Core #3* at specified location, including traffic control	$

4.a	Core #3 – Disposal Costs	$
5.	Complete Core #4*	$
5.a	Core #4 – Disposal Costs	$
6	Complete Laboratory Testing of 4 cores – price per core (For the purposes of proposal submission, proposers are to assume 12 total tests, 3 for each of the 4 corings.) Actual number of tests to be performed under contract will vary depending on geologic layers encountered.	$
7	Geotechnical Site Investigation Report	$
	TOTAL NOT TO EXCEED	**$**
Additional Cost Items		**Unit Price**
8	Per foot rate for any additional coring footage requested (per foot)	$
9	Per laboratory test pricing for additional laboratory testing (per test)	$
*'Complete Core' costs shall be inclusive of all costs necessary to perform the coring operation through completion (disposal costs, traffic control, etc.) Complete Core costs shall not include mobilization and demobilization expenses.		

TECHNICAL SPECIFICATIONS:
Item 2 –
Section A.5 'CORE DRILLING REQUIREMENTS' is revised to include the following statement after the last sentence in this section:

Contractor shall contain and dispose of all spoils off-site, including but not limited to drill cuttings, drill mud, and drill waters prior to completion of work.

QUESTIONS:
Item 3 –

Question: What is the intent of the angled boring? Would the boring be dipping to the west? Please confirm 70 degrees from vertical (20 degrees above horizontal) is correct. Page 23 of the RFP describes this as "The ideal inclination angle of the bore is up to 70 degrees from vertical" and page 26 describes this boring as "Core #1 shall be preferably drilled off vertical, towards the west to a maximum angle of 70 degrees…." A boring 70 degrees from vertical towards the west would orient the boring eastward. Please clarify.

Answer: The ideal test bore would start at the location identified in Driftwood parking lot and angle at 20 degrees from horizontal towards the west, out under Driftwood Beach. The end of the bore (deep end) would therefore be west of the starting point. If the responding vendor is unable to achieve such a steep bore angle, please advise maximum achievable angle.

Question: Page 23 states "Core recovery of the entire bore, from the bottom of overburden is required for all cores" and on page 27 the overburden sampling is described as "sampled at five-foot depth intervals" which is pretty typical of most geotechnical investigations. Continuous soil recovery is possible, however given that the subsurface conditions are expected to be sandy, this may not be feasible/practical.

Answer: Sand and soil is the expectation for overburden. The primary goal of the drilling project is confirmation of the properties of the local bedrock, to a depth of 200 feet below sea level. Therefore, spoon sampling of soil and sand overburden at 5 foot intervals is acceptable. The key areas of investigation are below the overburden.

Question: As the RFP is currently written, there is a heavy emphasis on rock coring and testing which is costly, time consuming, and unnecessary if the HDD is not being advanced through bedrock. The RFP currently states that drilling needs to be advanced "to a total depth of 300 feet" (pgs. 23 and 26), however the geophysical surveys indicate bedrock is on the order of 50 to 70 feet below the existing ground surface. Is it necessary to advance borings to a "total depth of 300 feet" or can we limit the borings to penetrate 10 feet into bedrock?

Answer: The drilling plan is to drill through bedrock, not overburden. Therefore, the goal of the core drilling program is to sample the actual bedrock, with overburden being secondary. Seismic surveys to date indicate that bedrock may require drilling deeper than 250 feet below ground level, hence our requirement for investigations to 300 feet to confirm.

Question: How many points and how many tests do you need for the thermal conductivity testing?
Answer: We require tests from 3 samples of each representative geological layers found. As this is an investigation project, we cannot identify how many different materials may be encountered. We suggest that vendors propose a total of 12 tests and provide additional pricing per additional test in order to account for the potential for additional geological layers found during the investigations.

Question: How many lab tests are required per boring and is lab testing of rock required even if the HDD will not be advanced through bedrock?
Answer: HDD will be through bedrock and therefore the bedrock is the primary area of investigation. Per item #4, 3 total tests of each item specified should be performed for each generalized type of geology encountered.

Question: Can soil cuttings be spread on site?
Answer: No spreading of cuttings are allowed on the site. Cuttings must be disposed of off-site and that is the responsibility of the contractor. Please include a budget line item for disposal costs.

Question: Can drilling mud/water be spread on site?
Answer: No spreading of drilling mud or water are allowed on the site. Drilling mud or water must be disposed of off-site and that is the responsibility of the contractor. Please include a budget line item for disposal costs.

Question: Can "Core Drill #3" be moved to NW Terrace Street to avoid permitting/traffic control to drill in the ROW of HWY 101?
Answer: It could, but this would be moving well away from our seismic survey and even further away from the planned bore path, resulting in very limited project value. Ultimately, if traffic control and permitting is cost prohibitive, we would likely opt to eliminate Core #3 altogether vs. drilling on NW Terrace. Please quote based on the location as specified in the RFP. In order to understand the cost implications of the location specified, please price this effort as a separate line item on Section B.2 'Lump Sum Prices' table, item #4.

END OF ADDENDUM NO. 1