



University of Kentucky[®]

Procurement Services

REQUEST FOR PROPOSALS
UK-2563.0-2-24
CTC - Thermal Utility Tunnel Design Build
ADDENDUM #3
06/18/2024

ATTENTION: This is not an order. Read all instructions, terms, and conditions carefully.

IMPORTANT: RFP AND ADDENDUM MUST BE RECEIVED BY: 07/10/2024 @ 3:00 P.M. LEXINGTON, KY TIME

Offeror must acknowledge receipt of this and any addendum as stated in the Request for Proposal.

ITEM #1: NOTICE TO BIDDERS

- There was an error in “Addendum #2”. Please disregard pages 3 through 55 in “Addendum #2”. The information contained on those pages does not apply to this project.

ITEM #2: QUESTIONS AND ANSWERS

- Please refer to the enclosed written questions and responses when preparing your proposals.

OFFICIAL APPROVAL
UNIVERSITY OF KENTUCKY

SIGNATURE

Ken Scott 06/18/2024

Ken Scott, Purchasing Officer

Typed or Printed Name

Tunnel RFP
Question and Response Log
As Of: 06/18/2024 @ 8:36 AM

#	Date	From	Question	Responder	Response
1		Turn Key Tunneling inc. Chip Brown	Does the design for this tunnel need to be trenchless or can it be open cut?	Walsh	Trenchless under Limestone Ave. Limestone Ave shall not be shut down for extended lengths of time.
2			Is Blasting allowed?	UK	Blasting is not permitted.
3			Does the tunnel need to be square or are other layouts allowed?	THP	Section 11 on S711 is provided for a pipe support concept. Alternate tunnel shapes are permissible and must accommodate the piping and some form of supports. AEI Response: Alternate tunnel shapes are permissible and must accommodate the piping and some form of supports, as well as "Walkable Area" to permit utility maintainability / repair / replacement.
4			What is the required space between lines and what is the total space required?	AEI	AEI Response: The tunnel must allow for safe personnel access to each of the utilities and the ability to maintain. Because of this, the "Walkable Area" width shown on detail 9 on SU200 should be generally maintained like it is shown. Spacing between the pipes and to the tunnel walls must allow for utility repair / replacement of the welded steel piping system, insulation, and access to drains / steam traps / driplegs with appropriate pipe support structure. The configuration of the piping and walkable access area match previous UK Tunnels.
5			Where was the pervious tunnel and what were its dimensions and depth?	AEI	AEI Response: The most recently installed previous tunnel is located approximately 1,800lf north at the location where Leader Ave could extend to Limestone. The dimensions of this tunnel is identical to what is proposed for this project on detail 4 on SU200 with 11' wide x 10' high clear dimensions within the tunnel. The Finished Floor elevation for this previous tunnel is approximately 29ft below grade.
6			Are there any work hours restrictions that we will need to take into account?	Walsh	UK Project General Conditions 16.2.1 States "Normal Work hours are defined as a period between 7:00 a.m. and 5:00 p.m. Monday through Friday. The Subcontractor shall notify the Construction Manager's Project Manager at least one working day prior to performance of any Work for permission to do any Work during non-normal Work hours." Walsh is open to additional work hours beyond these that conform to local AHJ restrictrions and requirements. If subcontractor intends to perform substantial amounts of work outside of the standard work hours noted above it should be explained in their proposal response.
7			Can vibration be used on the site?	UK	Subcontractor would need to provide information related to this in their proposal and provide a study to confirm there will be no impact to hospital operations. No impact will be allowed to hospital operations.
8			It was noted that the geo report had a log at each end and one inside the footprint. Is this in a separate geo report from the one in attachment P?	Solid Ground	In the original Geotechnical Report for the Cancer Center Issued on August 1, 2023, two borings (B-36 and B-37) were drilled in an assumed location for the utility tunnel. At the time the investigation was performed, the utility tunnel location was not finalized. A supplemental letter issued on January 15, 2024 included three additional borings that were located with consideration of the planned tunnel location. The bidders will need both the original Geotechnical Report and the supplemental letter to be able to refer to all borings within the utility tunnel area. Letter is included in the addenda.
9		V-P Ram Engineering WW Chilton	At Manholes 4 & 5 representing the tunnel entry/exit shafts, what are the maximum dimensions of the area to be made available for laydown and equipment to work from beyond temporary earth retention limits?		Refer to the site logistics plans. West of Limestone is controlled by Walsh as part of the Cancer Center project. Coordination with other subcontractors will be possible to provide safe access and use of the site to maximize work area for tunnel contractors. East of Limestone is less restricted by ongoing construction but will have to be approved by UK to prevent interruption of access to the existing hospital or active academic buildings. A logistics plan should be provided with proposals for required area to complete the tunnel work.
10			Has Walsh or UK previously approached the KYTC regarding permitting or is that requirement to be borne exclusively by the contractor?	UK	Walsh has not been in contact with KYTC. Succesful Bidder shall assume all responsibility for permitting.
11			Will Walsh provide a source of potable water located near both entry/exit shafts?	Walsh	No, potable water will not be supplied

12			While the sides and tops of the box culverts can receive waterproofing with laps at each end section before being lowered into the tunnel, the base of the box culvert cannot be reasonably waterproofed. As such, underdrain piping would need to be laid at or below the bottom of the box culvert with flow directed to Manholes 4 & 5 for subsequent permanent sump pump discharge. Is this acceptable?	Champlin / THP	AEI Response: Drawing SU200 shows a dashed line representing "Manhole Underdrain", however the dashed line is shown around the manholes and the tunnel, so the intent was for an underdrain to be provided below or at the bottom of the box culvert. Flow would be directed to a dedicated manhole by Vault 4, called out as "Utility Tunnel Under Drain Manhole". This is a very similar system that was provided for the previous tunnel crossing under Limestone about 1,800 feet north of this crossing.
13			Should subsurface solution channels or karst features be encountered, will the contractor be reimbursed for remedial measures to address said features?	UK	Differing site conditions than what has been provided for in the documents could justify additional compensation.
14			Is it possible for Solid Ground Consulting Engineers to identify/specify the limestone formation member(s) from the core samples for B-36 and B-37? In 2007 the Grier Member was encountered during PCF Hospital construction which precipitated increased foundation depth excavation due to presence of "nodules". In 2017 a previous tunnel beneath Limestone encountered Brannon Member "flow-rolls" which had a number of compression cylinder breaks on the order of 18000 psi. Hence it is exceedingly important to have the parent bedrock classified accordingly.	Solid Ground	Upon review of the rock cores, we believe the below rock member breakdown is correct. Depths are measured from the top of the borings: B-36: 8.6'-28.0' Tanglewood member interbedded with another unknown member. B-36: 26.0'-30.8' Brannon member B-37: 11.6'-26.0' Tanglewood member B-37: 26.0'-30.6' Brannon member
15			Additionally, the profile on SU200 indicates B-2 as a 3rd boring in the tunnel area, but Figure 8 of the Geotechnical Report does not indicate a 3rd tunnel boring. Please clarify.	Solid Ground	AEI Response: A point of clarity on SU200, two bores on this document are shown as "B-2". The bore on the far right side of the profile on SU200, at the location of STM-4 Vault is "B-1" from the January 15th, 2024 Geotechnical Report from Solid Ground.
16			For discharge of groundwater, is it permissible to pump groundwater into silt bags with the water exiting the silt bags then being directed to a nearby storm sewer?	Carman / SWPPP	The SWPPP requirements for the project will ultimately be approved by UK SWPPP AHJ. Provisionally, that would seem to be acceptable. Suggest planning on silt bags in a dumpster lined with clean aggregate and filter fabric that would be parked on pavement adjacent to a storm inlet so it would maximize capture of sediment and overflow the bed to the storm sewer without any additional potential for erosion. Cancer Center SWPPP plan is provided with this addenda for reference.
17			The general work description basically leaves it to the contractor to establish depth of the tunnel. Is this correct, or is the tunnel invert to be set at EL 947.00+/- per Section 2 – SU200?	THP	Depth of the tunnel to be determined by the contractor's design.
18			What size box culvert is required?	AEI	AEI Response: The proposed size box culvert for the thermal utilities is shown on detail 4 on SU200. This box culvert is 11' wide and 10' high. Alternate tunnel shapes are permissible and must accommodate the piping and some form of supports, as well as "Walkable Area" to permit utility maintainability / repair / replacement.
19			Will Walsh/UK require the box culvert to be partially backfilled with free-draining stone and topped with flowable fill? Or perhaps flowable fill throughout?	Walsh	Any backfill between Vault 4 and 5 to be determined by Bidder and should be consistent with geotech report. Backfill of excavations after completion of the Vaults are to comply with the geotech report. Flowable fill is not preferred where future work is to be conducted including for maintenance or future connections of thermal utilities to the tunnel.
20		Drill Tech	Please clarify last day that UK will issue Addendum given last day for RFIs on May 30, 2024 and Proposal due on June 21, 2024.	UK	This response is included with the final planned addendum.
21			We respectfully request for a three-week extension to the Proposal due date. There are technical clarifications pending RFI's that will take additional time to consider in the technical approach and pricing.	Walsh / UK	RFP date will be amended. See Addendum
22			We respectfully request for a two-week extension to the RFIs due date. There are technical clarifications pending RFI's that will take additional time to consider in the technical approach and pricing.	Walsh / UK	RFP date will be amended. See Addendum
23			A pre-proposal conference was held on 05/23/2024 via Zoom. Was a recording taken of this session? If so, can it be shared with the offerors?	UK	No recording exists

24		<p>Article 13 titled "Blasting" in the Attachment A "General Conditions of the Contract" states that "blasting is not allowed unless permission is granted in the Special Conditions." Article 27 titled "Blasting" in Attachment B "Special Conditions of the Contract" states "there shall be no blasting under any conditions on University of Kentucky property unless specified in these Special Conditions."</p> <p>Is the University of Kentucky willing to consider blasting for limestone excavation of the tunnel and adjacent shafts for Vaults 4 and 5 pending approval of a detailed blasting plan including pre/post construction surveys of neighboring facilities, previous blasting experience with references, and ongoing vibration monitoring during blasting activities? In our opinion as an experienced underground blaster, this mode of excavation in limestone would help both cost and schedule of the project with provisions made to limit risk to nearby facilities and utilities.</p>	UK	No blasting is permitted.
25		<p>Detail 11 on Sheet S711 in Addendum #1 details the support structures for utilities installed by others inside a "Precast Concrete Tunnel." Is the University of Kentucky open to considering a tunnel final lining which is not precast? Based on our initial Value Engineering and the short length of tunnel, we believe a shotcrete or form in place concrete final lining would be beneficial to the project's overall cost and schedule.</p>	THP	<p>Section 11 on S711 is provided for a pipe support concept. Alternate tunnel shapes are permissible and must accommodate the piping and some form of supports.</p> <p>AEI Response: Alternate tunnel shapes are permissible and must accommodate the piping and some form of supports, as well as "Walkable Area" to permit utility maintainability / repair / replacement.</p>
26		<p>If a precast concrete final lining is the intended design, should the procurement and/or installation of the precast materials be included in this RFP?</p> <p>If so: 1) what are the minimum clearance envelope dimensions required for the tunnel initial support?</p> <p>2) what are the maximum lengths of precast sections to be built?</p> <p>3) what specifications will be followed with respect to squeezing sections together, contact grouting, etc. to ensure the structure is adequately installed and waterproofed?</p>	THP	Tunnel contractor to provide for design and construction of the final tunnel lining.
27		<p>Note 4 on Sheet SU200 in Addendum #1 states "Tunneling contractor shall also perform geo-technical investigation to gain a greater understanding of competent limestone rock that can be utilized for tunneling." When will this additional geotechnical investigation period take place? Will the University of Kentucky be looking for a credit based on the findings of this study if the tunnel can indeed be installed at a more shallow elevation?</p>	UK	Scheduling of supplemental geotechnical investigations may proceed immediately upon award.
28		<p>Will the University of Kentucky be looking for a credit based on the findings of this study if the tunnel can indeed be installed at a more shallow elevation?</p>	UK	No. After award, UK will not be looking for a credit nor providing additional funds if the tunnel depth varies from the conceptual design documents. The depth of the tunnel is to be determined by Offerors.
29		<p>Please provide details on how the overall best offeror will be determined. Will it consist of a numerical score of the proposals?</p>	UK	Best Offeror will be determined as described in Section 5.0 Evaluation Criteria Process of the RFP.
30		<p>Please provide clarification on the weighing between the different criteria in Section 4 of the RFP document. Are they equally weighed? If not, please provide additional details.</p>	UK	Best Offeror will be determined as described in Section 5.0 Evaluation Criteria Process of the RFP. Section 5.0 provides a distinction between Primary and Secondary Criteria within Section 4.0 of the RFP to determine the offer that provides Best Value to the project / University.
31		<p>Will a numerical scoring of all proposals be available to all offerors at the end?</p>	UK	During the selection process the scoring of proposals will be fully confidential. Following completion of the procurement process, information could be made available via open records request.
32		<p>Please provide timeframe on when offeror presentations this will take place.</p>	UK	Shortlisted firms may have interviews on July 18. Set times have not be established.
33		<p>Attachment G in the RFP package is Walsh's Exhibit B.2. This document provides detailed Scope of Work clarifications. Is the University of Kentucky and/or Walsh open to negotiations on some of these items in the "Competitive Negotiation" period referenced in the RFP document Section 6.3?</p>	UK	Bidders must include any potential issues that require clarification with their proposal so they may be evaluated along with the subcontractor proposal. Proposed Clarifications of this nature will fall into Section 3.6 Proposed Deviations from the RFP and reviewed accordingly.

34			Please confirm whether the signing of Walsh's subcontract agreement will be required with the submission of our Technical Proposal. Prior to signing an agreement we would need to perform a detailed review with our legal team. Can the offeror make comments/clarifications to the subcontract with our proposal? We have worked with Walsh in the past and do not have any significant concerns, rather we want to clearly understand the expectations in timing of such things.	UK	Bidders must include any potential issues that require clarification with their proposal so they may be evaluated along with the subcontractor proposal. Proposed Clarifications of this nature will fall into Section 3.6 Proposed Deviations from the RFP and reviewed accordingly. A signed contract is not a requirement of submitting a proposal.
35			Bullet Point 1.5 in the Instruction to Bidders document states "bid prices shall be entered in spaces provided on the bid form." Please point us to where the bid form is located. Is Section 8 "Financial Offer Summary" in the RFP document the only location where costs will be listed?	Walsh	Section 8 Financial Offer Summary is the location referred to for providing details of financial proposal.
36			Please confirm whether the installation of the precast concrete vaults should be included in our Proposal? We understand we should carry backfill costs for around the vaults once they are installed, but it is unclear whether we should plan to procure/install the precast concrete vaults themselves.	Walsh	Project intent is that the Tunnel Contractor will provide (Turn key Design, Permit, Build) the tunnel between Vaults 4 and 5. Vaults 4 and 5 to be designed by others and completed by others. Vaults 1, 2, 3, and 6 are out of scope for this solicitation.
37			The beginning of construction is stated to be "Q1 2025." Understandably this is rough timeline given the design and approval process, but for scheduling purposes we need to plan on a reasonable date. Does the University of Kentucky have any concerns with our excavation schedule (including mobilization and prep) starting on January 6, 2025?	Walsh	Walsh finds this date acceptable so long as design and permit processes are completed to support this schedule.
38			The RFP document Section 2.2 states Tunnel Completion shall be by October 31, 2025. Attachment B "Special Conditions" Article 6 states "substantial completion shall be 365 consecutive calendar days from the date of commencement as specified in the Work Order letter..." 1) What is the substantial completion date for this RFP's scope of work?	Walsh	Bidders should propose a project schedule with their proposal. If the current substantial completion date for tunnel of 10/31/25 is not feasible, bidders should explain why. Walsh will assess other aspects of schedule to see if this can be adjusted to maintain project schedule. Schedules extending beyond this date will fall into Section 3.6 "Proposed Deviations from the RFP" and reviewed accordingly.
39			Should we expect to pay the liquidated damages as outlined in Special Conditions Article 7 should our scope of work extend beyond planned substantial completion?	Walsh	Yes, Offerors should anticipate potential liquidated damages assessment if their work extends beyond the project schedule.
40			What design criteria and elements will the tunnel contractor be responsible for on the project? Tunnel initial support, waterproofing, tunnel final support, mechanical, electrical, structural?	Champlin	Design Builder shall be responsible for complying with this RFP and all applicable codes and laws governing this work. Design builder shall be responsible for all aspects of work between Vaults 4 and 5 along with all aspects of logistics for installation of the tunnel. This would include but not limited to: tunnel support, waterproofing, mechanical electrical, etc.
41			Shall the tunnel contractor price the installation of the piping/utilities in the tunnel after it is constructed or will this be by others?	Walsh	By others. Piping size and details provided for reference and planning as the full scope of thermal utility scope of work is still being designed. This scope of work will be available for bidding via UK's procurement process at a future date and would be open to the successful or unsuccessful bidders.
42			The Solid Ground Geotechnical Report dated August 1, 2023 does not provide geotechnical recommendations for the tunnel/shafts to be based upon. Does the University of Kentucky plan to provide this information or is the intent for these recommendations to come from the geotechnical exploratory phase performed by the tunnel contractor after contract award?	Solid Ground	At the time of the original Geotechnical Investigation, the utility tunnel location was not finalized. The supplemental letter issued on January 15, 2024, was issued as an evaluation of the rock quality for the planned utility tunnel location. Therefore, geotechnical recommendations for the utility tunnel were not part of Solid Ground's scope at the time the supplemental letter was issued. Solid Ground would be happy to provide any geotechnical recommendations necessary for the utility tunnel design.
43			Design of shaft structures for Vaults 4 and 5 will likely require horizontal members. Can the University of Kentucky provide any information for nearby utilities at these locations? Any information learned during the RFP process can help determine the best support of excavation method.	Champlin	Preliminary Conceptual Logistics Plans were omitted from the RFP, See Attachment K.UK Cancer Center Bid Package 2 in its entirety along with survey information as a for reference addendum is included in this addendum for reference. The area west of limestone is restricted by work to complete the cancer center structure and the ongoing use by UK of the Waller Annex. The logistics plans tentatively call out the area that can be accommodated. East of Limestone the work area is less restricted. Offeror is to provide a logistics plan with their proposed work area.
44			In Section 11 "Schedule" of Attachment G which is Walsh's Exhibit B.2, there is a mention of 10 hour days, some Saturdays, and weather days. Are there working hour or days restrictions in which the contractor is not allowed to work (i.e. Sundays, holidays, nights, 12-14 hour shifts, etc.)?	Walsh	UK Project General Conditions 16.2.1 States "Normal Work hours are defined as a period between 7:00 a.m. and 5:00 p.m. Monday through Friday. The Subcontractor shall notify the Construction Manager's Project Manager at least one working day prior to performance of any Work for permission to do any Work during non-normal Work hours." Walsh is open to additional work hours beyond these that conform to local AHJ restrictions and requirements. If subcontractor intends to perform substantial amounts of work outside of the standard work hours noted above it should be explained in their proposal response.

45			Sheet SU200 Detail 2 has excavation limits for the shafts in profile view, but not in Detail 1 (Plan View). Can the excavation limits in plan view be added for both Vault 4 and Vault 5 shafts?	AEI	AEI Response: In the Plan View, the dashed line noting "Shoring Limit" is intended to show the excavation limits that would minimize utility disruption for installing Vaults 4 and Vault 5 and where shoring would need to be provided. It is our understanding that the east facing side of the shoring limit at Vault 4 may be adjusted as a sloped excavation to allow for tunneling equipment to be provided. Considerations for maintaining the operation of existing utilities in this area is to be provided.
46	J.T. Ward	Rus Industrial	Is there an alternative tunnel geometry that is acceptable for bidding purposes? RUS can provide an alternative geometric design to the tunnel, but needs confirmation that we submit an alternative design.	Walsh	Varying site locations are not likely to be accepted as these have been coordinated with other site utilities. Geometry of the tunnel itself is to be determined by Offeror. See other RFI responses on this subject.
47			Are there any waterproofing requirements for the tunnel?	Walsh	Tunnel is to be waterproof by means determined by the Offeror. CTC Bid Package 7 (Core and Shell) was included with the RFP including specifications. The requirements of that specification will govern the waterproofing for the vaults on each end of the tunnel. A coordinated waterproofing solution between the tunnel and vaults will have to be provided.
48			Due to various delays in the bid process, Is it possible to receive a bid extension for 07/12/24?	Walsh	RFP date is being updated. See Addendum information.