

Ohio Department of Transportation

Prebid Questions

Project No. 091080

Sale Date - 7/29/2009

Question Submitted:

Question Number: 1

Please post the existing plan sheets

<ftp://ftp.dot.state.oh.us/pub/contracts/Attach/HOC-79577/>

Question Submitted:

Question Number: 2

Request for clarification: The drilling scope of work in the "Proposal--Abandoned Mine Grouting General Notes" and that in the "Special Provisions--Mine Stabilization" differ; e.g. the borehole diameters, casing size, casing grouting specs, etc. Which SOW is to be followed for the purpose of bidding? Request for clarification

Plan sheets 1154 through 1157 were deleted by addendum. Use the Special Provisions: Mine Stabilization (as revised by addenda) for drilling requirements.

Question Submitted:

Question Number: 3

Please post the existing plan sheets

<ftp://ftp.dot.state.oh.us/pub/contracts/Attach/HOC-79577/>

Question Submitted:

Question Number: 4

Request for clarification: The drilling scope of work in the "Proposal--Abandoned Mine Grouting General Notes" and that in the "Special Provisions--Mine Stabilization" differ; e.g. the borehole diameters, casing size, casing grouting specs, etc. Which SOW is to be followed for the purpose of bidding? Request for clarification

Plan sheets 1154 through 1157 were deleted by addendum. Use the Special Provisions: Mine Stabilization (as revised by addenda) for drilling requirements.

Question Submitted: 6/11/2009

Question Number: 5

Would ODOT consider making the electronic design files available for this project? Specifically, 3D files containing the existing contours, and proposed grade data from cross-sections (station, offset, elevation point data)?

<ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/HOC-79577/>

Question Submitted: 6/29/2009

Question Number: 6

1.Can 50% requirement by prime contractor be reduced since there is so much specialty work as paving and bridges?2.Since the grouting contract will not be able to meet any of the 8% D.B.E. will the goal be reduced?3.Without a Joint Venture, will re-Bond by major subs come off prequalification status for prime?

#1 The Department declines to lower the WT %. Please be aware of the provisions of addendum 1.#2: We respectfully decline to reduce the DBE%, they just need to indicate best efforts and that the significant amount of dollars set for the grouting makes it difficult to get the DBE number up.#3. At the time of bid the contractor must have enough dollar qualification for the entire job.

Question Submitted: 6/29/2009

Question Number: 7

For Bridge No. ATH-33-0036 L&R, the estimated quantities for Item 511 – Class C Concrete, Footing, seem to be understated. The contractor believes the plan quantities consider a footing with a height of 3 feet at the Forward Abutment (Left & Right Bridges,) rather than a footing with a height of 3.50 feet as shown on plan sheet 1318. Please review and revise.

Question Submitted: 6/29/2009

Question Number: 8

For Bridge No. ATH-33-0414 L&R, the quantities for Item 511 – Class HP Concrete, Bridge Deck, seem to be understated. The contractor believes the plan quantities do NOT include the concrete at the Pier Diaphragms. Please review and revise. If the Pier Diaphragms are not to be included with Item 511, please advise all bidders as to which item they are to be included with.

Question Submitted: 6/29/2009

Question Number: 9

For Bridge No. ATH-33-0414 L&R, the Approach Slab Parapet quantities are included with Item 511 – HP Concrete, Bridge Deck (Parapet). This is contradictory to the note on plan sheet 1364 which states that, "All materials and labor necessary to construct the barrier on the approach slabs shall be included with Item 526 – Reinforced Concrete Approach Slab (T=17 Inches), As Per Plan." Please revise the plan quantities according to this note.

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Ohio Department of Transportation

Prebid Questions

Question Submitted: 6/29/2009

Question Number: 10

For Bridge No. ATH-33-0414 L&R, the estimated quantities for Item 516 – Semi-Integral Expansion Joint Seal, As Per Plan, seem to be understated. The contractor believes the plan quantities to be roughly half of the actual quantities. Please review and revise.

Question Submitted: 6/29/2009

Question Number: 11

For Bridge No. ATH-33-0414 L&R, the estimated quantities for Item 518 – Porous Backfill With Filter Fabric, seem to be severely understated. Please review and revise.

Question Submitted: 6/29/2009

Question Number: 12

For Bridge No. ATH-33-0414 R, the estimated quantities for Item 511 – Class C Concrete, Pier Above Footing, seem to be understated. The contractor believes the correct quantity to be similar to 148 cy rather than the state 184 cy. Please review and revise.

Question Submitted: 6/29/2009

Question Number: 13

For Bridge No. ATH-33-0414 L&R, the estimated quantities for Item 516 – 2" Preformed Expansion Joint Filler seem to be understated. Please review and revise.

Question Submitted: 6/30/2009

Question Number: 14

When will the pre-bid sign-in sheet be posted?

Posted now.

Question Submitted: 6/30/2009

Question Number: 15

For Bridge No. ATH-33-0236 L&R, the quantities for Item 511 – Class HP Concrete, Bridge Deck, seem to be understated. The contractor believes the plan quantities do NOT include the concrete at the Pier Diaphragms. Please review and revise. If the Pier Diaphragms are not to be included with Item 511, please advise all bidders as to which item they are to be included with.

Question Submitted: 7/1/2009

Question Number: 16

Please reference to page 23 of the Proposal, our understanding of the US DOL law is that only the employee name and ID# are to be printed on certified payroll. The address and social security numbers are a violation of the privacy act as of early 2009, is the name and ID# only what needs to be provided?

Question Submitted: 7/10/2009

Question Number: 17

Please provide D-loads for the four - 42" "special design" culverts at stations 287+73, 289+60, 302+10 and 323+77. Pipe designs and testing will be arbitrary and can vary greatly unless the Department specifies the D-load.

See the 603, Conduit, Type A, 706.02 or 706.03 (Special Design) note on plan sheet 36.

Question Submitted: 7/10/2009

Question Number: 18

Would ODOT consider making the storm sewer profile plan sheets available for this project? The plan & profile sheets and the cross sections are unclear on several pipe runs. Could ODOT please Clarify. Will ODOT allow trees, stumps, and brush to be wasted in the designated waste areas in the plans? Will ODOT allow burning of the clearing and grubbing materials?

Answer 1: Plan sheet 520G was the only storm sewer profile sheet created for the project. The remaining storm sewers are shown on the plan and profile sheets while the actual layout data is given on the cross sections sheets. Please send the reference numbers, stations or other identifiers of the sewers needing clarification. Answer 2: Yes. The placement of vegetation materials should be addressed in the plan prepared by the geotechnical consultant (ODOT Designated Waste And Borrow Areas note on plan sheet 36). Answer 3: ODOT does not have a project specific prohibition. Follow state and local regulations.

Question Submitted: 7/10/2009

Question Number: 19

1. For Br. No. ATH-691-0981, the location of formliner pattern 1 shown for the piers on sheet 1380 of 1510 is vaguely detailed. Pattern 1 is 1'-6" x 1'-6" and is detailed by dimension lines to extend from the top of the pier pilaster to the 6" haunch and again below the 6" haunch to the top of the drilled shaft. The pier column varies from 3'-0" at the top to 3'-6" at the bottom. How is the formliner laid out on the pier columns? 2. Who are the manufacturers of the two formliner patterns specified for the piers? There are no plan notes regarding the formliner. 3. There is no pay item for the formliner, unlike the other structures on this project. How is the formliner to be paid? 4. Regarding the 4-1/2" PEJF between the pier pilaster and the box beams (section H-H on sheet 1380 of 1510), where is the 4-1/2" PEJF included for payment?

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Ohio Department of Transportation Prebid Questions

Question Submitted: 7/10/2009

Question Number: 20

Can the maximum 6 3/4 inch diameter production blasting be exceeded if the contractor can comply with all vibration control/monitoring and all airblast/noise control requirements?

No. Follow CMS 208 as modified by Supplemental Specification 800.

Question Submitted: 7/13/2009

Question Number: 21

1. What will be the compaction requirements for Waste Areas 3&4?2. Can the contractor assume that the proposed elevations of Waste 3 & 4 can be adjusted to accomodate all the excess excavation from this project should the current proposed elevations shown not be sufficient?3. Can ODOT provide their quantity takeoff of overburden, shale, coal and sandstone which makeup the total "Excavation per plan" as shown on sheets 87-90 of the plan set?4. Sheet 31 special provision for clearing & grubbing states to remove all trees within the work limits. The fence as shown on the plan sheets for the mainline (sheets 94-126) lies outside the work limits. Will the contractor be asked to clear to the work limits, the backside of the fence or all the way to the ROW line?

Answer 1: Compaction should be addressed in the plan prepared by the geotechnical consultant (ODOT Designated Waste And Borrow Areas note on plan sheet 36).Answer 2: The waste areas shown are conceptual designs and the contractor may develop alternative configurations. ODOT has not capped the volume that can be placed in the waste areas.Answer 3: ODOT does not pay for excavation of various soil and rock types individually so there is no official tally of these volumes. There is only one pay item for roadway excavation.Answer 4: The Contractor must clear the roadway work limits and enough width along the fence line in order to have room to construct the fence. ODOT is not requiring the Contractor to clear every tree from left R/W line to right R/W line. It is anticipated that there will be a combination of locations on the project where there will be a stand of trees between the fence and roadway clearing, other locations where there are no trees left between the fence and roadway, and some locations where there are trees left between the fence and R/W line. The width needed for fence construction is left up to the Contractor as long as all the work stays on the R/W.

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Ohio Department of Transportation

Prebid Questions

Question Submitted: 7/13/2009

Question Number: 22

1.Special Provisions (4.2.3) "Piping": It is not practical to pump concrete / grout through a normal four (4) inch slick line at velocities exceeding 15 ft. per second. Note: Concrete and grouts utilized in mine abatement project always utilize a minimum 4 inch slick line that enables higher productions while keeping pumping pressures at a minimum. Example: Pumping at 100 cy / hr only generates a velocity of 8.7 ft. / sec through a 4 inch line. Note: Historically, line pumping velocities rates are normally relegated to hydraulic conveyance of solids. Can this requirement be waived?2.Abandoned Mine Grouting General Notes Section 4.3.1 "Barrier Grout" and Section 4.3.2 "Production Grout" and Special Provisions Section 5.0 "Grout Mixes": The General Notes provide prescriptive grout mix designs while the Special Provisions state that the contractor shall design the grout mixes. Also the General Notes specify a barrier grout mix composed of cement, fine aggregate, and coarse aggregate based on the void height. The Special Provisions specify a barrier grout mix composed of cement, flyash, and fine aggregate. Finally, the General Notes specify a production grout mix composed of cement, flyash, and fine aggregate. The special provisions specify a production grout mix composed of cement and flyash. Which documents should be followed? 3.Special Provisions (4.6) "Drilling Equipment": In drilling hard rock formations, a minimum of 3,000 ± pounds of down force per inch diameter of hole is required for efficient tri-cone roller bit drilling. Whereas, percussion drilling methods only require a total of 500± pounds of down force to drill this same formation. Reducing the drilling down pressure above the mine roof seems like a good idea, however, the original mine roof has often collapsed or fallen over time, causing the original void to be 10 to 20 feet above the initial mine location. Not knowing where the roof elevation is, the driller will not reduce the down pressure on the tri-cone drilling method causing additional roof fall. The only place percussion drilling should not be utilized are within 20 feet of a structure where the condition of the foundation is unknown. Can percussion drilling be used where needed?4.Special Provisions,(7..5 & 7.6 "Barrier & Production Grout Placement": When pumping either Barrier or Production grout mixes in high volumes through both 4 inch slick lines and tremie tubes, it is impossible to stop pumping when either mix is 2 ft. above the roof of the mine void. The nominal ID of the drilled hole is 6 inches subtracting a 4 inch HDP; SDR 11 tremie pipe OD at 4.5 inches leaves only a .075" annular space. When pumping grout in the quantities required by this project, the hole will overflow into the annular space between the tremie pipe and the ID of the drilled hole before the grout can be stopped. Additionally, as the tremie pipe is pulled from the hole, the interior contents will nearly complete the infilling of the borehole. Typically the grout mix that is being injected into the mine is also used to fill the stem of the borehole. Is that acceptable here?5.Special Provisions,(7..8) "Overburden Soil Grouting": The silt & clay, silt clay, and sandy silts represented within the Contract Drawings "Soil Profile" [page 1 of 89], "Legend for Project Average Results of Test –Samples Tested" can not be considered for permeation grouting utilizing pressure and grout mix constituents noted within this specification. Only chemical grouts of Silicate [of low concentrations or clarified], Aminoplast, Phenoplasts, Acrylates, and Acrylamide families of grouts should be considered for this application. Also, section 3.1.2 of the General Notes only requires that the casing be removed to a level at least 6 inches below the proposed ground surface/subgrade. The industry standard is in conformance with the General Notes. Can the General Notes be followed in this case?6.Special Provisions (11.14) "Roadway Misc.: Water; MGAL": Section 11.14 provides a method of payment for water utilized in the manufacture of grout and concrete but there is not any corresponding pay item. Will a line for this item be added?7.General Notes Section (2.5) "Concentric Drilling": Please explain the "concentric drilling" procedure referenced by the General Notes. Normal and customary methods of advancing steel flush-joint casing through fractured or unstable overburden utilizes "eccentric drilling" practices; where the drill bit extends slightly in-front-of and is beyond the external casing diameter, allowing the casing to closely follow the advancing drill bit. We do not know of other methods that will allow the casing to be installed simultaneously and concentrically with the drilling operation, while enabling the casing to be advanced through hard fractured overburden formations. Construction and Material Specifications 107.11, Paragraph (C.1.2 & 3): "Placement of a Portable Plant within the Project Right-Of-Way or on other Department-Owned Property" Will the Department allow portable grout mixing plants to be erected and utilized on the project right-of-way [meeting all requirements of the afore noted specification] without having to perform a "Value Engineering Change Proposal" after the contract award? Note: Savings by utilizing portable plants on Department right-of-way or property would be integrated in bid line item savings. 9.Contract Drawings, Page 12400, "Abandoned Mine Grouting Grand Totals". In the spreadsheet labeled "Grand Totals", last column, "Conventional Angle Drilling" is noted twice. The totals quantities shown indicate "Concentric Drilling".10.Proposal Document for project No. 091080, "PN 520 – 03/01/2006 – Fuel Price Adjustment" The mine grouting items are designated under item code 203. Will the fuel surcharge for Code 203 – Category Earthwork apply to these items? If so, will items with units in FT and TON use the same usage factor? If not, due to the large quantities can a different or special fuel usage factor be applied? Please clarify ODOT's intent with regards to fuel for the mine grouting items.

Answer 1: Changed by Addendum No. 6.**Answer 2: Plan sheets 1154-1157 were deleted by Addendum No. 5.****Answer 3: Changed by Addendum No. 6.****Answer 4: Changed by Addendum No. 6.****Answer 5: Cement-based grout will suffice as a void filler. Casing requirements changed by Addendum No. 6.****Answer 6: See Reference No. 93.****Answer 7: Plan sheets 1154-1157 were deleted by Addendum No. 5.****Answer 8 (Unlabeled in questions): A specific project area was made available in a prior addendum.****Answer 9: Changed by Addendum No. 6.****Answer 10: The fuel price adjustment note is for the standard excavation and embankment items listed in the note.**

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Prebid Questions

Question Submitted: 7/13/2009

Question Number: 23

These question pertain to the Mine Stabilization Items;1. Does the production grout require fine aggregate?2. Please clarify General Notes, Section 2.1, 3rd paragraph; "Drilling of barrier holes shall commence near the center of the area to be grouted and progress outward towards the ends." Barrier holes are identified on the drawings, and generally follow the perimeter limits of the work in a linear pattern. How are we to "progress outward" in a line?3. Special Provisions, page 18, second paragraph, please define "an excessive take of production grout occurs based on theoretical volumetric calculations..."4. General Notes, Section 2.4, second paragraph, please provide requirements for approval of percussion drilling by the Engineer.5. If a hole is drilled using conventional drilling methods and it collapses due to fractured conditions and needs to be concentric drilled, shouldn't it be drilled at the original location, and will the Contractor be paid for the drilled length by both systems?6. Please identify the area where concentric drilling is being considered.7. General Notes, Section 3.1.1; Please elaborate on the purpose of annulus grouting of the casing. This process will impede overburden grouting, if required, and will prevent removal of the casing at the conclusion of the grouting of that location. 8. Please clarify which applies to the concentric drilling pay item, General Notes, Section 2.6.2, second paragraph or the Special Provisions, Section 11.7. And will concentric drilling be paid from the ground surface to the bottom of the hole or only from the elevation of the collapse to the bottom of the hole.9. Is the Contractor restricted to using the grout mixes provided in the General Notes or are alternate mixes and materials acceptable that meet the viscosity and strength requirements?10. Since the mixing and pumping properties differ materially, please provide a separate breakdown of the barrier grout quantity and the production grout quantity and consider separate pay items for placing these 2 grouts.11. Please consider separate pay items for tremie placement, pressure grouting in rock and pressure grouting in soil, since the means and methods for carrying out these operations differ significantly.12. What is the purpose for the 7 day maximum (in the Special Conditions and 3 days in the General Notes) time in which a hole may remain un-grouted? It would benefit the project to utilize several holes for observation and venting as the grouting progresses.13. Does the Nelsonville gross receipts tax apply to the grout materials in place or just to the cost of the materials purchased? 14. Can you provide an electronic version of the spreadsheet showing the grout hole locations, depths, angles, purpose, etc. in electronic format (i.e. Excel)?

Answer 1: Fine aggregate is not required, however a quantity assuming its use in production grout has been used in calculating the estimated quantities of the grout components. Answer 2: Plan sheets 1154-1157 were deleted by addendum. Theoretical volume calculations are based on area treated, void height, and extraction percent, varying by location. A grout take in excess of the theoretical volume may or may not indicate grout is traveling where it shouldn't. Takes and soundings of adjacent holes need to be considered, with a staged approach so we aren't unnecessarily putting materials in the ground.. Answer 4: Plan sheets 1154-1157 were deleted by addendum. Answer 5: The Special Provision as written relies on the Contractor and his expertise to produce the borehole, and gives incentive for the Contractor to use good drilling technique. The Contractor can choose to account for redrills or secondary casing (7.3.2) at his discretion. Answer 6: In this setting, we did not see a pattern of fracture conditions that would allow locations to be identified, yet there was a portion of the exploratory drilling that showed broken rock or high angle fractures. Answer 7: Plan sheets 1154-1157 were deleted by addendum. Answer 8: Plan sheets 1154-1157 were deleted by addendum. Answer 9: Plan sheets 1154-1157 were deleted by addendum. Answer 10: The placement is similar enough, and the overall proportion of barrier and production grouts is known, that we think it is appropriate to use a single pay item. Answer 11: There are separate pay items for barrier/production grout placement and overburden (pressure) grout placement. Answer 12: The Engineer can approve the use of a number of holes for those purposes, however leaving large numbers of holes ungrouted will not be permitted. Answer 13: The "Nelsonville Gross Receipts Tax" questions needs to be posed to the appropriate taxing authority. ODOT does not have authority in this regard. Answer 14: The grout hole information was developed with CAD software. No spreadsheet is available.

Question Submitted: 7/13/2009

Question Number: 24

Questions regarding the Abandoned Mine Grouting Notes (sheets 1154 through 1157) of the Project Plans and the Special Provisions titled Mine Stabilization dated 5-26-09; In the General Notes on the Plans, section 2, paragraph 2.4, a 10" nominal borehole diameter is specified, in Section 3, paragraph 3.1.1, a 6" diameter PVC pipe is specified for surface casing and a 10" diameter borehole is specified and in paragraph 3.1.2, it states that "casings shall be set or pushedsuch that the bottom of the casing is flush with the top of the mine void". In the Special Provisions, section 7.3, paragraph 7.3.1, it is stated "Advance a minimum 6" injection borehole through soil to the top of rock. Install a minimum 4-inch I.D. PVC casing or 4" I.D. steel casing and firmly seat in rock". There is no mention of providing casing to the top of the mine void. 1. What specification takes precedence; the "General Notes" on the Plans or the "Special Provisions, Mine Stabilization"?2. Is casing required for all drill holes?3. What is the minimum required borehole size for production work, 6", 10" or something else?4. Is casing required only in the overburden soils, seated to the top of bedrock as stated in the Special Provisions, or all the way to the top of the mine void as stated in the General Notes?5. If 4" (or 6") PVC or steel casing is used as specified, how are we to drill a larger hole (6" (10") in the rock and into the mine void after the specified size of casing is placed in the hole to stabilize the overburden soils without using a percussion under-reaming drilling system?6. If the surface casings are grouted into the soil as stated in the General Notes, section 3.1.1, second paragraph, how are the casings to be removed in order to perform any grouting of overburden soils, which could be requested by the Engineer, or will the Contractor be paid for drilling a replacement hole in order to carry out any grouting of overburden soils?7. Please clarify the maximum angle of the angled boreholes as being measured from horizontal or vertical. The 75° from vertical is only 15° below a horizontal plane, which is a very flat angle for conventional drilling equipment.

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Prebid Questions

Question Submitted: 7/13/2009

Question Number: 25

Under the Special Provision for Mine Stabilization, Item 3.0 - Materials, Paragraph 3.2 Flyash: The specification requires the flyash to meet ASTM C618. This means that the ash needs to be conditioned to a very low moisture content. Using a dry ash will cause both delivery problems and grout mixing problems. Though said dry ash can be used, it will significantly increase the cost to ODOT. Given that water will be added to produce the grout, we don't understand the logic in requiring delivery and handling of dry ash. Can the moisture % under 618 be waived? Secondly, we find no L.O.I. Limits for the flyash in Paragraph 3.2. We suggest that ODOT consider utilizing the Office of Mines limits of an L.O.I. < 12.0%.

Answer 1: Addressed in Addendum no. 6. Answer 2: The specification references ASTM C618 which requires an LOI of < 6% with the possibility of < 12% if satisfactory performance records or laboratory test data can be provided (It may be difficult to achieve the necessary results with LOI > 6%).

Question Submitted: 7/13/2009

Question Number: 26

In the Special Provision for Mine Stabilization, Item 4.4 -Video Camera Inspection System: The spec requires a color video. Please be advised that the industry standard and the equipment owned by said specialty contractors is a black & white video. Though the cost of purchasing a color camera can be added to the project, will said premium price be warranted, given the intended use?

Question Submitted: 7/13/2009

Question Number: 27

Special Provision for Mine Stabilization, Item 4.6 – Drilling Equipment: This spec disallows the use of 'percussion' drills. It is our understanding that a percussion drill will apply less force to the roof of the mine, and therefore reduce the risk of roof collapse. Also, we understand the Office of Mines agrees with using percussion drills. Will ODOT allow percussion drills to be used?

Question Submitted: 7/13/2009

Question Number: 28

In the Special Provision for Mine Stabilization, Item 7.5 – Barrier Grout Placement: Paragraph #2 is requested to be deleted, for it places a substantial immeasurable risk on the contractor for events beyond his control, in potential/likely unstable underground conditions.

The specification as written relies on the Contractor and his expertise to produce the borehole, and gives incentive for the Contractor to use good drilling technique. The Contractor can choose to account for redrills or secondary casing (7.3.2) at his discretion.

Question Submitted: 7/13/2009

Question Number: 29

Please specify which bridge approach embankment waiting periods are to be followed; those in the general notes or those in the bridge notes.

Please see addendum 5.

Question Submitted: 7/13/2009

Question Number: 30

Proposal Note 520 for fuel escalation does not include fuel related to delivering the sand, aggregate, flyash or cement for the grout. Due to the sizeable risk, please add these items.

Question Submitted: 7/14/2009

Question Number: 31

1.The summary on sheet 93 shows a MH, No. 3 from sheet 94; however, there is no MH, No. 3 shown on plan sheet 94. Please revise.2.The 87" x 136" culvert on sheet 821 has a quantity of 147 lf on sheet 821; however it has a quantity of 158 lf on sheet 963. Which is correct?

Question Submitted: 7/15/2009

Question Number: 32

In the Special Provisions: Mine Stabilization Materials section 3.2 Flyash; can the Flyash be certified as meeting ASTM C 618, Class F in the Silo at the Powerplant and then water added in order to facilitate transportation to the project?

See addendum 6

Question Submitted: 7/16/2009

Question Number: 33

The sand will need to be purchased at the start of the project due to the quantity required for the mine grouting. The quantity could drastically overrun or underrun. Would ODOT reconsider this position and provide some form of compensation for costs incurred?

Our answer is the same as the previous email. ODOT does not have any other contract language to deal with overruns of bulk materials.

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Ohio Department of Transportation

Prebid Questions

Question Submitted: 7/16/2009

Question Number: 34

Please reconsider question and answer in Addendum #2. Question: What compensation is available if a large amount of sand is stockpiled and there is an underrun on the amount needed? Answer: ODOT will not purchase stockpiled mine grouting components. Only CMS 104.02 will apply for price adjustment. The other mine grouting components would have an immediate market such as flyash and cement. The sand component 347,853 tons must be produced in advance for availability as needed. The schedule dictates producing and stockpiling very large quantities of sand. There is a substantial cost risk if this component significantly underruns. Since no one knows what the ultimate quantity will be, and since the quantity could vary significantly, please determine some form of compensation for cost incurred in producing this large quantity of grouting component if non-performed.

There is no change in the answer. ODOT does not have any other contract language to deal with overruns of bulk materials.

Question Submitted: 7/16/2009

Question Number: 35

There is a large quantity of 30" shallow underdrain located in rock cut areas similar to sheet 525. These underdrains will have to be rock cut underdrains since they are below the roadway undercut; however, there is no bid item for these. Please add this item for this work.

Question Submitted: 7/16/2009

Question Number: 36

On page 4 of Addendum No. 4 does the following mean that we cannot pay employees by direct deposit? "The Contractor and all subcontractors shall pay all wages and fringe benefits by company check."

Direct deposit would be acceptable.

Question Submitted: 7/17/2009

Question Number: 37

There are various bid items for intermediate diaphragms. They are listed "As Per Plan." There are no plan notes addressing them. Why are they marked "As Per Plan?"

Question Submitted: 7/17/2009

Question Number: 38

Bridge 78-0117 does not have a Cofferdams, Cribbs & Sheeting pay item. There is substantial work for this (temp dikes, etc) Please add an item.

Question Submitted: 7/18/2009

Question Number: 39

Will any of the temporary erosion control BMP's needed for Waste areas 3&4 be paid for under the allowance for "Erosion Control" Item 832?

Yes, most BMP's utilized in the waste areas (Contractor Earth Disturbed Areas) will be compensated for from the erosion control lump sum. There are a few BMP types that are considered incidental. See Section 832.14 and Appendix F of Supplemental Specification 832 for more information.

Question Submitted: 7/2/2009

Question Number: 40

Are there existing drawings for the structure removed items which are Biditems 3, 4, and 5?

<ftp://ftp.dot.state.oh.us/pub/contracts/Attach/ATH-79577/>

Question Submitted: 7/2/2009

Question Number: 41

Could the existing plans for Bridge No. ATH-691-0982, Existing SR 691 Over the Hocking River, please be made available online?

<ftp://ftp.dot.state.oh.us/pub/contracts/Attach/ATH-79577/>

Question Submitted: 7/2/2009

Question Number: 42

For Bridge No ATH-33-0236 L/R, the estimated quantities for Item 509 - Epoxy Coated Reinforcing Steel are incorrect. Our take off indicates a total for both the Left & Right structures to be 540,136 lbs. Each structure should have approximately 270,068 lbs, not the 520,099 lbs as shown in the plans. Please review and revise.

Question Submitted: 7/20/2009

Question Number: 43

As per the special provisions there is a bid item (11.7 concentric drilling) but there is not specifications for this bid item. There were specs for this bid item but they were deleted by addendum. (reference page 1154)

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Ohio Department of Transportation Prebid Questions

Question Submitted: 7/20/2009

Question Number: 44

With regard to Addendum No. 9, adding a concrete pavement alternate, which is a significant change in direction of the project, warrants a longer delay period than just a week. The LAK-2-3.32 project (080597), which also added a concrete pavement alternate by addendum, delayed the bid date 5 weeks when that change was posted. We respectfully ask that the bid date on this project be delayed further to give adequate time to prepare and respond to this significant change in bid requirements.

The Department declines to revise the bid date. The project already had a large amount of work requiring the production of cement based items.

Question Submitted: 7/20/2009

Question Number: 45

Relative to the revisions and additions of items for the pavement alternates, Ref. No. 215, 452E13000, 9" Non-Reinforced Concrete Pavement (26343 SY) for the ramps, should be a deleted bid item and then an added item for both Alternate AA1 and Alternate AA2. This item is directly impacted by which pavement type is ultimately constructed for the mainline pavement and therefore it needs to be included with the alternate bid items in order to get a true comparison of the different pavement alternates.

The Department declines to change the reference sections.

Question Submitted: 7/22/2009

Question Number: 46

The subsummary on sheet 92 shows a quantity of 10.39 CY of Concrete Masonry from sheet 110. This appears to be a mistake. Please verify.

Question Submitted: 7/22/2009

Question Number: 47

On Structure 336L&R will there be placement of polystyrene filler or removable forms on the bottom of the end diaphragms? Please advise.

Plan sheets 1324-1327 reference Standard Drawing SICD-1-96 for additional notes and details. The standard drawing shows the positioning of filler/removable forms.

Question Submitted: 7/22/2009

Question Number: 48

Can the asphalt pavement quantities for the sideroads be added to each group of alternate bid items? We don't want them combined with the alternate asphalt quantities. But since the cost for these items will vary depending on which pavement alternate is chosen they will need to be priced two ways. Grouping all of the items together in each alternate package will make it much more simple to compare asphalt versus concrete.

The Department declines to change the reference sections.

Question Submitted: 7/22/2009

Question Number: 49

There is large quantity of sandstone to be excavated on the project. There is a question of soundness of this rock. Will ODOT permit this rock to be used as RCP A, B, C, D if soundness requirements are not met? Using this sandstone in lieu of purchasing dump rock would amount to a substantial savings to ODOT?

No. Material used for rock channel protection must meet the requirements in CMS 601.

Question Submitted: 7/22/2009

Question Number: 50

On Structure ATH-33-0981 - Line 649 of the Proposal shows the Reinforced Concrete Approach Slab to be T=15". Plan sheets 1372, and 1377 show the Approach Slab thickness to be 13". The plan length of 20' would also indicate a 13" slab. Please verify the correct thickness.

Question Submitted: 7/23/2009

Question Number: 51

Please clarify the Abandoned Mine Grouting Quantity Item 203, Roadway, Misc.: Monitoring Well; it's not mentioned in the special provisions or drawings.

See the note of plan sheet 35 in the right most column.

Question Submitted: 7/23/2009

Question Number: 52

The proposal includes a pay item for Video Inspection (See Item 92 - 690E98600 - MISC. VIDEO CAMERA INSPECTION, 200 HOUR. I find no details in the plans that define the scope of this item. What is this item for?

Question Submitted: 7/23/2009

Question Number: 53

Due to the differences in pumping and production efficiencies, please consider separating the barrier grout quantity and production grout quantity into 2 separate pay items.

The Department declines to create multiple pay items.

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Ohio Department of Transportation

Prebid Questions

Question Submitted: 7/24/2009

Question Number: 54

The plans call for a 1 yr old seedling. Can we get a more specific size for the seedlings?

We cannot be any more specific.

Question Submitted: 7/24/2009

Question Number: 55

RE: Ref. No. 30 Roadway Misc: Backstowing:

Page 1153 of the plans states that the backstow stone shall be No. 4 washed river gravel. We have just been informed by the material suppliers that they are unable to produce the significant amount of quantity required for this item. The item calls for 17,618cy of material while the suppliers are only able to produce 2000-3000cy per year. Will ODOT consider the use of an alternative material for the backstowing? In lieu of the No. 4 washed river gravel please consider No. 4 crushed gravel.

Question Submitted: 7/27/2009

Question Number: 56

Re: SR-691 over Hocking River (sheet 1378). The quantity for the 72" drilled shafts above bedrock appears to be incorrect. The typical above rock shaft lengths are 30.8 LF at Pier #1 and 13.3 LF at Pier #2, for a total of 132.3 LF. The proposal lists a quantity of 146.0 LF. Please confirm.

Question Submitted: 7/27/2009

Question Number: 57

SPECIAL PROVISIONS: MINE STABILIZATION5.2 Production Grout5.3 Barrier GroutEach section requires a minimum cement content of 10%Question: Is it 10% cement by weight or by volume?

Question Submitted: 7/27/2009

Question Number: 58

Special Provisions / Mine Stabilization Dated May 26 20095.0 GROUT MIXESGrout for injection should be composed of a mixture of cement, flyash, fine aggregate and water.5.2 Production Grout: Provide a mix consisting of water, Type I or Type II Portland Cement and flyash.Question: In section 5.2, should fine aggregate be included as a Production Grout constituent?

Question Submitted: 7/28/2009

Question Number: 59

It does not appear that the EBS bid proposal reflects the quantity change for Line 647 that was in Addendum No. 14.

Question Submitted: 7/28/2009

Question Number: 60

Disregard previous question regarding Line No. 647Thanks

Question Submitted: 7/3/2009

Question Number: 61

Please reference to page 23 of the Proposal, our understanding of the US DOL law is that only the employee name and ID# are to be printed on certified payroll. The address and social security numbers are a violation of the privacy act as of early 2009, is the name and ID# only what needs to be provided?

Question Submitted: 7/6/2009

Question Number: 62

For Bridge No. ATH-691-0981, there is a note on plan sheet 1371 which states that Superstructure Concrete is to be Class QSC2. In the Estimated Quantities chart on plan sheet 1372, Item 511 – Class HP, Bridge Deck contradicts this note. The contractor presumes it is the Department's intent for the superstructure concrete to be Class QSC2. Please confirm.

Question Submitted: 7/6/2009

Question Number: 63

For Bridge No. ATH-691-0981, the estimated quantity for Item 511 – Class HP Concrete, Bridge Deck, seems to be understated. Please verify that the stated quantity of 215 cy is correct and that it includes both the Deck and Sidewalk quantities. Also, please note which item the Abutment Backwall Concrete is to be included with.

Question Submitted: 7/6/2009

Question Number: 64

On the Vegation planting plans sheet 1077/1510(area 3-ts,4-ts) and sheet 1082/1510(1-ts,2-ts,3-ts), it is tabbed for Seeding and mulching as per plan B but the plans do not state which class of seed mixture is to be used. Please clarify which mix is to be used in these areas.

See addendum 2. The seed mix corrections were made in it.

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Ohio Department of Transportation

Prebid Questions

Question Submitted: 7/6/2009

Question Number: 65

According to ODOT spec 102.07 I believe there is an error in the quantities of PCB. The Portable Concrete Barrier on pages 55-77 and 61-63 show the 50" PCB APP ending at a certain station and 32" PCB starting. This is according to an old standard. Please revise quantities according to MT 95.70 which requires the whole run to be 50" APP.

Question Submitted: 7/7/2009

Question Number: 66

WE UNDERSTAND THAT THE SPECIALTY CONTRACTOR FOR GROUTING, THE AMOUNT OF WORK DOES NOT COUNT TOWARD THE 50% REQUIREMENT OF WORK DONE BY THE PRIME CONTRACTOR. WE ALSO (THING) WE UNDERSTAND THAT IF WE JOINT VENTURE WITH A SPECIALTY CONTRACTOR TO DO THE GROUTING THAT IF THE JOINT VENTURE PERFORMES THE GROUTING THAT IT WILL COUNT TOWARD THE 50% DONE BY THE JOINT VENTURE / PRIME CONTRACTOR. IS OUR UNDERSTANDING CORRECT?

Section 5501:2-3-05 of the Ohio Administrative Code states a bidder, whether the bidder is a joint-venture or an individual contractor, must possess work types, and perform work, equal to at least 50% of the total amount of the submitted bid price. The grouting work on this project will not be considered when applying the above rule.

Question Submitted: 7/7/2009

Question Number: 67

Addendum #2 increased the quantity of Fence Misc, Wildlife Jumpout (Ref. 80) from 7 ea to 8 ea, but did not increase the corresponding Gabion quantity (Ref. 94). Please increase the quantity of Ref. 94 to cover the jumpout increase.

Question Submitted: 7/8/2009

Question Number: 68

Are 614 or 621 work zone raised pavement markers required over the winter? There are rpm's outside of transition areas on the side roads, will these need 621's if they go over winter?

The use of Work Zone Raised Pavement Markers on the side roads is at the tie in points which are likely to have short term durations. Their use for the crossover on plan sheet 57 is in addition to the edge lines which means they could be omitted if the crossover is used during winter.

Question Submitted: 7/8/2009

Question Number: 69

Will pre-split blasting be required along the 1/4:1 cut slopes below final grade in the deep undercut areas? (For example, see sheet 192/1510.)

Yes. Presplitting quantities were included for the deep undercuts. The area shown on sheet 192 is summarized in the left most column on plan sheet 41.

Question Submitted: 7/8/2009

Question Number: 70

Does ODOT have a maximum hole spacing in mind that will be allowed for the pre-split blasting? Specification 208.09 regarding pre-split blasting does not define a maximum allowable hole spacing. Reference is made to 208.07 regarding test sections. But that language only discusses adjusting the spacing "as needed" from 36 inches to 42 inches until the spacing is approved. Please advise.

Question Submitted: 7/8/2009

Question Number: 71

For bid items 343 Concrete Barrier Removed and 344 Removal Misc.: Impact Attenuator, who is responsible for hauling and setting these items? Looking at Part 2 HOC/ATH-33-16.52/0.00 there is no quantity setup for this as well as Part 1 (ODOT 070353). If Part 3 is responsible for this are these bid items (343 and 344) to include the hauling and setting of these items?

The contractor on HOC/ATH-33-19.89/1.20 is only responsible for removal of these items (Reference Numbers 343 and 344). The items would be supplied and placed on the HOC/ATH-33-16.52/0.00 project and are Reference Numbers 199 and 208 in that project's proposal.

Question Submitted: 7/8/2009

Question Number: 72

Will the Department allow the use of stay-in-place metal decking on this project?

No. Section 302.2.6 of the ODOT Bridge Design Manual (2004 ed.) states "Galvanized steel or any other material type, stay in place forms, shall not be used."

Question Submitted: 7/8/2009

Question Number: 73

On Structure 0124L&R, the unclassified excavation for the rear abutment seems to be overstated. At a 1:1 slope from the heel of the spread footing to the top of the profile grade line the existing ground to excavate does not match the estimated quantity stated. Please advise.

the bridge designers recalculated their quantity and came up with the original number again

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Ohio Department of Transportation Prebid Questions

Question Submitted: 7/9/2009

Question Number: 74

The plan notes related to mine void drilling and grouting shown on plan sheets 1154 thru 1158 are significantly different from the notes in the special provisions for mine stabilization. The scope of work required will vary significantly depending on which notes apply. Please clarify which notes take precedence for this project.

Question Submitted: 7/9/2009

Question Number: 75

Proposal Note 520 for fuel escalation does not include fuel related to the drilling required for mine grouting. Because this is a significant portion of the project scope, can fuel for drilling be added to PN 520?

The Department respectfully declines.

Question Submitted: 7/9/2009

Question Number: 76

For Bridge No. ATH-33-0236 L&R, the quantities for Item 509 – Epoxy Coated Reinforcing Steel, seem to be overstated. The quantities in the Estimated Quantities Chart do NOT correspond to the quantities in the Reinforcing Steel List. Please review and revise.

Please see addendum 4

Question Submitted: 7/9/2009

Question Number: 77

For Bridge No. ATH-33-0236 L&R, there is a note on plan sheet 1278 which states that the piles located at the rear and forward abutments are to be prebored through fill areas. It seems unclear as to what is considered a fill area for the purpose of these prebored holes. Are the fill areas considered to be the areas between existing elevation and the top of pile? Or, are the fill areas considered to be the areas in the soil borings labeled fill? Could the department please identify these areas in detail?

See the chart on plan sheet 1282

Question Submitted: 7/9/2009

Question Number: 78

The note on plan sheet 1154, section 2.2, states: Batter angles up to a maximum of 45 degrees may be required. The abandoned mine grouting summary shows some holes with batters much greater than 45 degrees (for example see plan sheet 1170). Can the location of those holes be changed to reduce the batter angles?

Plan sheet 1154 was deleted by Addendum No. 5.

Question Submitted: 7/9/2009

Question Number: 79

On Plan Page 1056, the note for Bid Reference # 312 Controller Unit, Type TS2/A1 with cabinet, Type TS2 specifies a proprietary brand "Eagle model M40 or M50" controller. However, the plans show that the intersection of SR 691 & SR 33 is an isolated intersection that is not interconnected to any other intersections or equipment, and therefore should not be proprietary. Will this specification be opened to allow other NEMA equipment manufacturers to provide equipment capable of operating this intersection and allow for fair competitive bidding? Additionally, which agency will maintain this intersection? If this is maintained by the ODOT District 10 or the Athens County, previous installations for these agencies typically have not specified NEMA TS2 cabinets in this area of the state. Instead, these agencies have previously used 170 style controllers and cabinets. Is a NEMA TS2 cabinet and controller the correct intended equipment?

The controller specification is correct. The signal will be maintained by the City of Nelsonville. Section 120-4 of the ODOT Traffic Engineering Manual specifies the procedure for a maintaining agency to get approval to use a specific brand if the majority of the agency's existing controllers are of the same brand. The request was found to be in compliance and was approved by the ODOT Office of Traffic Engineering.

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