

# Ohio Department of Transportation

## Prebid Questions

Project No. 050583

Sale Date - 12/21/2005

Question Submitted: 11/15/2005

Question Number: 1

Page 648/1092 shows the bore pits for the siphon pits located on either side of I-77, sheet 312/1092 shows a bore pit in the median of I-77. Which of these drawings are correct?

Reference number 64, excavation, includes 4,000 cy for undercuts. A separate bid item should be set up for this quantity since only 4,000 cy out of the plan quantity of 161,311 cy is undercut. This 4,000 cy is not a good sample of the remaining volume of material.

Is backfill material to be included with Ref 68, Excavation of subgrade? If so, what type of material is required?

What is reference number 69 to be used for?

What is the State turnaround time for item 206.06, Contractor designed chemically stabilized subgrade, after the contractor's submittal

Question Submitted: 11/18/2005

Question Number: 2

There is a requirement to provide Railroad insurance on this contract. ODOT normally provides the Railroad traffic information in the Proposal note however none was provided in PN159. Can ODOT provide the Railroad traffic information.

Also PN159 calls for the contractor to pay for any & all Railroad flagging required. While the amount of flagging on this project will be minimal, isn't the flagging cost normally paid by ODOT direct to the Railroad by force account? Should the cost of flagging on this project, if any, be paid by ODOT on a force account?

Question Submitted: 11/21/2005

Question Number: 3

My question is regarding ITEM SPECIAL - STRUCTURE, MISC.: MONITORING OF VIBRATIONS AND MONITORING OF ACOUSTICS and their quantities. Page 266 (General Summary) of the plans lists 25 each for both the monitoring of vibration and monitoring of acoustics. Is this to say that ODOT wants a seismograph at each location where a structural survey was performed? Typically on a project such as this, the monitoring can be accomplished with 4-6 seismographs which are re-located as necessary to ensure that vibrations and acoustics are always being monitored at the closest structures. We would normally supply this service on a per unit price per month (i.e. 4 units @ \$500.00/month/each or \$2,000.00 per month). To quote this as written, we would have to assume that a seismograph be in place at all 25 locations and that each seismograph would stay in place for the entire project. This would result in a quoted price of over \$240,000. Also, if the bid items remain as they are, this price could easily double because you are listing the monitoring of vibrations and monitoring of acoustics as separate items. There is no need for two separate bid items here. The seismographs that should be used will monitor both vibration and acoustics, therefore this could be combined to be one bid item.

I am not sure that it is possible to allow bids as I have explained above (per seismograph/per month). However, if it could be done this way, the cost savings to ODOT would be approximately \$150,000. I would recommend that the bid items be changed. If this is not possible, could ODOT give some clarity as to how many monitoring locations it thinks is necessary and for how long they would be needed?

Question Submitted: 11/21/2005

Question Number: 4

1. On sheet 413, D-1 shows 15" Type B Conduit, sheet 411 shows D-18 12" Conduit Type B. These are the same runs of pipe, which is correct?
2. Are there any City of Canton waterline fees? If so, can a copy of these fees be made part of an addendum. Also, who pays for these fees?
3. Sheet 318, D-3 shows 82' of 21" Conduit Type B, sheet 376 shows 82' of 24" pipe. Which diameter is correct?
4. Sheet 315, D-11 shows 48" Conduit Type B and sheet 411 D-19 is the same run. Quantities should be adjusted.
5. The description for Ref. 461, vehicle assistance, mentions the hours for this vehicle with operator is 24-7. This suggests this vehicle with operator needs to be on site 24-7. Is this the intent of this item?

Question Submitted: 11/21/2005

Question Number: 5

Item # 148 48" Conduit Type B shows a quantity of 300 FT. The 66 Ft listed on sheet 315 does not show up on sheet 312. Is this the same pipe listed as D-22 and D-8 from sheets 410 and 412? If so please adjust the bid quantity.

Question Submitted: 11/29/2005

Question Number: 6

There needs to be a bid item for Single Slope Concrete Barrier End Sections Type D. I count 11 Each.

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## Prebid Questions

Question Submitted: 11/29/2005

Question Number: 7

Addenda #1 added a plan note for Concrete Barrier Removed, As Per Plan, however, there is not a bid quantity in the proposal, how is the contractor to be paid for this item? Also, for reference #58, the general summary directs you to sheet 292, but there is no removal for PCB on this sheet. Please clarify.

Question Submitted: 11/30/2005

Question Number: 8

1) Will ODOT supply Soil Borings for proposed Noise Wall I located at the south end of the project?

Question Submitted: 11/30/2005

Question Number: 9

Ref. 89 & 90 Fence/Gate type CLT, As per plan, calls for fence/gate to be painted. Could we use a vinyl coated system in lieu of painting?

Question Submitted: 11/30/2005

Question Number: 10

We have reviewed the plan sheets (919-933) regarding the temp SBC bridge on West tuscarawas St & have the following detailed questions:

1. Is the contractor to supply all of the material listed on the estimated quantity tables on sheets 15/18 & 17/18 or is some of the material supplied by SBC? If SBC is supplying any material please identify what.
  2. On sheet 4/18 steps 12 & 13 are indicated to be done by SBC. Does that mean they will install all of the hanger material located below the truss or only physically move the ducts after the contractor installs the hangers?
  3. On sheet 5/18 none of these steps are shown as by SBC. If SBC is moving the ducts should their forces not be doing the work indicated in steps 4 & 5? If SBC only moves the ducts is it the contractors responsibility to assemble the permanent hangers & remove the temporary ones when no longer needed?
- Please clarify the above as there is a lot of labor involved and the exact division of work is not clear to us after studying the documents.

Question Submitted: 11/4/2005

Question Number: 11

1. Reference 44 Remove Misc Billboards and Ref. 440-447 Building Demolished have already been removed under another ODOT Project.
2. The excavation and embankment quantities for Tuscarawas St. were not carried to the general summary. Please add these quantities.
3. Cut and fill volumes are missing from sheet 549. Are these quantities included in the general summary?

Question Submitted: 11/8/2005

Question Number: 12

It was mentioned at the pre-bid conference that the "As Directed" Pavement Planing, surface course and tack coat items listed on sheets 62/1092 and 63/1093 would be performed. If this is the case, please modify these notes by removing the "as directed" note.

It would seem to make more sense if this resurfacing operation was performed on a separate project after this project is completed. The city streets could then be inspected and a quantity of resurfacing could be determined at that time.

If this resurfacing is to be performed, what is the traffic control during this operation? Also, many of the city streets are brick. Will the city of Canton want their brick streets paved over with asphalt?

Phase 2 of the project calls for the resurfacing of both the northbound and southbound lanes on I-77. Why are the southbound lanes being resurfaced when these lanes are going to be removed a month later?

How will the warranty be affected on the projects to the north and south of this project if the surface course of these projects are milled and resurfaced as a part of phase 6 of this project?

Please review the requirement of the Tuscarawas Street bridge being built in the same phases as the I-77 phases as listed in Phases 1, 2, and 3 of the phasing notes on sheet 69/1092. The amount of time required to perform the bridge work is much greater than the small amount of work being performed on the mainline in phases 1 and 2.

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## Ohio Department of Transportation Prebid Questions

Question Submitted: 12/1/2005

Question Number: 13

Cross sections for the retaining walls show a shaded section for an end area for unclassified excavation, as on sheet 378. Sheet 684 shows a detail indicating the unclassified excavation does not extend above the wall as indicated on sheet 378. Has the end area for unclassified excavation been deducted from the roadway excavation item as indicated on sheet 684?

Sheet 290 shows a pipe removed item to be "as per plan". What is APP about this pipe removed and where is the bid item for pipe removed as per plan?

Plan sheet 667 shows 8" DIP CL 53 pipe with mechanical joints and fittings at the ends of the Tuscarawas structure, these quantities are shown on sheet 668. However, this quantity of 164 LF is carried to page 290 under item 638- 8" DIP with push on joints. There is no bid item for 8" mechanical joints.

Sheet 111 shows sheet piling to be installed as required, by the contractor. Does sheet piling have to be installed at the stations shown on this sheet or does the contractor have to install sheeting only when needed? Can an alternate method be used in lieu of sheeting?

Please clarify the note on sheet 68 for the temporary sheeting requirements. What is the intent of the requirement for a HS-20 loading (2 foot of surcharge)? Why was the 2 foot of surcharge added to this?

Please provide borings along the proposed centerline sheeting to allow us to design this support system.

Question Submitted: 12/12/2005

Question Number: 14

What are the sizes of the underground storage tanks that are to be removed on this project?

Standard drawing RM-2.1 shows a handrail for steps with 3 risers or more. Do any of the locations of steps require a handrail?

The note on sheet 58/1092 for sanitary sewer and waterline testing mentions that the sanitary and storm sewers constructed on this project are to be televised. Do the storm lines need to be televised? This is a deceiving note since the title of this section mentions only sanitary and waterline not storm.

Question Submitted: 12/12/2005

Question Number: 15

Does reference number 703, added in addendum 2, include the granular embankment material?

Addendum 1 addressed question 9 by stating that the detour routes will be resurfaced as part of this contract. Addendum 2 answers question 18 and 19 with the detour routes will be resurfaced when directed by the engineer. Are these detour routes going to be resurfaced? A simple yes or no answer will suffice.

The answer to question 21 in addendum 2, states that the quantities for resurfacing the detour routes are listed on pages 62 and 63. Yes these quantities are listed, but these are just the summaries of a more detailed takeoff. Please provide the detail takeoff for this resurfacing operation, i.e. street by street with lengths and widths. A detailed takeoff will reveal that the quantities for this resurfacing operation is more than double of what is needed. The detour routes are used over and over with each detour, therefore, the streets need to be resurfaced only once, not three times. Please review these resurfacing quantities and adjust to a more realistic number. The bid cost for resurfacing is in excess of 3 million dollars when it should be less than 1 million dollars, this is an extremely large dollar amount to be non-performed.

Question Submitted: 12/12/2005

Question Number: 16

Please confirm the number of underground storage tanks that are to be removed under reference number 28. the plans indicate that there are 10 tanks, our takeoff indicates there are less than 10. How is the disposal of the liquid in these tanks going to be paid?

References 79 and 80 are redundant, only one of these bid items are needed. Both the acoustic and vibration monitoring is accomplished with the same piece of equipment. If one of these bid items is not deleted, will the state pay for both bid items if only one monitoring device is used to monitor both acoustic and vibration levels?

Question Submitted: 12/13/2005

Question Number: 17

The plan refers to Mabey Bridge for reference 566 ( Temporary Utility Bridge ). Will an as equal Prefab Bridge be allowed in lieu of the Mabey Bridge ? If an as equal is allowed would it only be accepted as a value engineer item ?

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## Ohio Department of Transportation Prebid Questions

Question Submitted: 12/13/2005

Question Number: 18

1. Addendum 2 again changes the resurfacing of detour routes to be performed when directed by the engineer. What phase and/or what year will we be directed to complete this work? Please provide a detailed takeoff, with quantities, supplying this information.
2. There are no pay items for temporary striping, casting adjustments, RPM's removed and replaced that are part of the work associated with detour routes. How will these items be paid for?
3. A portion of 13th street used on a detour is concrete. What work items are to be completed in this area?
4. Is it your intention to use 442 asphalt concrete surface 12.5mm type B(446) for the interim resurfacing of IR 77, detour routes, and for asphalt driveways? Shouldn't this material be 448 type 1 surface?

Question Submitted: 12/14/2005

Question Number: 19

There is a proposed inlet that needs to be installed at approximately station 82+75 on the existing off ramp V. How and when is this inlet and associated pipe runs to be installed since this ramp is to remain open until phase 5? This pipe run needs to be installed during the construction of Harrison Avenue, which will allow drainage of Harrison Avenue catch basins to the main trunk line down on I-77 and these phases on Harrison will take place prior to phase 5. Can this ramp be closed for a short period of time to allow the installation of this pipe outlet?

A similar situation occurs on pipe runs at the existing ramp U on ramp to I-77. How and when is the pipe run to be installed that crosses this ramp? Can the ramp be closed for a short period of time to install this pipe?

It appears that the 30" underdrain in the rock cut areas will be in rock since the plans indicate the under cut is only 24". Should there be a rock underdrain bid item added to the proposal?

Addendum 2 added (ref. 703) excavation of subgrade, APP. This item, according to the addendum note, includes the backfill of granular material. It appears that bid item 69 has included this backfill quantity. Please correct either the addendum note or the quantity on reference number 69.

There is insufficient boring information at the Tuscarawas sanitary boring location. Borings to the north of this proposed bore show the presence of limestone above the pipe run. Due to the irregular rock elevations in this area, it can not be determined where the limestone elevation is at the proposed bore. Are we to assume that we will not encounter any limestone in this bore run? Can the elevation of this bore be raised to avoid the possible limestone?

Question Submitted: 12/15/2005

Question Number: 20

Since your office will not provide a detailed quantity sheet for detours, and per addendum #3, answer #26 states that local streets/roads used for detours do not have RPM's. Does these mean that SR 297 (Raff Road), SR 172 (Tuscarawas Street), SR 43 (Cherry Ave), USR 30/62, and IR 77 will not be resurfaced under detour routes? Only City of Canton streets will be done?

Addendum #3, answer #27 says that Ref. #192 ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE B (446) will be used for interim resurfacing of IR 77, detour routes, and asphalt driveways. In this same addendum, under REVISED ITEMS:, Ref #192 has been changed to 448 ASPHALT CONCRETE SURFACE TYPE 1 PG64-22. Which material will be used?

Question Submitted: 12/17/2005

Question Number: 21

The pier on the 4th stree structure is shown to be built during phase 4, see page 118 for note. The footer for the columns are under the proposed temporary pavement. How are we to excavate, drive pile and construct the footers during this phase?

**Thank you for pointing out this error in the MOT phasing. An adjustment to the MOT phasing will be made early in the construction phase. If necessary, a change order will be issued. Your attention is also drawn to plan sheet 68 Alternate MOT Plans note.**

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## Ohio Department of Transportation Prebid Questions

Question Submitted: 12/2/2005

Question Number: 22

On plan page 835 the specification for the AIRPORT OBSTRUCTION LIGHT (bid ref. 291) calls for a Type L-864 Flashing red obstruction light, 20-40 FPM. We feel that this application should be a Type L-810 Steady-burning red obstruction light. We have installed in similar applications in the past. The flashing red obstruction lights are much more costly (\$2,500.00) than the steady-burning red lights (\$100.00). Please clarify what is wanted since the price difference for a quantity of 4 would be substantial.

Question Submitted: 12/2/2005

Question Number: 23

1) Since there are no calculations shown for the Pavement removal item, it is unclear if the intent is for the existing asphalt shoulders to be paid under reference 5 pavement removal or reference 64 excavation. Please Clarify.

Question Submitted: 12/2/2005

Question Number: 24

In regards to the resurfacing work to be completed on detour routes:

1. Is it your intention to resurface all local city streets and all state routes used for official detour routes?
2. Is it your intention to resurface detour streets more than once when used for multiple detours?
3. As per Addendum #1, is it your intention to use 442 asphalt concrete surface course 12.5mm type B (446) to resurface detour routes?
4. Please provide a general summary of quantities and calculations on how you derived at these quantities?

Question Submitted: 12/5/2005

Question Number: 25

Plan Sheet 874/1092; for Reference No. 509: Cofferdams, Cribbs and Sheeting, As Per Plan; lists the "As Per Plan" reference sheet number as G9/G11. Plan Sheet G9/G11 does not contain any pertinent plan note. Please indicate the Department's intent for this Reference number which will require some sheeting (?) left in place.

Question Submitted: 12/5/2005

Question Number: 26

Reference 188 is list as 448 asphalt concrete intermediate course type 1. Typical sections show this material as 1.75" intermediate course type 2. Which material will be used?

Question Submitted: 12/6/2005

Question Number: 27

Site visits have revealed that pipe runs D-3 and D-10 on sheet 315 have already been installed along with manholes at these locations, please adjust quantities. Also, please indicate what other work has been performed by the contract to the south of this project that is shown to be completed on this project.

Several city streets set up for detour routes overlap from one detour to the other. Quantities for resurfacing should be reduced for this redundancy.

Question Submitted: 12/6/2005

Question Number: 28

On sheet 42 it shows the typical sections of 13th street. It shows curb and gutter type 2 to be used. There is no bid item for curb and gutter.

On sheet 319 it shows curb, type 6 to go from station 72+00 to station 74+11. This 211 Ft is not accounted for in the bid quantity total as per sheet 287.

On sheet 509 and 510 it calls for 90 FT of Curb, type 2B to be placed. This would require item 305, 9" base to be placed there as well, but there is non quantity for base in this location per summary sheets 273 and 277.

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## Ohio Department of Transportation Prebid Questions

Question Submitted: 12/7/2005

Question Number: 29

Ref. 188 Plans call for type 2 - Proposal calls for type 1 which is correct?

Ref. 190 Bid quantity is 303 CY, plan page 272 shows 302.4 Cy but only shows an area of 518.44 SY, which at 1.75" calculates to 25.2 CY which is correct?

Ref. 192 is now 442 superpave, which means that a PG70-22 must be used, the note also states that this work needs to be performed prior to implementing detours, is the department going to waive Temperature Requirements per 401.06 so that this work can be completed and the detours placed so work can begin on the bridges as soon as possible. This item also included cubic yards for driveways, does the department really want polymer slag mixes in drives?

Addendum #1 also states that The virgin aggregate portion of the mixture shall be air cooled blast furnace slag and meet the requirements of 703.05, is this just the coarse aggregate or is it all the aggregate? Please clarify.

Question Submitted: 12/9/2005

Question Number: 30

Plan Sheet 57 note for Seeding Misc: Crown Vetch Mixture indicates the "seed mixture shall be crown vetch and shall conform to CMS 659.09 Native Grasses and Wildflowers." Is this item intended to use Mix 3C Crownvetch or Mix 4A Native Grass Mix?

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