

Ohio Department of Transportation

Prebid Questions

Project No. 091025

Sale Date - 7/29/2009

Question Submitted: 6/24/2009

Question Number: 1

The proposal for project 091025 has been available online for downloading, but the plan pages are not. Is this project still bidding 7/15/2009? If so, when will the plans be available?

The plans are out there now.

Question Submitted: 6/30/2009

Question Number: 2

There are approximately 27 locations in Part 1 where the existing fence is being removed for a width of 24' and a new 4' gate and 20' of fence is reinstalled. These areas are not shown on the drawings. Where are they located? As a contractor we cannot price these without knowing their location (clearing limits, MOT required and access to area).

The fence /gate locations are shown on the individual plan sheets where they are required. The locations are explained in the Power Service, As Per Plan note. They are for access to the power meters.

Question Submitted: 7/1/2009

Question Number: 3

Should a bid item for "plastic caution tape" be established? Plan sheet 14/207 indicates plastic orange warning tape above conduits. Also, is caution tape desired where duct cable only items are installed?

Plastic Caution Tape will not be required.

Question Submitted: 7/1/2009

Question Number: 4

Portions of the project causes concern for items requiring excavation where there is a presence of rock. Ex: This project requires the trench to be twice the depth of a typical project of this type. Please consider adding a bid item for rock excavation.

Question Submitted: 7/1/2009

Question Number: 5

The EBS File for ODOT Project #091025 does not match the proposal for the project. The proposal has 172 line items and the EBS File has a total of 183 line items. Many of the line items have different descriptions for same reference number (EXAMPLE - Ref. 154 is "WOOD POLE - 3 EACH" in the proposal and Ref. 154 is "RIGID OVERHEAD SIGN SUPPORT FOUNDATION, AS PER PLAN, DMS PEDESTAL - 13 EACH" in the EBS File). Will there be an addendum that changes all of these items? Will there be an addendum that reflects the change made in the 1 amendment that has been added to the EBS File? Will the proposal and EBS file be made to match? If not, which takes precedence over the other?

Question Submitted: 7/1/2009

Question Number: 6

The note for the CHANGEABLE MESSAGE SIGN, UNLIMITED MESSAGE, AS PER PLAN on Special Provision page 71 refers to "...the procurement and installation of this device as outlined in the latest revision of ODOT Supplemental Specification 977." ODOT internet site shows "the latest revision" Supplemental Specification 977 dated 4/17/2009. Plan sheet 1/207 shows Supplemental Specification 977 dated 10/18/2008. Which Supplemental Specification 977 date will be applicable to this project?

Question Submitted: 7/1/2009

Question Number: 7

Is there a specification for the poles to be used for the HARs? Should they be concrete or wood, and what size? Additionally, the HAR detail specifies rigid metal conduit. Should PVC be used to minimize potential for interference?

The specifications for the poles are found on p.74 of the Special provisions under "Antenna Assembly". The pole is a class C wood pole with an above ground installed height of 30 ft. The antenna cable is shielded and does not require non-metallic conduit.

Question Submitted: 7/1/2009

Question Number: 8

Are the UPS systems for the field equipment cabinets to be furnished and installed by ODOT or the contractor? The typical field cabinet schematics show by ODOT, but the special provisions for the HARs indicate that this is by the contractor.

Question Submitted: 7/1/2009

Question Number: 9

Several of the median barrier overhead sign support foundations are in areas where the existing wall contains a lighting circuit. No provisions are made for the removal and reinstallation of the distribution cable or connector kits. Please add these items. Additionally, is the lighting in these areas to be maintained while the section of barrier wall is being worked on? If so, how?

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Ohio Department of Transportation Prebid Questions

Question Submitted: 7/1/2009

Question Number: 10

Several of the new DMS trusses are proposed to be installed in the same location as an existing truss with static signs. Are the existing signs to be maintained while the existing truss is removed, the foundation is installed, and the new truss is fabricated? If so, how? Furthermore, if the new trusses are taking the place of the existing, the existing foundations would need to be removed in their entirety, which may or may not be practical considering some of the tight working spaces. Is this the intent, or can the new trusses be relocated?

Remove the existing signs and trusses. Do not maintain the existing signs. The new trusses can be relocated if it is not practical to place the new truss in the same location, as permitted by the plan notes.

Question Submitted: 7/1/2009

Question Number: 11

Please provide additional information regarding the 4" conduit to be provided by ODOT. Is it PVC or HDPE? Continuous coil or sticks? 10 foot or 20 foot sticks? With standard bell or deep bell?

Question Submitted: 7/1/2009

Question Number: 12

On Sheets 57, 65, & 174 of Part 1 there is some confusion with DMS 071001. The quantities on Sheet 57 call the foundations out as 1 - Concrete Median Barrier Foundation and 2 - ROW Foundations. Sheet 65 & 174 show 4 - ROW Foundations. Which is Correct? Also Sheet 65 has a note that states the sign foundation is included in the new barrier wall, is this correct? Pg 174 shows the Concrete Barrier Single Slope, Type D separate from the foundations, Which is correct here?

Question Submitted: 7/10/2009

Question Number: 13

Due to the massive area this project incorporates, there are going to be locations that rock is encountered. Since there are no boring logs please provide a bid item for rock excavation.

Please see addendum

Question Submitted: 7/17/2009

Question Number: 14

With this being a 2 year project with so many areas over both Districts and the requirements for a 5 year warranty on certain items will the contractor be able to receive Partial Acceptance as per 109.11 for areas on the project as they finish them?

This warranty period begins after the Successful completion of the Stand-alone and 30-day Subsystem Testing for a Project Phase. Conditional Acceptance is granted after successful completion of the Stand-alone testing. The Warranty Period shall begin following the successful completion and Testing of each Phase as identified in Section 2.18 Project Construction Sequence on pages 38-40 of the Special Provisions.

Question Submitted: 7/17/2009

Question Number: 15

The Plans call for the Pull Boxes to be drained as per HL-30.11. This detail calls out for the drains to be connected into the underdrain system or as an independent drain. The detail also states that the drains will be installed as specified or as directed by the Engineer. If the Pull Boxes are required to be drained into the existing underdrains by the Engineer how will the pavement removal and replacement be paid? Will they be required to drain into the Underdrain?

The drains are to be considered as an independent drain. The purpose was to not have standing water in the base of the pull boxes. No they are not required to drain in to the underdrain.

Question Submitted: 7/17/2009

Question Number: 16

We respectfully request your review of Addendum 3 as it relates to the vehicle detection unit. The General Requirements document under 2.9.1.3 identifies the RTMS G4, Wavetronix Smart Sensor HD or equivalent. Both of these units are current technology and we believe would serve best interest of ODOT. Both the Smart Sensor HD and the RTMS G4 have a range of 250' and Smart Sensor HD 10 lanes and the RTMS G4 up to 12 lanes. By maintaining a 10 minimum lane requirement both the Smart Sensor HD and RTMS G4 can meet this requirement. By reducing the requirement to 8 lanes will allow older technology to be supplied including the ISS/EIS RTMS X3 and Wavetronix 105, contrary to other portions of the spec which call for current technology and the availability of replacement parts and support for a number of years. Would ODOT consider this change?

ODOT does not want to change the specifications.

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Ohio Department of Transportation

Prebid Questions

Question Submitted: 7/2/2009

Question Number: 17

There are conflicting notes as to the method of measurement for Distribution and Duct Cable on this project. The method of measurement for Distribution and Duct Cable detailed in the Project 091025 Special Provisions (pages 65 & 66) describe the same method as in the ODOT Construction and Material Specifications ("...will be measured to the center of foundation, pull box, junction box or power service, plus an allowance of 5 feet on each end except for a power service where the allowance will be 10 feet"). The method of measurement for Distribution and Duct Cable detailed in the Electrical Note shown on plan sheets 46/207 and 41/154 states that Distribution and Duct Cable will be measured to the center of foundation, pull box, junction box or power service, plus 5 feet at each pull box, 10 feet at all terminations and 35 feet at each power service (the "...35 feet at each power service" note is only on plan sheet 46/207). The sub-summary sheets seem to be following this method of measurement.

Also two other items of concern that have to do with the method of measurement: 1. The Special Provisions have not listed the "1-1/2" DUCT CABLE WITH FOUR NO. 4 AWG 5000 VOLT CABLES" with the other Duct Cables nor have they listed the "NO. 6 AWG 5000 VOLT, NO. 2 AWG 5000 VOLT, NO. 4 AWG 5000 VOLT and NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLES" with the other Distribution Cables. Was this an oversight or do different cables get measured differently? 2. The Electrical Note shown on plan sheets 46/207 and 41/154 also states "the installation of Distribution Cable and Duct Cable will be incidental to jacking/boring conduit and trench items of work". What is the purpose of this way of measuring? Will the method of measurement be clarified and be consistent for all types of cable?

Question Submitted: 7/2/2009

Question Number: 18

There is a HAR currently located at the ODOT District 12 headquarters that is not identified in the plans. Is any work to be done to this HAR as part of this project?

No

Question Submitted: 7/2/2009

Question Number: 19

Section GG page 18/29 of Specification 977 requires an auxiliary control panel that will provide a secondary interface panel, and a connection for a laptop to establish local control. Would you accept just the laptop connection as it would perform the same function as the auxiliary control panel. Eliminating the auxiliary control panel would save ODOT money and not reduce functionality, since the laptop connection and the laptop would serve the same purpose. Thank you

Question Submitted: 7/2/2009

Question Number: 20

The specification for the Vehicle Detection Unit (B/R 94, B/R 95, B/R 162 and B/R 163) as described on pages 93, 94, 95, 98, 99 and 100 in the special provisions are written around a sole source, proprietary item. There are detection units on the market that are capable of performing the detection requirements of the project, but do not meet the specification as written. Some areas of concern are: The specification requires a detector with "12 discrete detection zones" (pages 94 & 98). 8 detection zones is more common. The specification requires a detector to operate on 6 watts (page 94 & 99). Other sensors may use up to 8 watts. The specified area coverage with an "elevation beam width of 45 degrees, azimuth beam width of 15 degrees and range of 10 to 250 feet" (page 95 & 99). Other sensors may vary from this, but will provide accurate detection coverage as shown in the plans. We are therefore requesting an addendum be issued that would open up the specification to allow for competitive bids on these items.

Question Submitted: 7/20/2009

Question Number: 21

Is there a detail for the transformer pad, concrete?

There is no detail for this item. The purpose of this item is similar to the controller work pad as stated on Sheet 15 Note 2 of the plan set. To provide a work pad for the Equipment Stand for the power service locations as shown see Detail 7 on Sheet 18.

Question Submitted: 7/22/2009

Question Number: 22

How many ARRA signs are required and will there be a line item for these signs as done on other projects?

Due to the fact this project is spread over numerous location in 7 counties, ODOT has determined that it does not make sense to install ARRA signing on this specific project.

Question Submitted: 7/23/2009

Question Number: 23

In the plans item 630E74500 there are 21 Overhead Sign Support Misc DMS Pedestal structures which specify the height of the Post and Width of the span to be determined by the DMS but the plans do not show the Width or height of the DMS. If you could please tell me the Dimensions of the DMS sign. Another questions is on the Bid list items it states there are 10 Overhead Sign Support 81' to Maximum 150' and 10 Overhead Sign Support Maximum 80' but in the plans there are 12 Overhead Sign Support 81' to Maximum 150' and 8 Overhead Sign Support Maximum 80' please advise.

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Ohio Department of Transportation

Prebid Questions

Question Submitted: 7/23/2009

Question Number: 24

A portion of the conduit for jack/drill under pavement (note on plan page 44/207) is provided by ODOT. Addendum #6 identified it as PVC. Is this conduit conventional PVC using only a glued joint or is it conduit specifically designed for jacking using a mechanical connection? There is a drastic difference between the two types. At minimum please identify the manufacturer and part number of the material being supplied.

The pipe being jacked or drilled under pavement is schedule 80 pipe capable of being jacked. Please bid as per plan.

Question Submitted: 7/24/2009

Question Number: 25

Referencing the conduit that ODOT is supplying for bid items 51 and 138, if this conduit is not "specifically" made for directional drilling, the joints will pull apart under the roadway during installation. Is ODOT going to except responsibility for the extra time and conduit that it takes to complete a road crossing when this occurs? If the conduit is jacked, it will break and shatter from the force of the machine, and the specification reads that you are not allowed to use a bucket or blade used for earthwork. Please consider using sch 80 HDPE conduit in lieu of the sch 80 PVC conduit. HDPE conduit is manufactured continuous with no joints to pull apart and has the same wall thickness as sch 80 pvc, which makes it a far superior product for boring.

As per Section 625.14 Jacking and Boring in the 2008 Ohio CMS, Schedule 80 PVC pipe can be used for jacking and boring.

Question Submitted: 7/24/2009

Question Number: 26

On Sheet 90 the quantities for the barrier wall items and foundations were not picked up in the ITS sub summary and not carried to the final quantities in the bid.

At this location there will be a foundation placed in the median barrier under ODOT Project PID #22222. The profile for this device (DMS 077005) states that there will be an existing foundation that the contractor will need to match the bolt pattern with.

Question Submitted: 7/24/2009

Question Number: 27

On Sheet 142 the quantities for 2 1/2" Duct cable with 3- 4/O AWG and 295' of Conduit Jacked or Drilled is missing from the ITS sub summary and not carried to the final quantities in the bid. Please Verify.

Question Submitted: 7/24/2009

Question Number: 28

On the ITS Sub summary plan sheets the conduit misc. 3" is called out as Schedule 40 conduit. The plan general notes under Conduit: jack and drill require Schedule 80, which is correct?

Question Submitted: 7/24/2009

Question Number: 29

On Sheet 144 32' of 2" conduit is missing in the ITS subsummary and not carried to the final quantities in the bid. Please Verify

Question Submitted: 7/24/2009

Question Number: 30

On Sheet 152 Detail A there is some confusion in the ramp area. Shouldn't the duct under the road be jacked or drilled and the duct on the side of the ramp trenched? Are these quantities correct?

Question Submitted: 7/24/2009

Question Number: 31

On Sheet 156 you have 3 runs of 3" conduit; 261' 3" Sch 40, 170' 3" Sch 80, and 153' 3" Sch 80 but only have a plan quantity for 3" Sch 40. Please Advise?

The 261' is in a trench so is already included in the 3" SCH. 40 quantity. The 170' and 153' are being bored so are included in the CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, AS PER PLAN, SCHEDULE 80.

Question Submitted: 7/24/2009

Question Number: 32

On Sheet 157 the guardrail quantities were not carried over to the ITS subsummary and are missing from the final quantities in the bid. Please Advise.

Question Submitted: 7/24/2009

Question Number: 33

Where are the guardrail items located on Sheet 161?

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Ohio Department of Transportation Prebid Questions

Question Submitted: 7/24/2009

Question Number: 34

On Sheet 166 guardrail quantities are shown but missing in the ITS sub summary and the final quantities of the bid. Please advise.

Question Submitted: 7/24/2009

Question Number: 35

On Sheet 168 shouldn't the guardrail be extended to protect the CCTV device and the motorists?

Device is intended to be placed outside the of clear zone, therefore guardrail is not required.

Question Submitted: 7/24/2009

Question Number: 36

On Sheet 171 please verify quantity of Distribution Cable No. 8 AWG 5000V.

Question Submitted: 7/24/2009

Question Number: 37

In response to an answered pre bid question in regards to the pull boxes, are they required to have drains?

Yes, they are required to have drains.

Question Submitted: 7/24/2009

Question Number: 38

Part 2, Please verify quantity of trenching 48" deep on Sheet 54

Question Submitted: 7/24/2009

Question Number: 39

Part 2, On Sheet 81 & 83 the ITS sub summary is missing quantities for 2" conduit 725.04 and these are not carried into the quantities of the bid. Please verify?

Question Submitted: 7/24/2009

Question Number: 40

Part 2, On Sheet 87 How does the removal of the existing DMS get paid for?

Question Submitted: 7/24/2009

Question Number: 41

Part 2, Please verify Conduit Jacked or Drilled on Sheet 117

Question Submitted: 7/24/2009

Question Number: 42

Part 2, On Sheet 117 there is 382 LF of 3" Conduit 725.04. This conduit is attached to a Structure. How is the cost for attaching this to the Structure Paid for?

Question Submitted: 7/24/2009

Question Number: 43

Part 2, On Sheet 121 the quantity of 2" Conduit 725.04 is missing from the ITS Sub Summary and not carried into the quantities of the bid. Please Advise.

Question Submitted: 7/24/2009

Question Number: 44

Part 2, On Sheet 125 where is the 90' of concrete barrier wall removed?

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Ohio Department of Transportation

Prebid Questions

Question Submitted: 7/3/2009

Question Number: 45

There are over 100 36" diameter sign foundations around 30' in depth on this project with no boring information. Is this information available? I realize there is a pay item for Misc.: Foundation Test Hole for when we encounter obstructions while drilling but without boring information we cannot determine if we will have problems with cave-ins on the sign foundations or productions for drilling since we do not know the type of materials that we will encounter.

This situation is a Category 2 Site Condition in which the contractor is required to exercise due diligence in the research of the soil strata conditions in the absence of site specific soil borings. No site specific soil borings were performed for this project. Both District 4 and District 12 maintain historical plan archives. These archives contain soil information from projects throughout both Districts. This record information is available for review during normal business hours.

Question Submitted: 7/3/2009

Question Number: 46

On Sheet 43 of Part 1 of the drawings under the vehicle detector pole foundation details it calls out for temporary casing pipe in the foundation. Under 632.14 this is only required for cave-in situations. Which is correct?

Question Submitted: 7/3/2009

Question Number: 47

In the general notes it states that information and the description of work pertaining to item 625E29700 Trench, Misc.: Remove and Replace Class C Rock will be shown in the special provisions. This information is missing from this location. Is it in another location? What is the description of this line item?

This specificatin is on page 115 of the Special Provisions.

Question Submitted: 7/6/2009

Question Number: 48

Please advise ref 36 thur 48 part 1 and ref 117 thur 128 for both distribution cable and cable in duct calls for 5000 volt rating. In the Ohio Department of Transportation Construction and Material Specifications 2008 section 725.02, the second paragraph calls for non-shielded wire or cable rated 5000 volts (2400 volts working under the 2005 NEC) is single conductor, stranded copper with chemically cross-linked polyethylene insulation, nonjacketd, meets the rrequirements of ICEA S-96-659/NEMA WC71 and of UL Type MV-90 dry. Does the cable in the references listed above need to meet the departments 725.02 wire and cable specifications and be listed as a approved manufacture on the departments qualified products listing? There are many constructions of 5000 volt cable available.

Items on ODOT's Qualified Products List (QPL) are pre-approved for that specification. Items not on the QPL can be utilized on the project as long as they meet the project specifications. The contractor will be responsible for submitting documentation that the supplied item meets the project specifications.

Question Submitted: 7/6/2009

Question Number: 49

Due to the fact that this project was not included in the department's standard letting pamphlet, contractor's were not readily made aware that this project was bidding on the advertised letting date in a timely manner. Due to the complex nature of this project, and the major bidding effort required by the contractor to submit a professional and competitive bid to the State of Ohio, would the Department consider a bid delay on this project?

This has been considered by both the Office of Traffic Engineering and our District 12 Construction staff. The consensus of the above was that the sale date should be held at this time. The project was advertised on 6/17/2009. With the 7/15/2009 sale date, the bidders have 4 weeks to prepare their bids.

Question Submitted: 7/6/2009

Question Number: 50

The detail for the concrete barrier truss foundations (p. 39/207) shows the length of the foundation section to be 10'. However, the center to center dimension of the columns is 7'6", plus 1'6" to each side overall for the foundation section makes the actual length 10'6". If this is the intent, please modify the detail.

Question Submitted: 7/6/2009

Question Number: 51

The installation of the concrete barrier truss foundations and the adjacent barrier wall taper sections will require longer lane or shoulder closures than the permitted lane closures allow. The work cannot be effectively completed using nightly lane closures. A longer term temporary lane/shoulder closure (2 weeks or less for each foundation) using portable concrete barrier and temporary work zone pavement markings would be more appropriate to allow the work to be completed properly, and to ensure the safety of traffic and the contractor. To complete this work 10 feet at a time, as the note on page 44 suggests would not be feasible or effective, and would not provide the maximum safety for traffic or the contractor. We respectfully request that an MOT plan be provided for these areas that includes PCB, temporary work zone pavement markings, signs, replacement signs, drums, etc., and quantities in the proposal for the same. Please keep in mind that a 12' wide working area would be needed between the existing concrete barrier and the PCB to allow equipment and concrete truck access.

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Ohio Department of Transportation

Prebid Questions

Question Submitted: 7/6/2009

Question Number: 52

There seems to be a discrepancy on page 51 of 55 for bid reference 0040 - Luminaire, Decorative, APP. Under the plan notes, it states that the luminaires shall be a 175 Watt Metal Halide lamp source. However the Luminaire Schedule chart indicates that the luminaires shall be 150 High Pressure Sodium. Can you clarify the correct lamp source required for this project? Thanks

Question Submitted: 7/6/2009

Question Number: 53

Will the Highway Advisory Radio signs be furnished by ODOT or the contractor, for reference numbers 23 and 109? The description is detailed as Sign Erected, Extrusheet.

Question Submitted: 7/7/2009

Question Number: 54

Reference numbers 16 & 107 Barrier Transitions. Are these items for labor and formwork necessary to transition from one type of barrier to another? All material will be included with the Type B APP. Part 1 sheet 44, there is a note under Concrete median barrier replacement that states - removing and replacement is limited to 10 feet - This is not feasible when replacing 40 foot sign transitions, please advise.

The bidder is correct that the quantities in the plans have been set up to pay for 80 LF total (40 LF each side) of Type B barrier to cover each side of the barrier transition. Additionally, each transition section includes an each item to cover the additional labor/formwork necessary for the transition work. The 10' barrier replacement issue has been addressed in an addendum.

Question Submitted: 7/8/2009

Question Number: 55

Newer generation microwave detectors now offer several enhancements over discontinued legacy detectors currently specified on this project. Is ODOT interested in modifying the detector requirements to include a requirement that the detectors be capable of 10 to 12 lanes of detection at a range of up to 250 feet to ensure that the latest generation microwave detectors are provided on this project?

The bidder is directed to one of the contract addenda where changes were made to the vehicle detection unit specifications. It should be noted that the project specifications are minimum requirements.

Question Submitted: 7/8/2009

Question Number: 56

Local Camera Control Units are required to have an AC receptacle to power a local test monitor. Do the AC receptacles need to be an integral part of the LCCUs or will a separate AC outlet in close proximity to them suffice?

The AC receptacle can be a convenience outlet in the cabinet and does not need to be an integral part of the local camera control unit.

Question Submitted: 7/8/2009

Question Number: 57

On sheet 89 of Part 1 there is no quantity brought forward to the summary of pay items for the Conduit Misc.: Jacked or Drilled, as per plan. On sheet 90 of Part 1 there are no quantities brought forward to the summary of pay items for the barrier wall items and the barrier wall foundation is missing also. Please advise or correct pay items.

Question Submitted: 7/8/2009

Question Number: 58

Specs are very unclear as to warranty timeframes. A 5 year warranty is discussed for most items. When does this period begin? Does an individual device begin its warranty period upon "conditional acceptance" (what exactly is "conditional acceptance"?). Upon acceptance of a particular phase for which it is a part? Upon final acceptance of the project? This is a HUGE item for contractors and vendor alike and deserves further clarity. Bond costs will be enormous if device warranty 5 year period does not start for any device until final acceptance of the project. Material costs will also be drastically inflated to cover the possibility of replacement parts for a full period of time a device may be required to operate as intended PLUS 5 years.

Question Submitted: 7/8/2009

Question Number: 59

For the 725.05 conduit items, is 725.052, Polyethylene conduit acceptable, or will 725.051, PVC conduit be required?

Question Submitted: 7/8/2009

Question Number: 60

Due to the fact that there are several pending prebid questions, and the addenda list shows that there are 4 addenda, but only 1 is available to view, we respectfully request that the bid date for this project be delayed.

Addenda 2,3 and 4 are now available. Addenda 5 will be available later today. At this point we intend to keep the current sale date.

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Ohio Department of Transportation Prebid Questions

Question Submitted: 7/9/2009

Question Number: 61

Ref.56 Conduit, Misc.: Existing conduit repaired. Is this conduit located on or off the bridge? If it is on the bridge, please provide a detail on how ODOT would like this repaired. Please provide a detail and manufacturer for the alternate concrete camera pole.

Ref 55-Conduit, Misc.: Existing Conduit Repair pay item: Please refer to the General Note on sheet 44/207. This is a contingency quantity. There are only a few locations within the project that utilizes existing conduit. On Plan Sheet 142 conduit exists in both directional parapet walls. The repair (if necessary) of this conduit would be repaired in order to make the existing conduit functional. All repair work would need to meet general ODOT provisions for conduit work and any necessary concrete parapet wall repairs. Concrete Pole - There is no detail provided for this pole type. The Special Provisions Page 89 outline the requirements for this pole.

Question Submitted: 7/9/2009

Question Number: 62

Section 2.9.1.3 on page 23 of the special provisions requires the VDU's to be "...the RTMS radar sensor (G4), Wavetronix Smartsensor HD or equivalent." The RTMS G4 and Wavetronix Smartsensor HD are not equivalent sensors. The Wavetronix Smartsensor H105 is the equivalent Wavetronix product for this application.

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