



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
PO BOX 778
DOVER, DELAWARE 19903

JACK MARKELL
GOVERNOR

SHAILEN BHATT
SECRETARY

VIA OVERNIGHT DELIVERY

(302) 760-2030
FAX (302) 739-2254

May 24, 2012

Contract No. DOT1217-TRAFFMAINT
EMERGENCY HIGHWAY ITS AND TRAFFIC MAINTENANCE
Statewide

Ladies and Gentlemen:

Enclosed is Addendum No. 3 for the referenced contract consisting of the following:

1. Nine (9) pages, Questions and Answers, revised, to be substituted for the pages issued in Addendum No. 2.
2. One (1) sheet, Construction Plans, sheet 42, revised, to be substituted for the same sheet in the Plan Set.

Please note the revisions listed above and submit your bid based upon this information.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott S. Gottfried".

Scott S. Gottfried
Competitively Bid Contracts Coordinator
:ssg
Enclosure



Delaware Department
of Transportation

**CONTRACT DOT1217-TRAFFMAINT
EMERGENCY HIGHWAY ITS AND TRAFFIC MAINTENANCE
STATEWIDE**

QUESTIONS AND ANSWERS

May 24, 2012

NOTE:

In addition to new questions and answers since Addendum No. 2, a response has been issued for the following previous question:

2

| | Question | Answer |
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| 11 | Does this project require ATSSA certified traffic control supervisor? Does certs have to be included in the bid as other projects?" | No. |
| 10 | No bid item for night work for blacktop or concrete to open plant at night? Will this be negotiated later?" | That is correct. If night work is required, payment will be based on a negotiated price for the surcharge. Negotiated prices will be the preferred method of establishing payment for new items added to the contracts. Force Account payment, per Standard Specification 109.04, may be utilized if negotiated prices prove to be unsuccessful. |
| 9 | Can contractor bill on work completed on project that is held up by Del-Dot? | Yes, you can bill for complete work. |

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May 17, 2012

| | Question | Answer |
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| 8 | Please verify under which item # we are to be compensated for installation of pole or base mounted signal cabinet. | The installation of a signal cabinet is typically performed by DeIDOT personnel; therefore, the corresponding items have been intentionally omitted from both contracts. If the installation of a signal cabinet is required per DeIDOT’s discretion or based on the approved traffic plans that supplement each work order, then negotiated prices will be established for Item 747504 – Installation or Removal of Pole or Post Mounted Cabinet (EA) and Item 747505 – Installation or Removal of Base or Pad Mounted Cabinet. Negotiated prices will be the preferred method of establishing payment for new items added to the contracts. Force Account payment, per Standard Specification 109.04, may be utilized if negotiated prices prove to be unsuccessful. |
| 7 | Item #732004 Topsoil (ton) and Item #736001 Sodding..... There are no details or explanation as to what these items will include/encompass that we can locate in our bid documents. Please advise. | See Sections 732 and 736, respectively, of the Standard Specifications. |
| 6 | In the specification for furnish and install wire (items 746906 746922) page 108 of DOT1209,; third paragraph; “Additional cables shall be left and arranged in neat and orderly manner as noted: 1. When pulled through junction wells, 6 feet of copper cable, supported on cable rack assemblies”; please clarify or offer detail on what type of cables this refers to and what type and size of cable racks should be utilized in what size junction well. | Cable racks are not required if the cable slack can be neatly arranged and laced with cable ties. |

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| 5 | <p>In the specification for furnish and install wire (items 746906 746922) page 108 of DOT1209, the second paragraph states “underground cable runs shall be started at one terminal point and shall be continuous without splices to the final terminal point except for “home run cable” to “loop detector wire”. Opticom cable shall not be spliced in any application. Further down to the last category “splicing”, we are given details on how to splice certain cables. This specification does not clearly explain what types of cable can be spliced; and when. Highway lighting circuits and the feeders to and from service cabinets often take long and complicated routes to service lights. This specification leaves contractors vulnerable to an interpretation that could differ greatly between inspectors and engineers. Also, please note that this exact specification is often utilized in project bids outside the Traffic Section, where interpretation is almost never that of what was truly intended by the writers of this specification. This particular spec needs to be rewritten; not only to clarify what type of wire is desired (question pending form pre bid meeting of 4-26-12), but to clarify that the electrical lighting and fused service feeders will almost always have to be spliced.</p> | <p>With the exception of loop detector cables, DeIDOT does not intend to permit underground splicing under either contract. Roadway lighting cables and pedestrian signal/pushbutton cables are typically spliced in above-ground transformer bases and electrical service cables should not be spliced between the above-ground service pedestals and the corresponding cabinets/disconnects. If splicing cables in an underground location (e.g., inside a junction well) is required per DeIDOT’s discretion or based on the approved traffic plans that supplement each work order, then negotiated prices will be established for Item 746779 – Splicing of Electrical Cable, Underground (EA). Negotiated prices will be the preferred method of establishing payment for new items added to the contracts. Force Account payment, per Standard Specification 109.04, may be utilized if negotiated prices prove to be unsuccessful.</p> |
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| 4 | <p>In both sets of specifications Project Notes section 2D Crew Composition states “Crews for aerial work must have a Journeyman Electrician as the foreman. Effective July 1, 2012, the Board of Electrical Examiners revised definition of a Journeyman Electrician is “"Journeyman electrician" shall mean a person who is qualified and skilled to perform electrical work and who has met the requirements of § 1408 of this title to be licensed as a journeyman electrician.” The new requirements to be considered a “Journeyman” (by the Board of Electrical examiners definition) will be “5) For licensure as a journeyman electrician shall: a. Be at least 20 years of age. b. Have successfully completed an apprenticeship program approved by the Board. c. Have over 8,000 hours of full-time experience performing electrical work under the supervision of a licensed master electrician, master electrician special, limited electrician, or limited electrician special. d. Any person who meets the requirement of paragraph (a)(5)c. of this section as of June 30, 2012, may have the requirements of paragraph (a)(5)b. of this section and the examination requirement of paragraph (a)(6) of this section waived by the Board. Journeypersons, effective July 1, 2012, must apply and be approved and licensed by the Board of Electrical Examiners. Please verify the use of “Journeyman”/Journeyman” and whether its new definition by our State’s new standards is applicable and what was intended in this portion of the specification, as the “and/or” exception for the crew foreman that is not aerial does not apply to the aerial foreman requirement.</p> | <p>The Contractor Requirements for both contracts are consistent with DeIDOT’s current contract, 29-500-85.01, and DeIDOT intends to comply with the DE Code, including all adopted amendments and regulations currently in effect by state law. As a result of the enactment of House Bill 180, anyone providing electrical services in Delaware must hold a Delaware professional license as an electrician starting June 30, 2012. After that date, it will be illegal for unlicensed persons to provide electrical services.</p> |
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| 3 | <p>In both sets of specifications in Project Notes section 2A says the contractor will provide a Mater Electrician Special. The definition of such Chapter 14 of Title 24 is “Master electrician special” shall mean a person, licensed by the Board, to plan, estimate, layout, perform or supervise the installation, erection or repair of any electrical conductor, molding, duct, raceway, conduit, machinery, apparatus, device or fixture for any 1 of the following purposes: elevators, swimming pools, electric signs, air conditioning, heating, refrigeration and oil burners, and overhead and underground primary distribution systems.” This definition is included in the revised rules and regulations of the Board of Electrical Examiners that will take effect July, 1, 2012. Please verify that “master electrician special” is the desired license for the contracts.</p> | <p>The Contractor Requirements for both contracts are consistent with DeIDOT’s current contract, 29-500-85.01, and DeIDOT intends to comply with the DE Code, including all adopted amendments and regulations currently in effect by state law.</p> |
| 2 | <p>The hdw specs call for a cast nipple on the dwg’s but the diagram shows tri-stud. Reference typical hardware drawing on page 42.</p> | <p>See Addendum 3 with revised notes specifying tri-stud adapter</p> |

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| 1 | <p>Are there signal breakouts or configurations available. Item# 0910 – is this to include housing, led & hdw; 0930 – is this led module only ; 1040- is this led & housing only; 1050- is this led module only</p> | <p>No; signal head breakouts will not be provided. The price differential for arrow and circular shaped LED signal modules of different colors is generally considered nominal for the comprehensive furnish and install items for signal head sections (i.e., Items 746929, 746930, 746932, and 746933), which also include furnishing the traffic signal housing and associated hardware and the specified installation type (i.e., rigid or span mounting). For Contract 1209, the relatively small anticipated quantities for Items 746931 and 746934 should not significantly alter the total bid. For Contract 1217, the need for a weighted average to establish the unit cost for each furnish only item (i.e., Items 746943 – 746946) is at the bidders’ discretion.</p> <ul style="list-style-type: none"> • Line No. 0910 – Item 746929 – Yes; this item includes the LED vehicular signal indication module, signal housing, and associated hardware for one, single signal section • Line No. 0930 – Item 746931 – Yes; this item is limited to only the LED vehicular signal indication module • Line No. 1040 – Item 746943 – Yes; this “furnish only” item includes the LED vehicular signal indication module, signal housing, and associated hardware for one, single signal section • Line No. 1050 – Item 746944 – Yes; this “furnish only” item is limited to only the LED vehicular signal indication module |
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PRE-BID QUESTIONS AND ANSWERS

April 26, 2012

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| 8 | <p>“On the junction wells, install bonding on existing junction wells, is there -- you come up with a method of how it's supposed to be done? Cast-iron, it's almost impossible to drill. Does anybody know that procedure, how it's done?”</p> | <p>One of DeIDOT’s current traffic contractors has completed this work for several roadway lighting projects in accordance with DeIDOT Standard Construction Detail No. T-2 (2011) – Junction Well, Grounding & Bonding for Steel Frames & Lids.</p> |
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| 7 | <p>“Same item, 747513, "Lighting Control and Distribution Enclosure," it's not stated what amperage you want that to be. The main breaker. 100? 200?”</p> | <p>See addendum with revised item description and special provision. DeIDOT generally installs intersection lighting under this contract, not interchange lighting; therefore, enclosures with 100 amperage main breakers are anticipated. If enclosures with 200 amperage main breakers are required per DeIDOT’s discretion, then payment will be based on a negotiated price for an alternate enclosure. Negotiated prices will be the preferred method of establishing payment for new items added to the contracts. Force Account payment, per Standard Specification 109.04, may be utilized if negotiated prices prove to be unsuccessful.</p> |
| 6 | <p>“Item 746925, "Furnish & Install Embedded Metered Service Pedestal," is this one approved by Delmarva Power? My main reason, your detail shows that switch, that bypass switch. I know Delmarva Power was an area that won't allow that.”</p> | <p>DeIDOT anticipates having approval from Delmarva for the new electrical service detail prior to these contracts being executed. If Delmarva does not approve this detail, then a revised detail will be provided and revised prices will be negotiated. Force Account payment, per Standard Specification 109.04, may be utilized if negotiated prices prove to be unsuccessful.</p> |
| 5 | <p>“While you're clarifying that, 746914, furnish and install No. 6 stranded solid ground. Stranded solid ground. I don't know what you want. And is it bare? It doesn't say that word, but I'm not too sure whether you want USE, bare.”</p> | <p>See addendum with corrected item description and special provision</p> |
| 4 | <p>“About your wire item, specifically the No. 2, No. 4, your item reads THWN. Your specification says XLPUSERHW. Which one do we want?”</p> | <p>See addendum with corrected item descriptions and special provisions</p> |

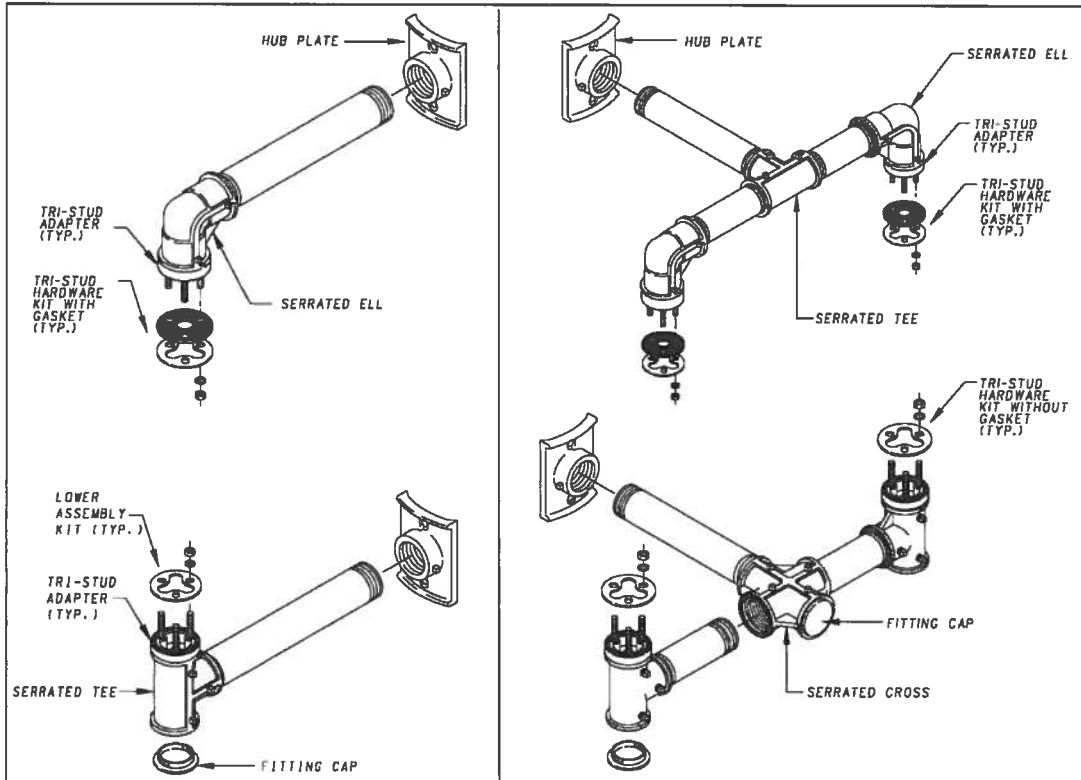
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| <p align="center">3</p> | <p>“Your on-structure conduit items, furnish, install, on structure, is that going to cover the sides of bridges? Not overpasses, bridges</p> | <p>Under both contracts, DeIDOT primarily intends to use Items 745605 and 745609 for banding conduit to existing wood or steel poles or sign structures. If the installation of bridge-mounted conduit is required per DeIDOT’s discretion or based on the approved traffic plans that supplement each work order, then negotiated prices will be established for Item 745549 – Installation of Bridge-Mounted Conduit from Work Area above Bridge Deck (LF) and 745550 – Installation of Bridge-Mounted Conduit from Work Area below Bridge Deck (LF). Negotiated prices will be the preferred method of establishing payment for new items added to the contracts. Force Account payment, per Standard Specification 109.04, may be utilized if negotiated prices prove to be unsuccessful.</p> |
| <p align="center">2</p> | <p>“On the LEDs, looking at it real quick, you just had -- one might have been like 200 LEDs, but green is substantially higher than, say, yellow. Do you want to break that out or just figure everything on the higher end? Basically, if you're going to bid on an intersection with LEDs on it, I think you have the item is supplied LED 200, or whatever that amount was. Well, what color do we want?”</p> | <p>The price differential for arrow and circular shaped LED signal modules of different colors is generally considered nominal for the comprehensive furnish and install items for signal head sections (i.e., Items 746929, 746930, 746932, and 746933), which also include furnishing the traffic signal housing and associated hardware and the specified installation type (i.e., rigid or span mounting). For Contract 1209, the relatively small anticipated quantities for Items 746931 and 746934 should not significantly alter the total bid. For Contract 1217, the need for a weighted average to establish the unit cost for each furnish only item (i.e., Items 746943 – 746946) is at the bidders’ discretion.</p> |

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| 1 | “On the contract you only have pole base type 3, 4, and 6. In the instance where you need to use an alternate, there's really no pay item for that. How does that work?” | The installation of pole base, types 3, 4, and 6 are generally anticipated under both contracts based on the approved traffic plans that supplement each work order. Type 3 pole bases are commonly specified for traffic signal and CCTV camera foundations. Type 4 and type 6 pole bases are commonly specified for pedestal pole and roadway lighting foundations, respectively. If additional reinforced concrete or modified dimensions are required for a specific pole foundation per DelDOT’s discretion (e.g., unanticipated field conditions), then payment will be in accordance with the respective unit cost for Item 746614 – Pole Base Extension (CF) or based on a negotiated price for an alternate pole base type. Negotiated prices will be the preferred method of establishing payment for new items added to the contracts. Force Account payment, per Standard Specification 109.04, may be utilized if negotiated prices prove to be unsuccessful. |
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 Revised Notes (5/18/12)




ONE-WAY SIDE POLE MOUNTING

TWO-WAY SIDE POLE MOUNTING

NOTES:

1. THE TOP HUB PLATE SHALL BE ROTATED UPWARD WHEN THE SIGNAL HEAD IS MOUNTED ON A WOOD POLE.
2. A 1" DIA. HOLE SHALL BE DRILLED IN THE METAL POLE FOR WIRING AT BOTTOM PLATE.
3. THE UPPER ARM SHALL CONSIST OF A SERRATED ELL, 12" NIPPLE, GASKET AND TRI-STUD ADAPTER.
 - THE SERRATED ELL SHALL HAVE A SERRATED 72 TOOTH BOSS ON ONE END WITH TRI-STUD MOUNTING. THE OUTSIDE DIAMETER OF THE SERRATION SHALL NOT EXCEED 2 3/8". THE NON-SERRATED END OF THE ELL SHALL BE NOTCHED TO ACCEPT A SEPARATE SERRATED LOCKRING. THE ELL SHALL BE THREADED 1 1/2" NPS ON BOTH ENDS. THE ELL SHALL HAVE A MINIMUM 3/8" WIDTH BOSS THAT EXTENDS THE ENTIRE LENGTH OF BOTH SIDES, ON ONE SIDE OF THE BOSS AT EACH END OF THE ELL SHALL BE A 1/4" - 20 THREADED OPENING FOR A SETSCREW.
 - A 1 1/2" X 12" EXTRUDED NIPPLE SHALL HAVE 1 1/2" NPS THREADS ON BOTH ENDS. THE NIPPLE SHALL HAVE A "BRUSHED" FINISH.
4. THE LOWER ARM SHALL CONSIST OF A SERRATED TEE, 12" NIPPLE AND TRI-STUD ADAPTER.
 - THE SERRATED TEE SHALL BE FABRICATED LIKE THE ELL EXCEPT THE TEE IS TO HAVE SERRATIONS ON TWO (2) THREADED OPENINGS 90° APART, THE NON-SERRATED END SHALL COME STANDARD WITH A PLASTIC KNOCKOUT PIN.
 - THE 1 1/2" X 12" NIPPLE SHALL BE THE SAME AS ABOVE.
5. FOR WOOD POLE MOUNTING:
 - ATTACHMENT STRAPS FOR WOOD POLE SHALL BE 3/8" WIDTH, TYPE 201, STAINLESS STEEL.
 - ATTACHMENT BOLTS FOR WOOD POLE SHALL BE STAINLESS STEEL 3/8" DIA. x 2 1/2" LENGTH.

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| SPECIFICATION 748929 748933 748935 | CATEGORY CODE ITEMS SIGNAL HEADS | DELAWARE DEPARTMENT OF TRANSPORTATION TRAFFIC CONSTRUCTION DETAILS SIDE POLE MOUNTING FOR VEHICULAR AND PEDESTRIAN SIGNAL HEADS |
| APPROVED _____ CHIEF TRAFFIC ENGINEER | | |
|  | DETAIL NO. | DE 746.006-01 |

