

Call 03 Intersection Improvements on SR 6 at Jackson Avenue, known as Federal Aid Project No. NH-0070-04(013) / 102221302 in Lafayette County.

Q1. **1.** Pay item # 639-A120 qty = (11), I count 13 wood needed will 2 poles be installed in early phasing and reinstalled under later phasing? **2.** Do pay item quantities shown on addendum 1 cover conduit and cable needed for the installation of Temporary signals? This seems clear by note 3 on sheet 21 ((for signal heads and 4a controller)) but not really clear for conduit/bore/trench/cable. **3.** Please advise pay item 644-A001 optical detector qty = 10, I only count 9, will this be a 722 detector with 2 tubes, one facing EAST and 1 facing SOUTHWEST or two separator detectors with 2 tubes facing each direction? **4.** Will optical detection be used "at all" during any of the temporary traffic control phases 1-4? **5.** Pay item # 907-639-A047 Traffic Signal Equipment Pole, type V 14' shaft to be used on flasher assembly. What type of break-a-way base if any is required? **6.** What if any are the time of day restrictions on the Installation/Removals/Temporary/Permanent traffic signal equipment? **7.** Pay item 642-A008 solid state traffic controller qty =2, are one of these pay items to be a controller with UPS, if so, what kind of UPS cabinet will be required? a "taller" p style or a ((P size with UPS))? There is a major difference in foundation size. Please advise.

A1. **1.** Some of the wood poles are being reused through the phases. Each new wood pole is labeled "40' Timber Pole." If the pole is remaining through the phase, it will not be labeled. **2.** There's no temporary trench or bore. Cable for the temporary signal is included under Pay Item 666-C017, aerial supported. **3.** Optical detectors are numbered in the plans; OD-5 and OD-8 have double antennas. **4.** No, optical detection will be used for the permanent installation only. **5.** Plans call for Type V pole. Please see TSD-6 for foundation details. **6.** The Contractor should perform the actual switchover of the signals during daylight hours but outside periods of peak traffic and game day weekends. Any installation work other than the switchover is governed by the restrictions for all other work. **7.** Pay Item 642-A001 is to be used with the UPS battery backup for SR-6 at Jackson. We specify a dual cabinet to have UPS and controller using same foundation. Please contact cabinet manufacturer for details on size and type.

Q2. Will a daytime "rolling closure" be permitted for Rumble Strips?

A2. Daytime closures will be permitted as per NTB 4977.

Q3. Drawing LP-3 (lighting plan B) The Underground Pull Box shown between the pad mounted transformer and the existing power company pole is detailed as a cast iron pull box (detail 1/LD-2) drawing LD-2 and is one of the quantity of 3 in Line #1200 Item 682-B025 Underground pull box. These pull boxes are typically very large polymer concrete boxes specified by the local utility. Is this the proper pay item for this pull box or should a pull box meeting the local utility co specifications be included in the secondary power controller line item?

A3. Yes

Q4. Drawing LP-3 (lighting plan B) Key Note 4 instructs to install (3) 3" empty conduits from the Oxford Utility pad mounted transformer to the existing power company pole. Drawing

LD-1 (lighting details) shows the (3) 3" empty conduits as part of the traffic signals and the * further instructs paid for as traffic signal conduit. Would the correct pay item be Line #1120 668-A020 or is there some other traffic signal pay item it should be paid under? The linear feet for 668-A020 does not match length indicated on drawing LP-3.

- A4. The quantity shown for pay item 668-A020 is for incidental work only. The quantity required to connect from the power company supply to the power controller is absorbed work.
- Q5. **1.** Would MDOT approve conversion of payment for Granular Material Class 9, Group B (line no. 1420) from by the ton to by the cubic yard per the provisions of section 109.01? **2.** Has Sunday work already been cleared with local authorities?
- A5. **1.** No **2.** Yes
- Q6. **1.** On Sheet TSI-7 and TSI-8 there is a call for 12' channel posts for the installation of the VDS Repeater. Both locations refer to TSD-8 for details. Is the mount to be a u-channel post as used on signs or a 24' pole with a repeater mounted at 12'? **2.** If a pole as shown on TSD-8 is used to mount the VDS Repeater, what color/finish is required for this pole? **3.** For Pay Item 645-A001, Quantity of 5, what color/finish is required for this pole? **4.** For Pay Item 907-639-A060, Type V, 8' shaft what color/finish is required for this pole?
- A6. **1.** Repeaters from TSI-7 and TSI-8 would preferably be mounted on a Type V pole, 14' shaft at a mounting height of 12', instead of a U-Channel post. An overrun in the Type V pole quantity of 2 Poles and associated foundation quantities may be requested to provide a mount for the repeaters. **2.** The finish for the Type V pole, 14' shaft shall be galvanized. **3.** These are the Type V poles (907-639-A047). The finish shall be galvanized. **4.** The finish for the Type V pole, 8' shaft shall be galvanized, powder coated dark bronze.