

Questions/Answers #4: January 10, 2011

The following is a compilation of questions from several potential proposers and have been answered in the order received. All questions are presented as submitted.

- Q1: If a camera mounted laser is used, does MDOT already have a camera unit they intend to mount the laser to?
A: No, MDOT does not already have a camera unit.
- Q2: Is the entity which is awarded the contract expected to perform the repairs outlined in the Special Provision For Laser Inspection of Sewer and Culvert Pipe which was included with the RFP?
A: No.
- Q3: If the answer to the above question is yes, what quantity of repairs should we assume?
A: N/A.
- Q4: Why does it matter what type of locomotion is used to move through a pipeline?
A: Locomotion matters in the case of a corrugated metal pipe. A track system will smooth out the corrugations allowing the laser profiler to move through the pipe.
- Q5: How will 3D technology demonstrate a 75% laser circle?
A: Per the Laser Special Provision: "The laser projection head must be positioned, in relationship to the camera, so that the laser ring fills a minimum of 75 percent of the monitor screen height and the alphanumeric distance display does not interfere with the laser ring image."
- Q6: How will measurements from 3D technology be made verifiable?
A: Per the Laser Special Provision: "The Contractor must provide a letter sealed by a Professional Engineer licensed in the State of Michigan which certifies that all aspects of this special provision have been met, including the accuracy and calibration requirements of the profiling equipment and software."
- Q7: Will the equipment be tested under static or dynamic conditions?
A: Please be more specific with the question; does this question relate to the pipes or the equipment used to test the pipes?
- Q8: Speed has a profound effect on scan density, which in turn has a profound effect on accuracy and repeatability. In general, contractors want to complete their work as quickly as possible as this results in cost savings. How will you know that a maximum inspection speed of 30 feet was respected during the laser profiling aspect?
A: Per the Laser Special Provision "The camera and laser projection head must be moved through the pipe at a speed not to exceed 30 feet per minute,... and The Contractor must provide a letter sealed by a Professional Engineer licensed in the State of Michigan which certifies that all aspects of this special provision have been met, including the accuracy and calibration requirements of the profiling equipment and software."
- Q9: Does the required accuracy and repeatability need to be met under static or under dynamic conditions?
A: Please be more specific with your question; does this question relate to the pipes or the equipment used to test the pipes?