**ODOT District 12**

**Survey Task Request**

**Task Description:**

**1) Take survey shots at culvert inlet and outlet inverts. Identify size of pipe and pipe material.**

**2) Take survey shots at top of pipe at inlet and outlet of culvert.**

**3) Take survey shots at edge of pavement at culvert inlet and outlet.**

**4) A) Take survey shots longitudinally along edge of pavement, both sides of roadway,**

**B) Take survey shots longitudinally along centerline of pavement**

**For A) and B) take survey shots every 25 feet for a total length of 400 feet (200 feet in each direction from culvert).**

**5) Take survey shots at top (foreslope and backslope) and bottom elevations of roadside ditch every 25 feet for the entire 400 foot longitudinal length of survey (as stated in task #4). Take survey shots of all pipe inverts outletting into roadside ditch (these pipes are usually from septic systems or downspouts). Identify size and material of pipe.**

**6) Take survey shots at ground elevation of all trees, utilities (gas, electric, etc,), poles, guy wires, shrubs, guardrail, catch basin grates and pipe inverts, edge of driveway and drive apron, etc. within surveyed area. Identify diameter of all trees. Identify type and size of all pipe (if possible).**

**7) Take survey shots at inverts of all drive culverts or any pipe invert for the entire surveyed area. If possible, shoot additional invert elevations at the next upstream location of open pipe (this will verify direction and slope of pipe). Identify size and type of pipe material.**

**8) Take survey shots of top of bank and flow line of stream channel every 25 feet for a distance of 100 feet upstream and 100 feet downstream from the inlet and outlet of culvert pipe. Also, take random ground survey shots approximately 10 to 20 feet outside of stream channel banks upstream and downstream of culvert for a distance of 100 feet.**

**9) Establish a .dtm (topo) for each of the culvert locations, outlined in the attached maps.**