

**INSPECTION GUIDE FOR
MICROTUNNELING**
October, 2006

PRE-INSPECTION PLAN REVIEW

- Review geotechnical and soil reports.
- Note location of other utility and/or MDOT facilities with respect to the proposed alignment.
- Note the minimum cover above the top of the pipe is _____ feet.
- Note proposed pipe characteristics:
Pipe material _____,
Pipe diameter _____ inches,
Pipe wall thickness _____ inches,
Over-cut diameter _____ inches.
- Review job site layout including: distance from access pits to roadbed, proposed sheeting and bracing, materials storage and fabrication area, safety devices (barrels, guardrail etc.), and dewatering pit locations.
- Note unique or special items /circumstances: _____

CONSTRUCTION INSPECTION

- Verify traffic control is consistent with the permit requirements, MISS DIG has been contacted, and the MDOT permit is on-site.
- Verify job site layout is consistent with the approved plans, especially the alignment of the pipe and boring equipment.
- Verify dewatering effort is satisfactory.
- Verify pipe characteristics are consistent with permit requirements.

- Verify jacking pipe is certified for microtunneling, the pipe has a smooth interior and exterior surfaces, is used within the entire influence area of the roadbed, has clean and square ends, joints are watertight, defective pipe is not used, and damaged pipe is jacked through to the receiving access pit and removed.
- Verify the Micro Tunneling Boring Machine (MTBM) has the capability to steer, align the face, simultaneously remove spoil and install pipe, and remotely control the line and grade.
- Verify the back thrust block is structurally adequate, jacking force is within the range of calculated jacking force, and that the jacking force is recalculated whenever the operation is stopped.
- Verify lubrication fluid is used, and a lubrication system properly injects lubricant on the inside and outside of the pipe and the volume or pressure of slurry flow in the supply and return side of the slurry loop is equal and steady.
- Verify each end of the pipe is enclosed, restoration is completed.

PERMIT NO. _____

INSPECTOR	DATE
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