

**INSPECTION GUIDE FOR  
PIPE RAMMING  
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:  
  
Casing material **STEEL ONLY**  
Casing diameter \_\_\_\_\_ inches,  
Casing wall thickness \_\_\_\_\_ inches,  
Casing spacers material \_\_\_\_\_,  
Spacer spacing \_\_\_\_\_,  
Carrier material \_\_\_\_\_,  
Carrier 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 jacking equipment.
- Verify continuous monitoring records indicate bearing and grade of the leading

edge of the pipe is consistent with the approved plans.

- Verify pipe characteristics are consistent with permit requirements.
- Verify the casing pipe is new steel with 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 removed.
- Verify hammer frame is used to distribute ramming forces around the pipe circumference, a launch seal is used at face of ramming operation, and a casing band is applied to the leading edge of pipe.
- Verify lubrication fluid is used, and a lubrication system properly injects lubricant on the inside and outside of the pipe.
- At the completion of the trenchless installation, ensure space between casing and carrier pipe is bulkheaded.

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PERMIT NO. \_\_\_\_\_

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INSPECTOR	DATE
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