pennsylvania
DEPARTMENT OF TRANSPORTATION
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COMMONWEALTH OF PENNSYLVANIA
ENGINEERING DISTRICT 5-0

Rev. 2010

CO. Schuylkill SHEET NO. 2 OF 2
S.R. 1008 SUBJECT Hydraulic Opening Calc. BY MH DATE 07/29/16
SEG. 50 OFFSET 2107 CHKD. BY _____ DATE _____

Comparing Current area to Proposed area

$53.56\ ft^2$ to $49.15\ ft^2$

$\frac{49.15}{53.56} \times 100 = 91.77\%$

$100 - 91.77 = 8.23\ \%$

Therefore using this proposed fix to the bridge will reduce the area by 8.23 %.

E39-9999
BMS 53 1008 0050 2107
SR 1008 over Tributary to Mill Creek

Photo 1 - Near Approach, Looking Ahead

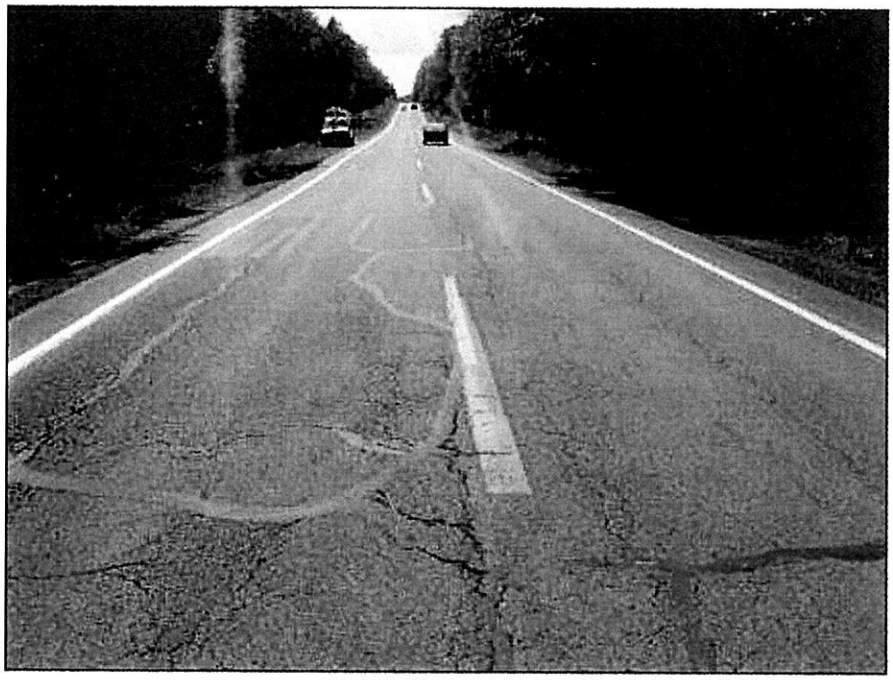

Photo 2 - Far Approach, Looking Back

E39-9999
BMS 53 1008 0050 2107
SR 1008 over Tributary to Mill Creek

Photo 3 – Left Elevation (Upstream)

Photo 4 – Right Elevation (Downstream)

E39-9999
BMS 53 1008 0050 2107
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Photo 5 – Looking Left (Upstream)

Photo 6 – Looking Right (Downstream)

E39-9999
BMS 53 1008 0050 2107
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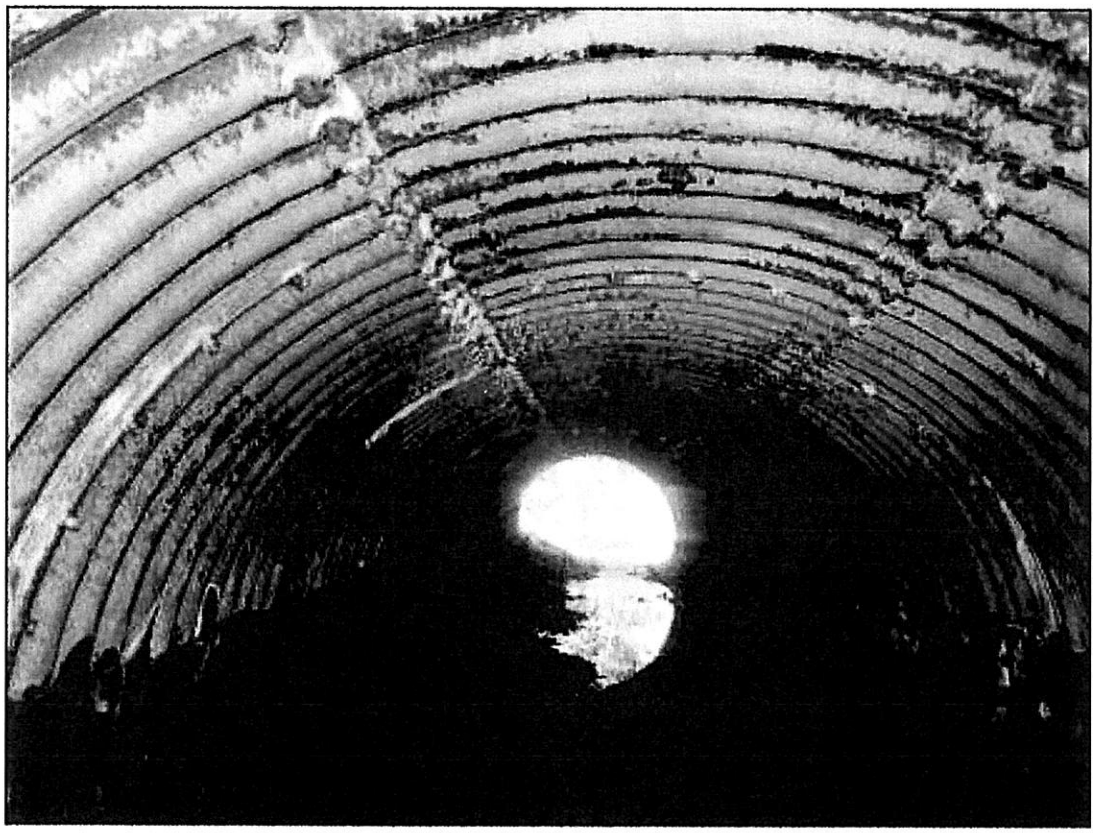

Photo 7 – General View of Underside, Looking Left

E39-9999
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SR 1008 over Tributary to Mill Creek

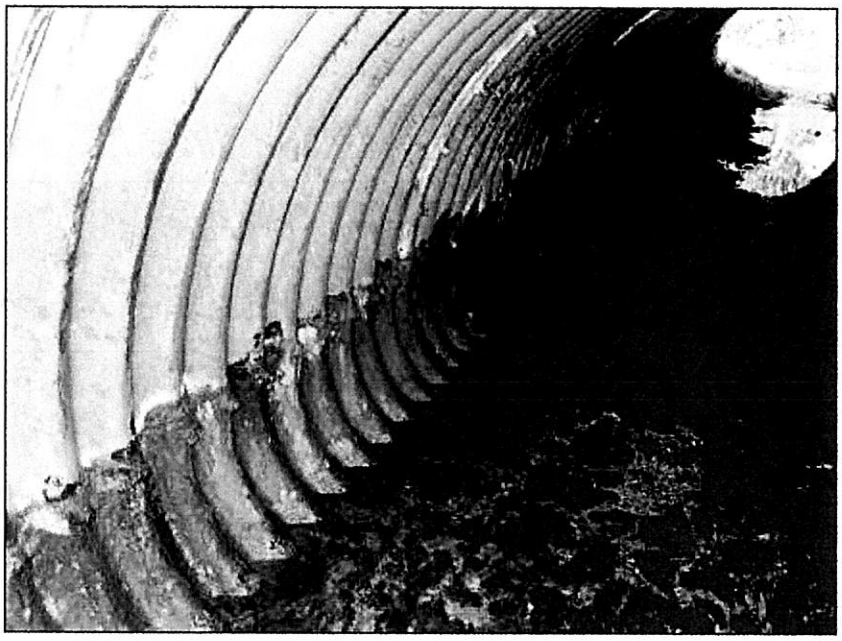

Photo 8 – General View of Near Sidewall

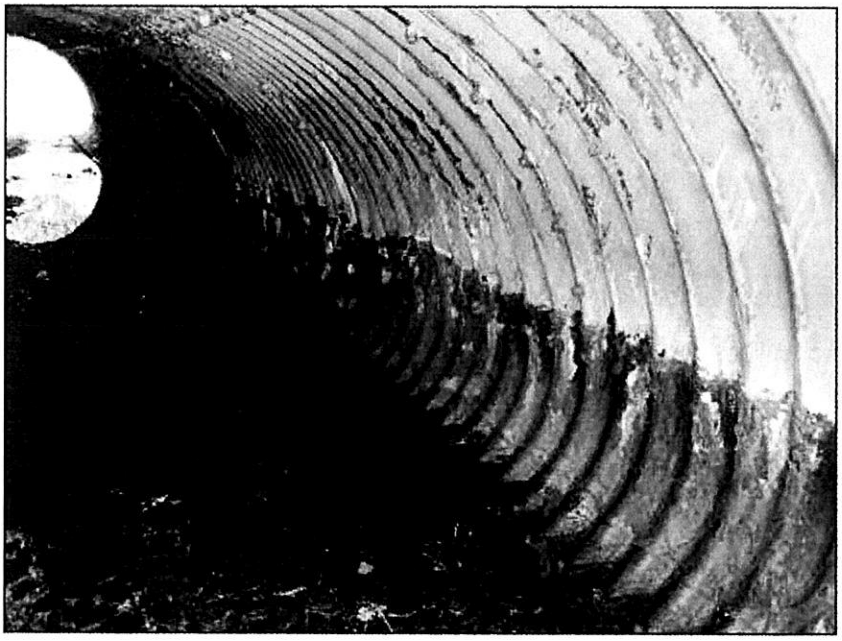

Photo 9 – General View of Far Sidewall

E39-9999
BMS 53 1008 0050 2107
SR 1008 over Tributary to Mill Creek

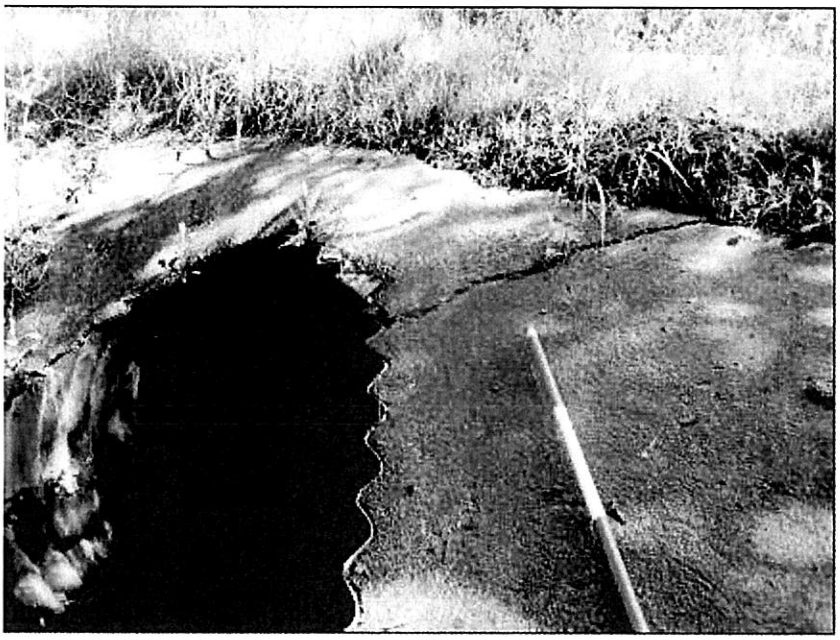

Photo 10 – Left Headwall Cracking. Typical

Photo 11 – Far Right End Perforation Holes in Floor

E39-9999
BMS 53 1008 0050 2107
SR 1008 over Tributary to Mill Creek

Photo 12 – Near Left End Perforation Holes in Floor

Photo 13 – Head Wall Exposed rebar