# Underground Drainage Line Repair

**Gross Pointe Farms, MI**

<table>
<thead>
<tr>
<th>Project Challenges</th>
<th>Solution</th>
<th>Support</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Previous sewer rehabilitation caused the broken saddle was not sealed and resulted in groundwater and soil infiltration</td>
<td>Drill 5/8” diam. holes to seal leaky joint behind the inside wall of the box</td>
<td>Specifications</td>
<td>Minimal downtime: Work was completed within 6 hours, mitigating over one week of major traffic rerouting</td>
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<tr>
<td>Eroding soil behind the box caused large voids and surface settlement</td>
<td>Utilized lazer levels to detect 1mm bump to detect soil density was obtained to lift roadway</td>
<td>Designed injection quantity and depth</td>
<td>Financial Savings: Saved client $59,000.00</td>
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<tr>
<td>Asphalt settling</td>
<td></td>
<td>Pre-construction meeting</td>
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<td>On-site installation</td>
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