

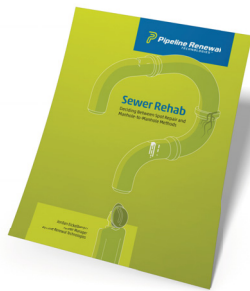
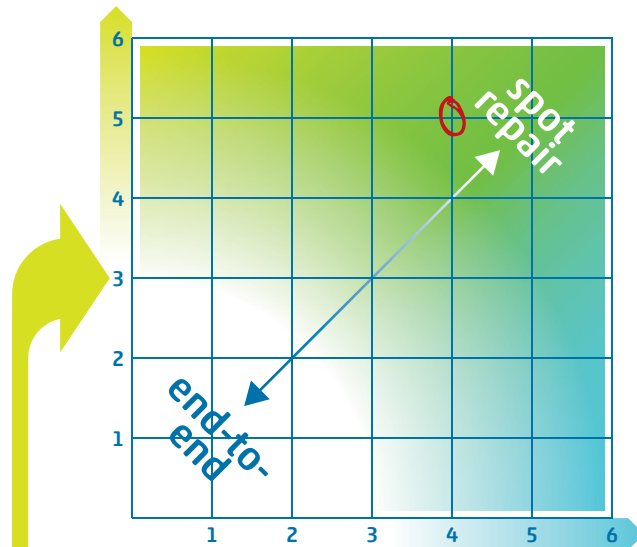
sewer rehab strategy worksheet

deciding between end-to-end and spot repair methods

address **FIRST & MAIN**
 asset ID **8675308**
 date **10/9/17** technician **NL**

A range of technologies are available to repair any sewer pipe. Choosing one means first determining whether end-to-end (manhole-to-manhole) or spot (point) repair is advised. Here we present 12 of the most important considerations. Simply tabulate your "yes" answers in each column to understand where a given pipe falls on the recommendation matrix.

	YES	NO
Busy location? Spot repair generally poses less traffic and service disruption in high-traffic areas than end-to-end.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
High flow? End-to-end requires bypass pumping under moderate flow, whereas certain spot repair methods don't.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Urgent? End-to-end solutions typically require more preparation (materials, equipment, crew) than spot repairs.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Availability? Do local contractors perform spot repair, or is your city willing to make a minor investment in acquiring the capability in-house?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Budget constraints? End-to-end typically costs more than 2-3 spot repair installations.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Environmental factors? Access constraints and sensitive installations may favor methods that deploy easily and pose less risk.	<input checked="" type="checkbox"/>	<input type="checkbox"/>



To explore the full range of considerations when making crucial rehab decisions, download our free companion white paper at:
pipelinert.com/rehabstrategy

	YES	NO
Two or fewer defects? A limited number of defect sites makes point repair more economical than end-to-end.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Localized defects? Defects that are localized (holes, cracks, roots) rather than pervasive are good candidates for spot repair.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Challenging geometry? Bends and tapers present special challenges for end-to-end, and are often better handled piece-wise.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Active infiltration? End-to-end solutions like CIPP can be adversely impacted by infiltration; mechanical point repair isn't.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Service life ending? If a pipe is slated for replacement, expansion or major rehab, spot repair may be an affordable stop-gap solution.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Surrounding voids present? Voids around pipe can be solved by spot repair techniques like resin injection, but not by end-to-end.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

external factors score
add up "yes" answers **5**

internal factors score
add up "yes" answers **4**