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To: [Michael Mucha](#)
Cc: [Todd Gebert](#); [William Walker](#); [Rachel Feil](#)
Subject: Lining vs. Joint Grouting
Date: Thursday, June 10, 2021 1:50:55 PM
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Michael:

I took a quick look at historical costs of lining vs. joint grouting. Here's what I came-up with:

- 48" sewer lining (with bypassing) = \$420/ft.
- 48" joint grouting (bypassing not required) = \$73/ft.
- 24" sewer lining (with bypassing) = \$174/ft.
- 24" joint grouting (bypassing not required) = \$17/ft.

So....not surprisingly....joint grouting is 80%-90% less expensive per foot than lining. What determines the need between the two is the condition of the host pipe. If it is deteriorated and in rough shape, lining is typically required. If there are significant leaks at joints, they need to be grouted before lining. Otherwise the liner will not cure properly and may bulge.

If the pipe is in good condition, i.e., little to no corrosion, then joint grouting alone is a candidate. If you remember, that's what we did during the Southeast Interceptor project upstream of Pumping Station 9. We originally thought this would be lined. But after looking at it further, the pipe was in good shape and we decided to only grout most of the joints. Because of this, the project went from \$1M to \$250K.

We can discuss this further as needed. Just wanted to begin the discussion at this point. Thanks.

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