



Staff Report

Memo Date: January 14, 2025
To: Utility Commission
From: Kyela O'Loughlin, P.E., Public Works and Utilities Director
Subject: Vilas Road Sanitary Sewer Dip and Replacement

Background/Overview

During the fall sanitary sewer televising this year, it was determined that a sanitary sewer pipe installed in 2020 under Vilas Road was not installed properly. It appears it was horizontally directionally drilled from the televising video and has a 60-foot sag that is holding water from the cleaning. Additionally, the directional drilling of the pipe does not appear to have the pipe straight, instead at a curvature. The televising report and still pictures can be found attached.

This sanitary sewer was installed for future needs and currently does not see any flow passing through it. However, the Farm Interceptor project has tied into this sanitary interceptor system upstream. After the Farm Interceptor project is completed, there will be flow redirected as a relief to the overall system down this interceptor, as previously discussed.

Gerke Excavating, the contractor completing the Farm Interceptor project, provided an estimate on this work to lump it in with the work on the Farm Interceptor. The proposal includes all work to fix the above-mentioned defects. The total of the proposal is \$152,380.71.

Recommendation

Staff recommend moving forward with the proposal from Gerke Excavating for \$148,968.21 which includes all their proposed work except for the optional pavement markings, which Public Works staff will complete inhouse.



Inspection report

Date: 5/21/2025	Work Order:	Weather: Light Rain	Surveyed By: Pat Hartung	Certificate Number: U-309-8368	Pipe Segment Ref.: 772-771
Year laid:	Pre-cleaning: Light Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 59.6'	Length Surveyed: 59.6'

City: Cottage Grove	Drainage Area:	Upstream MH: 772
Street: Vilas Rd.	Media Label:	Up Rim to Invert: 0.0
Location Code: <i>Secondary roads, non-numbered suburban/rural</i>	Flow Control:	Downstream MH: 771
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Sanitary Sewage Pipe	Total gallons used: 0.0
Pipe size: 18"	Sewer Category: SEC	Joints passed: 0
Pipe material: Polyethylene	Purpose: Routine Assessment	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:450	Distance	Code	Observation	Counter	Photo	Grade		
	0.0	AMH	Manhole / 772 Upstream	00:00:00				
	0.0	MWL	Water Level, 5% of the vertical dimension	00:07:07				
	35.7	MWM	Miscellaneous Water Mark, 25% of the vertical dimension	00:02:04	772-771_5 344c5a6-e 20b-4afd-b			
	59.6	DFE	Deformed Flexible Elliptical, 10%	00:02:37	772-771_f 7db0c77-7 273-49a5-	S3		
59.6	MSA	Miscellaneous Survey Abandoned / Pipe Bends Down/Sag Ahead/Deformed ?	00:03:02	772-771_d b0cff94-62 9b-4344-8				
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
3100	0000	3100	3.0	0.0	3.0	3.0	0.0	3.0

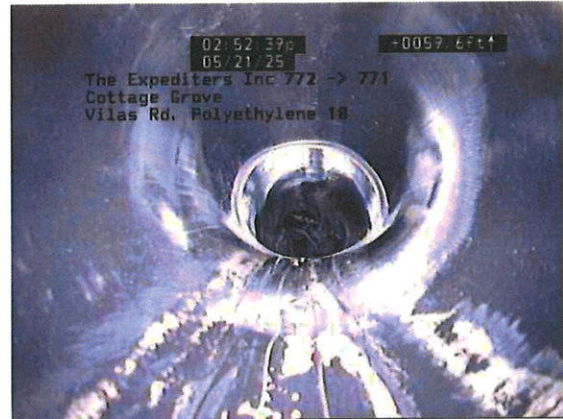


Section Pictures - 5/21/2025 - 772-771

City Cottage Grove	Street Vilas Rd.	Date 5/21/2025	Pipe Segment Reference 772-771	Section No. 68
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772-771_5344c5a6-e20b-4afd-b8b7-55fbc94b08dd_20250521_152145_952.jpg, 00:02:04, 35.70ft
 Miscellaneous Water Mark, 25% of the vertical dimension



772-771_f7db0c77-7273-49a5-af2d-37f1addcbb67_20250521_152509_136.jpg, 00:02:37, 59.60ft
 Deformed Flexible Elliptical, 10%



772-771_db0cff94-629b-4344-87d7-e5554e255330_20250521_152629_259.jpg, 00:03:02, 59.60ft
 Miscellaneous Survey Abandoned / Pipe Bends Down/Sag



772-771_77cb5596-bd27-4455-8be5-f68d992f2f59_20250521_152707_760.jpg, 00:03:02, 59.60ft
 Miscellaneous Survey Abandoned / Pipe Bends Down/Sag



Inspection report

Date: 9/4/2025	Work Order:	Weather: Dry	Surveyed By: Pat Hartung	Certificate Number: U-309-8368	Pipe Segment Ref.: 772-771 Reversal
Year laid:	Pre-cleaning: Other	Direction: Upstream	Pipe Joint Length:	Total Length: 122.6'	Length Surveyed: 122.6'

City: Cottage Grove	Drainage Area:	Upstream MH: 772
Street: Vilas Rd.	Media Label:	Up Rim to Invert: 0.0
Location Code: <i>Secondary roads, non-numbered suburban/rural</i>	Flow Control:	Downstream MH: 771
Location Details: <i>Vilas Rd. Crossing Just Northwest of Waald Bridge Rd.</i>	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Sanitary Sewage Pipe	Total gallons used: 0.0
Pipe size: 18"	Sewer Category: SEC	Joints passed: 0
Pipe material: Polyvinyl Chloride	Purpose: Resurvey For Any Reason	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

	1:926 Distance	Code	Observation	Counter	Photo	Grade		
	0.0	AMH	Manhole / 771 Downstream	00:00:00				
	0.0	MWL	Water Level, 5% of the vertical dimension	00:00:00				
	23.2	MMC	Miscellaneous Material Change, Polyethylene / Poly	00:01:05	772-771 Reversal_ 6107ac12-			
	42.6	MWL	Water Level, 15% of the vertical dimension	00:02:49	772-771 Reversal_f 899fd58-d			
	62.4	MWL	Water Level, 5% of the vertical dimension	00:04:10	772-771 Reversal_ 0033966d-			
	82.7	MWLS	Miscellaneous Water Level, Sag, 30% of the vertical dimension	00:05:04	772-771 Reversal_ e3ba57d1-	S2		
	118.8	MWL	Water Level, 5% of the vertical dimension	00:07:06	772-771 Reversal_ 9a475e2d-			
	122.6	MSA	Miscellaneous Survey Abandoned / Reversal Complete	00:08:52	772-771 Reversal_ 2025a966-			
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
2100	0000	2100	2.0	0.0	2.0	2.0	0.0	2.0

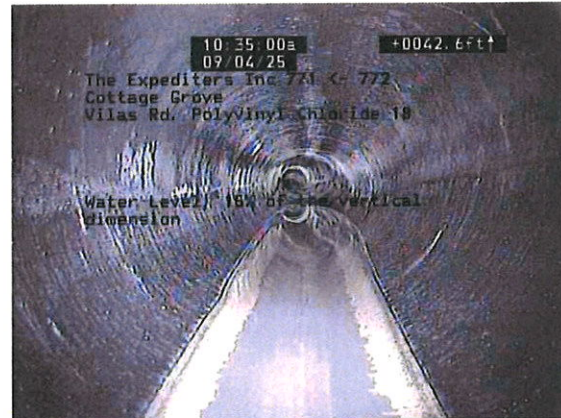


Section Pictures - 9/4/2025 - 772-771 Reversal

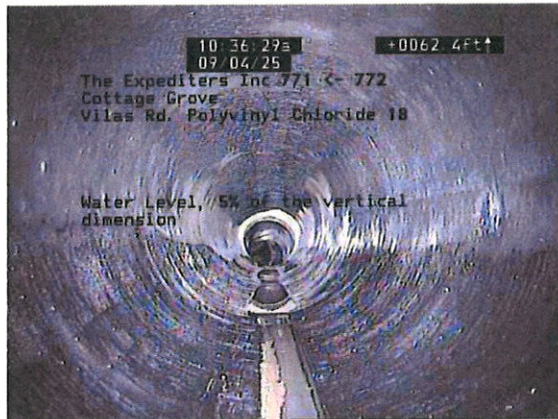
City	Street	Date	Pipe Segment Reference	Section No.
Cottage Grove	Vilas Rd.	9/4/2025	772-771 Reversal	1



772-771
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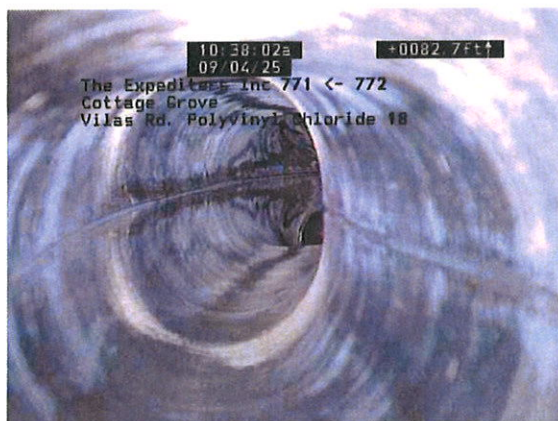
772-771
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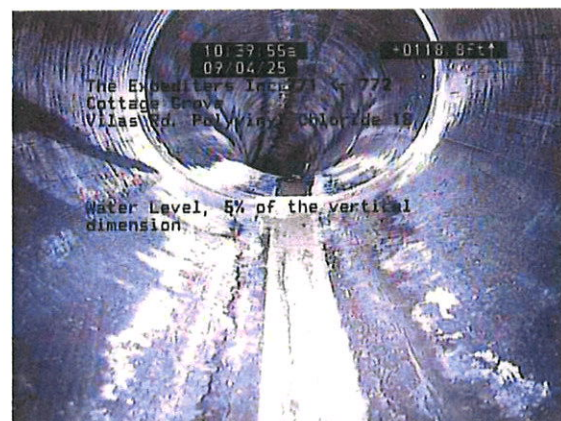
772-771
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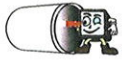
772-771
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772-771
 Reversal_7f2348e1-15f3-4018-a6d8-cbc5218b337f_20250904_1111329_958.jpg, 00:05:04, 82.70ft



772-771
 Reversal_9a475e2d-e3e1-429e-aeed-1584027921a7_20250904_111523_668.jpg, 00:07:06, 118.80ft



Section Pictures - 9/4/2025 - 772-771 Reversal

City	Street	Date	Pipe Segment Reference	Section No.
Cottage Grove	Vilas Rd.	9/4/2025	772-771 Reversal	1



772-771
Reversal_2025a966-bd40-4bf7-945b-a9eca051cc43_20250904_112209_797.jpg, 00:08:52, 122.60ft



772-771
Reversal_08bb5bc4-861d-4bb2-b24a-85236a1323a3_20250904_112240_707.jpg, 00:08:52, 122.60ft