

## **MEMORANDUM**

**To:** Mayor and City Council

**From:** Carl Thomas, Stormwater Manager

**Date:** July 12<sup>th</sup>, 2021

**Subject:** Funding Authorization for 2572 Briers North Drive Stormwater Repairs

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### **ITEM DESCRIPTION**

Approval of Funding for Stormwater Repairs at 2572 Briers North Drive. Estimated cost, plus 20% contingency, is \$65,316.90.

### **BACKGROUND**

Structural deficiencies to the storm system on Briers North Drive were identified responding to a sinkhole on 3/29/2021. The entire pipe system is composed of 36-inch corrugated metal pipe that is approximately 34.4 years old and in poor condition. CCTV footage discovered corrosion with visible holes in the pipe. Recommended repairs include:

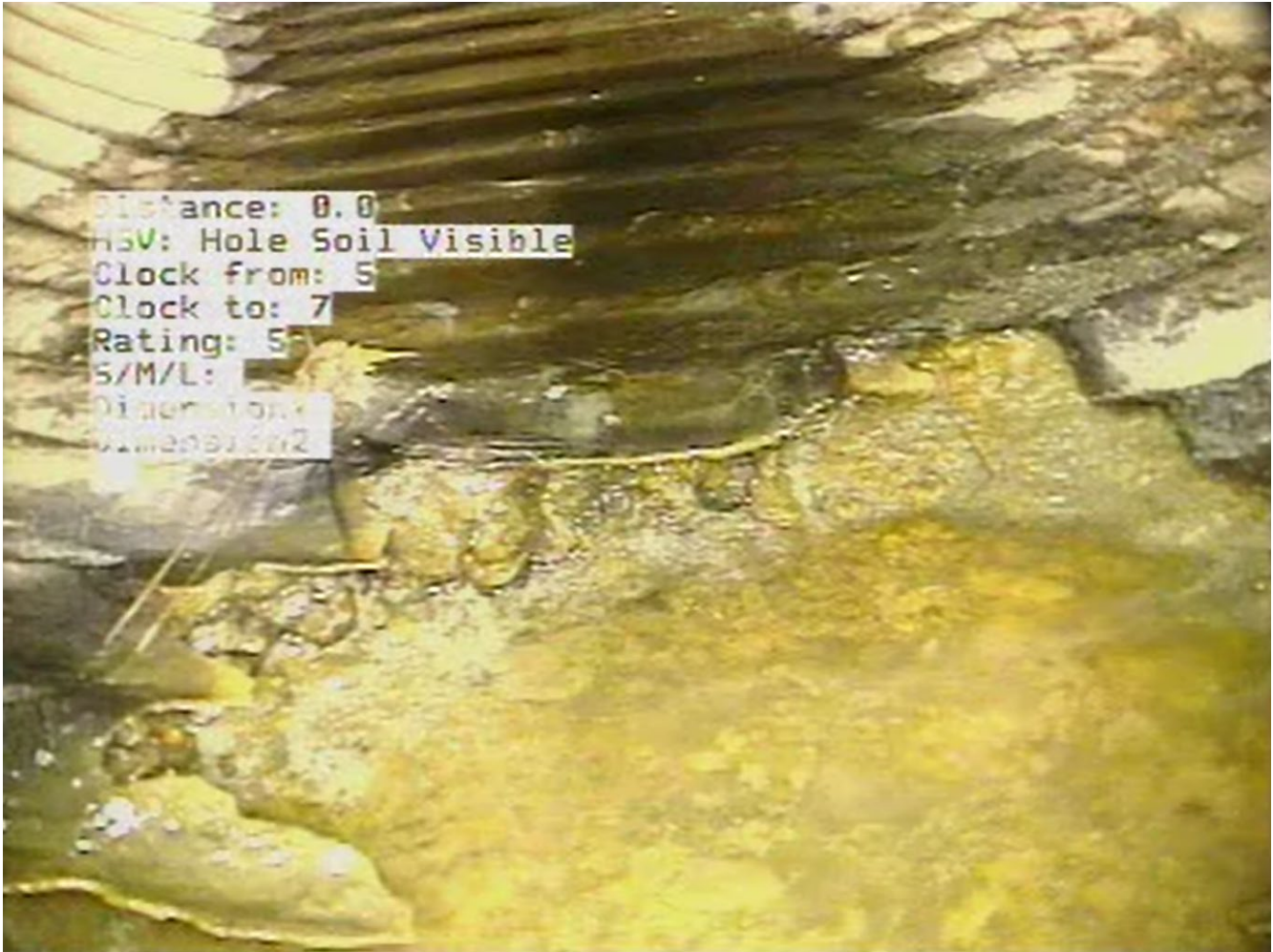
- Repair 160 LF of " Corrugated Metal Pipe (CMP) with EcoCast™ geopolymer
- Invert repair with flowable fill
- Sinkhole Repair

If approved, this project will be funded from the FY2021 Stormwater Repairs and Maintenance Budget.

### **RECOMMENDED ACTION**

Staff recommends approving \$65,316.90 in funding for Stormwater Pipe Repairs at 2572 Briers North Drive.

## INVERT CORROSION WITH VISIBLE HOLES



## DEBRIS COLLECTING IN INVERT VOIDS

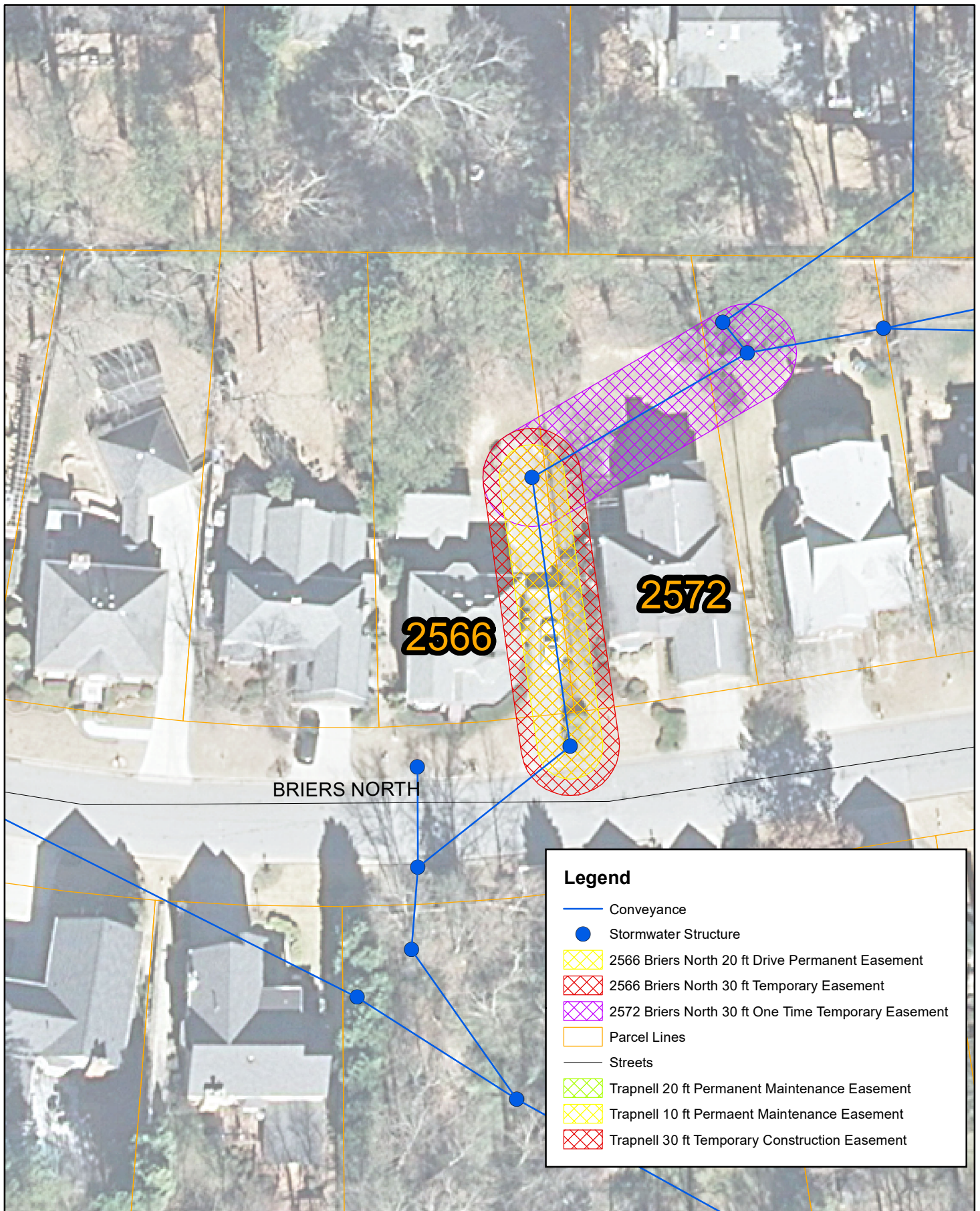




## SINKHOLE BETWEEN 2566 AND 2572 BRIERS NORTH DR







# Exhibit A

0 15 30 60 90 120 Feet



<b>IPR Southeast LLC</b>	
<b>ESTIMATE - RFP 18-04 2018 STANDBY STORMWATER REPAIR UNIT CONTRACT</b>	
<b>PROJECT LOCATION:</b>	<b>2572 Briers North Dr</b>
<b>DATE ESTIMATE PREPARED:</b>	<b>9-Jun-21</b>
<b>ESTIMATE PREPARED BY:</b>	<b>Derek Mierswa</b>
<b>ESTIMATE AMOUNT:</b>	<b>\$54,430.75</b>
<b>20 % CONTINGENCY:</b>	<b>\$10,886.15</b>
<b>ESTIMATE GRAND TOTAL:</b>	<b>\$65,316.90</b>

<b>Pre-Lining Work:</b>	
	Pre CCTV and Cleaning
	Raise buried junction box to grade
	Sink hole repair
	Invert repair in pipe
<b>Lining Work:</b>	
	1"x159 LF of EcoCast
<b>Post Lining Work:</b>	
	Post CCTV
	Pipe end seals
	Inverts in all structures
	Sodding

ITEM #	Description	Unit	Unit Price	Quantity	Total Costs
	<b>General Conditions</b>				
1	Mobilization	EA	\$ 2,000.00	1.00	\$ 2,000.00
	<b>Traffic Control</b>				
5	Traffic Control Minor 2 - Includes Cones and Signage	DA	\$ 1,850.00	1.00	\$ 1,850.00
	<b>TV Inspection and Jet-Vac Cleaning</b>				
7	CCTV Storm (w/ DVD & Report)	LF	\$ 2.50	159.00	\$ 397.50
	<b>Storm Cleaning (less than 25% full)</b>				
16	36" Pipe - Cleaning less than 25% full	LF	\$ 6.75	159.00	\$ 1,073.25
	<b>Internal Point Repair</b>				
134	36" Diameter	LF	\$ 200.00	10.00	\$ 2,000.00
	<b>Misc &amp; Special Structures/Components</b>				
207	Cast in Place Top w/R/C	CY	\$ 1,150.00	1.00	\$ 1,150.00
209	Invert Installation, 4' Dia	EA	\$ 275.00	2.00	\$ 550.00
	<b>Grout Connection to Structure</b>				
234	Grout all jnt, crcks & holes (8'deep or less)	EA	\$ 500.00	3.00	\$ 1,500.00
	<b>Spin Cast Lining</b>				
274	36" Cent Spin Cast Lining	LF	\$ 255.00	159.00	\$ 40,545.00
	<b>Earthwork &amp; Grading</b>				
368	Haul-In Structural Fill Material	CY	\$ 50.00	50.00	\$ 2,500.00

	<b>Erosion Control</b>				
389	Sodding Complete - Bermuda	SY	\$ 5.75	20.00	\$ 115.00
	<b>Miscellaneous Items</b>				
434	Adjust Manhole Cover in Soil ( complete, includes removal or modificaiton of old structure top)	EA	\$ 750.00	1.00	\$ 750.00
	<b>TOTAL ESTIMATE</b>				<b>\$54,430.75</b>