

MEMORANDUM

To: Mayor and City Council

From: Carl Thomas, Stormwater Manager

Date: March 22nd, 2021

Subject: Funding Authorization for 1751 Ball Mill Court Stormwater Repairs

ITEM DESCRIPTION

Approval of Funding for Stormwater Pipe Repairs at 1751 Ball Mill Ct. Estimated cost, plus 20% contingency, is \$82,236.90. .

BACKGROUND

Structural deficiencies to the storm system on Ball Mill Court were identified responding to a sinkhole on 10/9/2020. The entire pipe system is approximately 43.5 years old and in poor condition. CCTV footage discovered severe corrosion with visible holes and offset joints. Recommended repairs include:

- Repair 325 LF of 18" and 30" Corrugated Metal Pipe (CMP) with cured in place pipe
- Replace 65 LF of 18" CMP
- Uncover two buried junction boxes, raise to grade, add ring and cover
- Remove/Replace 60 SY section of driveway

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

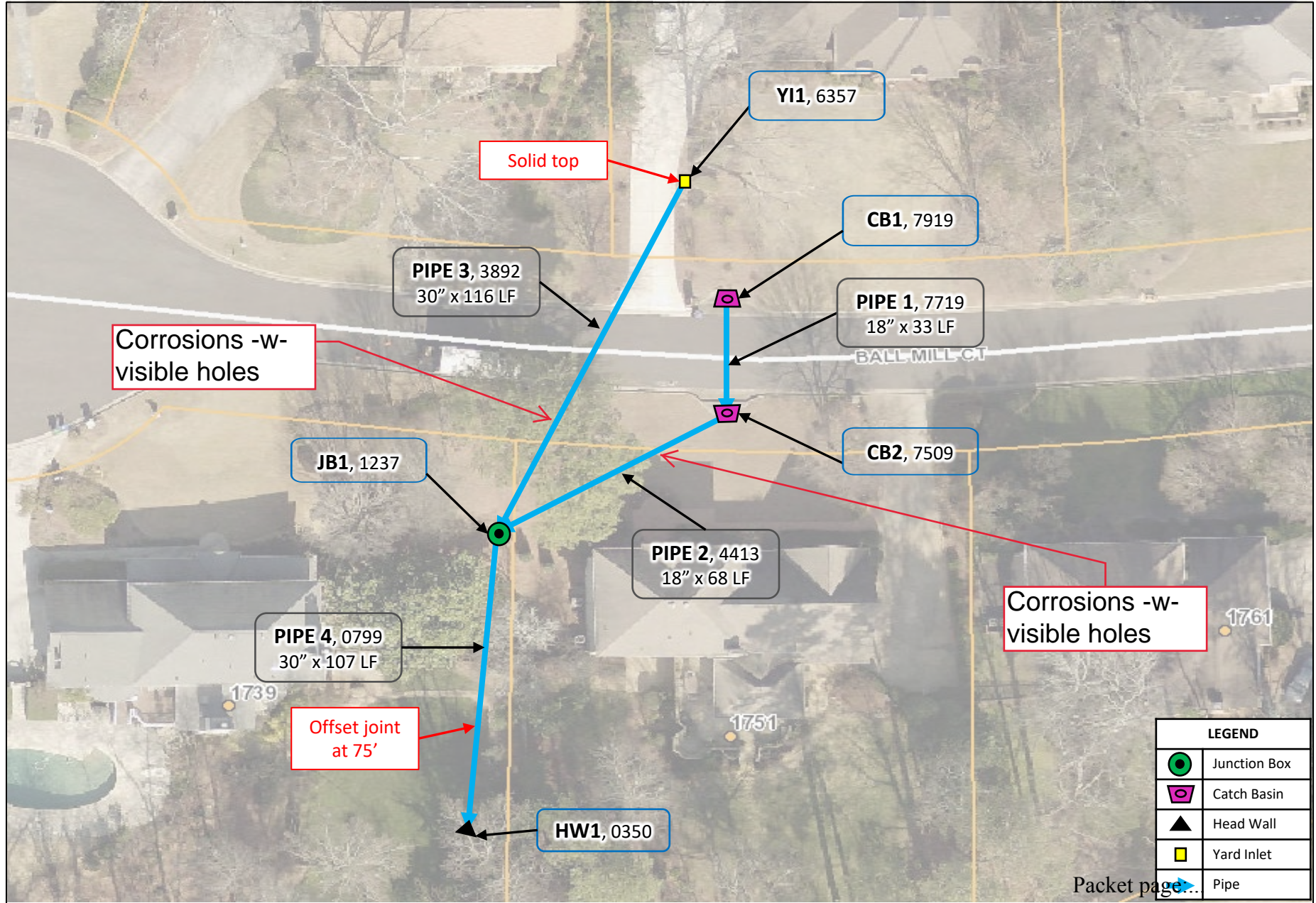
RECOMMENDED ACTION

Staff recommends approving \$82,236.90 in funding for Stormwater Pipe Repairs at 1751 Ball Mill Ct.

SINKHOLE FORMING AT BURIED JUNCTION BOX







IPR Southeast LLC	
ESTIMATE - RFP 18-04 2018 STANDBY STORMWATER REPAIR UNIT CONTRACT	
PROJECT LOCATION:	1751 Ball Mill Ct
DATE ESTIMATE PREPARED:	9-Mar-21
ESTIMATE PREPARED BY:	Derek Mierswa
ESTIMATE AMOUNT:	\$68,530.75
20 % CONTINGENCY:	\$13,706.15
ESTIMATE GRAND TOTAL:	\$82,236.90

Pre-Lining Work:	
	Pre CCTV and Cleaning
	Uncover 2x buried junction box and raise to grade
Lining Work:	
	CIPP Lining - 101 LF of 18"x9.0mm
	CIPP Lining - 223 LF of 30"x13.5mm
Post Lining Work:	
	Post CCTV
	Pipe end seals
	Driveway restoration
	Landscape restoration

ITEM #	Description	Unit	Unit Price	Quantity	Total Costs
General Conditions					
1	Mobilization	EA	\$ 2,000.00	2.00	\$ 4,000.00
Traffic Control					
5	Traffic Control Minor 2 - Includes Cones and Signage	DA	\$ 1,850.00	1.00	\$ 1,850.00
TV Inspection and Jet-Vac Cleaning					
7	CCTV Storm (w/ DVD & Report)	LF	\$ 2.50	324.00	\$ 810.00
Storm Cleaning (less than 25% full)					
12	18" Pipe - Cleaning less 25% full	LF	\$ 4.75	101.00	\$ 479.75
15	30" Pipe - Cleaning less than 25% full	LF	\$ 6.00	223.00	\$ 1,338.00
Round Precast Manholes					
192	5' Round Precast MH w/ Ring & Cover	VF	\$ 550.00	2.00	\$ 1,100.00
Misc & Special Structures/Components					
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	3.00	\$ 825.00
210	Invert Installation, 5' Dia	EA	\$ 375.00	1.00	\$ 375.00
213	Uncover Buried JB (<4')	EA	\$ 400.00	2.00	\$ 800.00
Grout Connection to Structure					
222	18" Grout Each End to Structure	EA	\$ 185.00	4.00	\$ 740.00
226	30" Grout Each End to Structure	EA	\$ 240.00	4.00	\$ 960.00
234	Grout all jnt, crcks & holes (8'deep or less)	EA	\$ 500.00	5.00	\$ 2,500.00

	Lining Requirements				
	CIPP (12' or less in depth)				
	Includes Pre and Post TV during lining				
238	18" - 8.0mm (.315")	LF	\$ 65.00	101.00	\$ 6,565.00
241	30" - 12.5mm (.4921")	LF	\$ 130.00	223.00	\$ 28,990.00
255	Add Thickness Per 1.5mm -18"	LF	\$ 3.00	101.00	\$ 303.00
258	Add Thickness Per 1.5mm -30"	LF	\$ 5.00	223.00	\$ 1,115.00
	Inversion Setup				
270	Inversion Setup Charge 15-36" CIPP	EA	\$ 900.00	2.00	\$ 1,800.00
	Cast in Place Concrete				
337	Driveway 6" Concrete (Comm. w/6" of GAB incl.)	SY	\$ 60.00	80.00	\$ 4,800.00
	Earthwork & Grading				
365	Clear & Grubbing	SY	\$ 12.50	2.00	\$ 25.00
368	Haul-In Structural Fill Material	CY	\$ 50.00	30.00	\$ 1,500.00
370	Finish Grading	SY	\$ 5.00	180.00	\$ 900.00
	Erosion Control				
389	Sodding Complete - Bermuda	SY	\$ 5.75	100.00	\$ 575.00
393	Pine Straw	SY	\$ 2.50	100.00	\$ 250.00
	Miscellaneous Items				
410	Removal Existing Pipe all Types and Sizes	LF	\$ 65.00	10.00	\$ 650.00
411	Saw Cut Existing Pavements	LF	\$ 5.00	40.00	\$ 200.00
412	Stone #57	Ton	\$ 42.00	15.00	\$ 630.00
415	Roll-Off Dumpster	Day	\$ 850.00	3.00	\$ 2,550.00
434	Adjust Manhole Cover in Soil (complete, includes removal or modifcaiton of old structure top)	EA	\$ 750.00	1.00	\$ 750.00
	TOTAL ESTIMATE				\$68,530.75