

MEMORANDUM

To: Mayor and City Council

From: Carl Thomas

Date: September 11, 2018

Subject: Memorandum - FUNDING AUTHORIZATION FOR 1266 REDFIELD RIDGE STORMWATER REPAIRS

ITEM DESCRIPTION

Approval of Funding for Stormwater Pipe Repairs at **1266 Redfield Ridge**. Estimate for the repairs is **\$112,415.33**, which includes a 10% contingency.

BACKGROUND

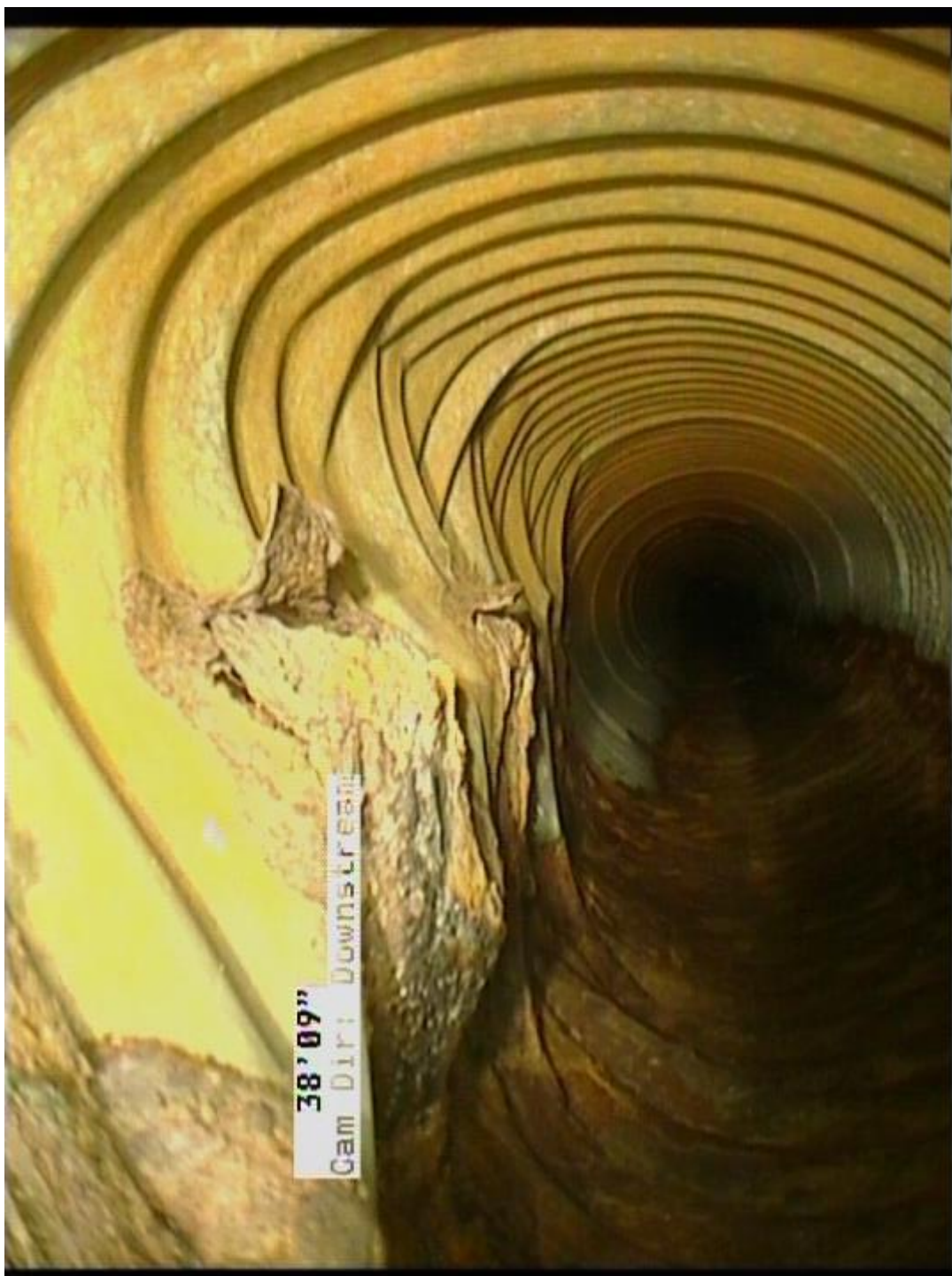
Structural impairments were identified during routine infrastructure inspections on 7/11/2017 using field & CCTV inspections and require:

- Repair 20-50 feet of deformed pipe
- Traffic Control
- Tree removal
- Lining of 123 linear feet of 18" Corrugated Metal Pipe with cured in place pipe
- Lining of 595 linear feet of 24" Corrugated Metal Pipe with cured in place pipe

The cost of the 2 stormwater projects presented to Council this evening are \$236,028.38. Adding this expenditure to remaining 2018 Stormwater Repairs & Maintenance Budget would result in a \$114,415 deficit. However, the ending balance of Stormwater Reserve fund in 2017 was \$2,444,892. In order to account for emergency repairs, the Public Works Department typically maintains a minimum balance \$1,000,000 in Stormwater Reserve Fund. Due to the availability of funding in the Stormwater Reserve Fund and the need for the project, staff recommends funding this project with the Stormwater Reserve Fund.

RECOMMENDED ACTION

Staff recommends approving \$112,415.33 in funding for Stormwater Pipe Repairs at 1266 Redfield Ridge from the Stormwater Reserve Fund.



SEVERE DEFORMITY IN PIPE



INVERT FAILURE IN PIPE

IPR Southeast LLC	
ESTIMATE - RFP 18-04 2018 STANDBY STORMWATER REPAIR UNIT CONTRACT	
PROJECT LOCATION:	1266 Redfield Ridge Dunwoody, GA 30338
DATE ESTIMATE PREPARED:	1 August, 2018
ESTIMATE PREPARED BY:	Dan Guse
ESTIMATE AMOUNT:	\$102,195.75
10 % CONTINGENCY:	\$10,219.58
ESTIMATE GRAND TOTAL:	\$112,415.33

Pre-Lining Work:	
	Pre CCTV and Cleaning
	Remove and Replace Top - Install Man Entry Top for 10107 - Include Fence Removal and Replace - Restoration
	Remove and Replace Top - Install Man Entry Top for 10105 - Include Fence Removal and Replace - Restoration
	Point Repair between 10106 and 10107 - 20' to 50'
	Clean Concrete out of Catch basin 10103
Lining Work:	
	123 LF X 18" x 8.0 mm CIPP
	595 LF X 24" X 10.5 mm CIPP
Post Lining Work:	
	Post CCTV
	Restoration at 1266 Redfield Ridge after Point Repair
	Restoration after replacing junction box tops
	Seal Pipe Ends
	Invert Installation (5)

ITEM #	Description	Unit	Unit Price	Quantity	Total Costs
General Conditions					
1	Mobilization	EA	\$ 2,000.00	1.00	\$ 2,000.00
2	Out of Scope Work, Foreman	HR	\$ 85.00	10.00	\$ 850.00
3	Out of Scope Work, Laborer	HR	\$ 70.00	10.00	\$ 700.00
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	718.00	\$ 1,795.00
Storm Cleaning (less than 25% full)					

12	18" Pipe - Cleaning less 25% full	LF	\$ 4.75	128.00	\$ 608.00
14	24" Pipe - Cleaning less than 25% full	LF	\$ 5.50	590.00	\$ 3,245.00
	Spiral Rib CMP				
	includes excavation, backfill, & compaction				
47	18" SRCMP	LF	\$ 30.00	30.00	\$ 900.00
	Misc & Special Structures/Components				
198	5' Dia Pedestal Top w MH R/C	EA	\$ 1,100.00	2.00	\$ 2,200.00
209	Invert Installation, 4' Dia	EA	\$ 275.00	5.00	\$ 1,375.00
	Grout Connection to Structure				
222	18" Grout Each End to Structure	EA	\$ 185.00	4.00	\$ 740.00
224	24" Grout Each End to Structure	EA	\$ 225.00	4.00	\$ 900.00
	Lining Requirements				
	CIPP (12' or less in depth)				
	Includes Pre and Post TV during lining				
238	18" - 8.0mm (.315")	LF	\$ 65.00	128.00	\$ 8,320.00
240	24" - 10.0mm (.3937")	LF	\$ 93.00	590.00	\$ 54,870.00
255	Add Thickness Per 1.5mm -18"	LF	\$ 3.00	128.00	\$ 384.00
257	Add Thickness Per 1.5mm -24"	LF	\$ 3.50	590.00	\$ 2,065.00
	Inversion Setup				
270	Inversion Setup Charge 15-36" CIPP	EA	\$ 900.00	4.00	\$ 3,600.00
	Earthwork & Grading				
362	Tree Removal 6"- 12"	EA	\$ 550.00	3.00	\$ 1,650.00
365	Clear & Grubbing	SY	\$ 12.50	100.00	\$ 1,250.00
368	Haul-In Structural Fill Material	CY	\$ 50.00	20.00	\$ 1,000.00
370	Finish Grading	SY	\$ 5.00	100.00	\$ 500.00
372	Debris Removal	CY	\$ 60.00	20.00	\$ 1,200.00
	Erosion Control				
389	Sodding Complete - Bermuda	SY	\$ 5.75	125.00	\$ 718.75
392	Topsoil Complete	CY	\$ 30.00	20.00	\$ 600.00
393	Pine Straw	SY	\$ 2.50	100.00	\$ 250.00
396	Tree Replacment 2-1/2" Hardwood, Installed	EA	\$ 275.00	3.00	\$ 825.00
402	Shrub Replacement: 7 gallon, installed	EA	\$ 150.00	10.00	\$ 1,500.00
	Miscellaneous Items				
409	Removal of Existing Drainage Structure	EA	\$ 850.00	2.00	\$ 1,700.00
410	Removal Existing Pipe all Types and Sizes	LF	\$ 65.00	30.00	\$ 1,950.00
412	Stone #57	Ton	\$ 42.00	5.00	\$ 210.00
424	Temporary 4' Chain Link Fence	LF	\$ 22.00	20.00	\$ 440.00
425	Rem/Rep 4' Galvanized Chain Link Fence Residential	LF	\$ 25.00	20.00	\$ 500.00
430	Rem/Rep Existing 6' Wood Fence Residential	LF	\$ 75.00	20.00	\$ 1,500.00
	TOTAL ESTIMATE				\$102,195.75



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MEMORANDUM

To: Mayor and City Council

From: Carl Thomas

Date: September 11, 2018

Subject: Memorandum - FUNDING AUTHORIZATION FOR 1811 VERMACK COURT STORMWATER REPAIRS

ITEM DESCRIPTION

Approval of Funding for Stormwater Pipe Repairs at **1811 Vermack Court**. Estimate for the repairs is **\$123,613.05**, which includes a 10% contingency.

BACKGROUND

Structural impairments were identified after a citizen called about a sinkhole on April 30, 2018. The last inspection by city staff was on 2/13/2013. Pipes were reported in poor condition but no sinkholes were observed at that time. Repairs were identified using CCTV inspections and require:

- Invert repair with flowable fill
- Sinkhole repair
- Repair and grout work on 2 storm manholes
- Lining of 474 linear feet of 30" Corrugated Metal Pipe with cured in place pipe
- Lining of 159 linear feet of 24" Corrugated Metal Pipe with cured in place pipe
- Lining of 49 linear feet of 12" Pipe with cured in place pipe

The cost of the 2 stormwater projects presented to Council this evening are \$236,028.38. Adding this expenditure to remaining 2018 Stormwater Repairs & Maintenance Budget would result in a \$114,415 deficit. However, the ending balance of Stormwater Reserve fund in 2017 was \$2,444,892. In order to account for emergency repairs, the Public Works Department typically maintains a minimum balance \$1,000,000 in Stormwater Reserve Fund. Due to the availability of funding in the Stormwater Reserve Fund and the need for the project, staff recommends funding this project with the Stormwater Reserve Fund.

RECOMMENDED ACTION

Staff recommends approving \$123,613.05 in funding for Stormwater Pipe Repairs at 1811 Vermack Court from the Stormwater Reserve Fund.



MULTIPLE SINKHOLES FORMING AROUND INLET



INVERT FAILURE IN PIPE

IPR Southeast LLC	
ESTIMATE - RFP 18-04 2018 STANDBY STORMWATER REPAIR UNIT CONTRACT	
PROJECT LOCATION:	1811 Vermack Court Dunwoody, GA 30338
DATE ESTIMATE PREPARED:	1 August, 2018
ESTIMATE PREPARED BY:	Dan Guse
ESTIMATE AMOUNT:	\$112,375.50
10 % CONTINGENCY:	\$11,237.55
ESTIMATE GRAND TOTAL:	\$123,613.05

Pre-Lining Work:	
	Pre CCTV and Cleaning
	Locate and Raise Buried Junction Boxes - Install New Man Entry Top/Manhole Frame and Cover- 01395
	Locate and Raise Buried Junction Boxes - Install New Manhole with Frame and Cover - 07019
	Install Flowable Paved Pipe Invert
	Remove concrete in caatch basin inverts
Lining Work:	
	474 LF X 30" X 13.5 mm CIPP
	159 LF X 24" X 10.5 mm CIPP
	49 LF X 14/12/10" x 7.5 mm CIPP
Post Lining Work:	
	Post CCTV
	Seal Pipe Ends
	Inver Installation (4)
	Restoration After Raising Junction Boxes, Sink Hole Repairs

ITEM #	Description	Unit	Unit Price	Quantity	Total Costs
	General Conditions				
1	Mobilization	EA	\$ 2,000.00	1.00	\$ 2,000.00
2	Out of Scope Work, Foreman	HR	\$ 85.00	5.00	\$ 425.00
3	Out of Scope Work, Laborer	HR	\$ 70.00	10.00	\$ 700.00
	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	682.00	\$ 1,705.00

Storm Cleaning (less than 25% full)					
10	12" Pipe - Cleaning less than 25% full	LF	\$ 4.00	49.00	\$ 196.00
14	24" Pipe - Cleaning less than 25% full	LF	\$ 5.50	159.00	\$ 874.50
15	30" Pipe - Cleaning less than 25% full	LF	\$ 6.00	474.00	\$ 2,844.00
Flowable Paved Pipe Invert					
123	24" Diameter	LF	\$ 35.00	25.00	\$ 875.00
124	30" Diameter	LF	\$ 40.00	50.00	\$ 2,000.00
Round Precast Manholes					
191	4' Round Precast MH w/ Ring & Cover	VF	\$ 455.00	8.00	\$ 3,640.00
Misc & Special Structures/Components					
209	Invert Installation, 4' Dia	EA	\$ 275.00	5.00	\$ 1,375.00
213	Uncover Buried JB (<4')	EA	\$ 400.00	2.00	\$ 800.00
Grout Connection to Structure					
220	12" Grout Each End to Structure	EA	\$ 150.00	2.00	\$ 300.00
224	24" Grout Each End to Structure	EA	\$ 225.00	4.00	\$ 900.00
226	30" Grout Each End to Structure	EA	\$ 240.00	6.00	\$ 1,440.00
Lining Requirements					
CIPP (12' or less in depth)					
Includes Pre and Post TV during lining					
236	12" - 7.5 mm (.2953")	LF	\$ 65.00	49.00	\$ 3,185.00
240	24" - 10.0mm (.3937")	LF	\$ 93.00	159.00	\$ 14,787.00
241	30" - 12.5mm (.4921")	LF	\$ 130.00	474.00	\$ 61,620.00
257	Add Thickness Per 1.5mm -24"	LF	\$ 3.50	159.00	\$ 556.50
258	Add Thickness Per 1.5mm -30"	LF	\$ 5.00	474.00	\$ 2,370.00
Inversion Setup					
270	Inversion Setup Charge 15-36" CIPP	EA	\$ 900.00	4.00	\$ 3,600.00
Earthwork & Grading					
368	Haul-In Structural Fill Material	CY	\$ 50.00	20.00	\$ 1,000.00
370	Finish Grading	SY	\$ 5.00	30.00	\$ 150.00
372	Debris Removal	CY	\$ 60.00	20.00	\$ 1,200.00
Erosion Control					
386	Seed & Straw (Permanent Grassing)	SY	\$ 2.00	30.00	\$ 60.00
389	Sodding Complete - Bermuda	SY	\$ 5.75	30.00	\$ 172.50
393	Pine Straw	SY	\$ 2.50	20.00	\$ 50.00
Miscellaneous Items					
409	Removal of Existing Drainage Structure	EA	\$ 850.00	2.00	\$ 1,700.00
TOTAL ESTIMATE					\$112,375.50