



4800 Ashford Dunwoody Road
Dunwoody, Georgia 30338
dunwoodyga.gov | 678.382.6700

MEMORANDUM

To: Mayor and City Council

From: Carl Thomas, Stormwater Manager

Date: August 12th, 2019

Subject: Memorandum – Funding Authorization for 5134 Meadowlake Lane Stormwater Repairs

ITEM DESCRIPTION

Approval of Funding for Stormwater Pipe Repairs at **5134 Meadowlake Lane**. Estimated cost, plus 20% contingency, is **\$70,275.00**.

BACKGROUND

Structural deficiencies to the storm system on Meadowlake Lane were identified during a service request inspection in January 2019. The pipes are approximately 48 years old and in poor condition. CCTV footage revealed severe corrosion with multiple voids in the invert. Recommended repairs include:

- Lining approximately 350 LF of 24" Corrugated Metal Pipe
- Locate and Raise 1 buried junction box
- Invert Repair at downstream end - 40LF of 24"
- Dig & Replace separated section of pipe

If approved by Council, this project will be funded from the 2019 Stormwater Repairs & Maintenance Budget.

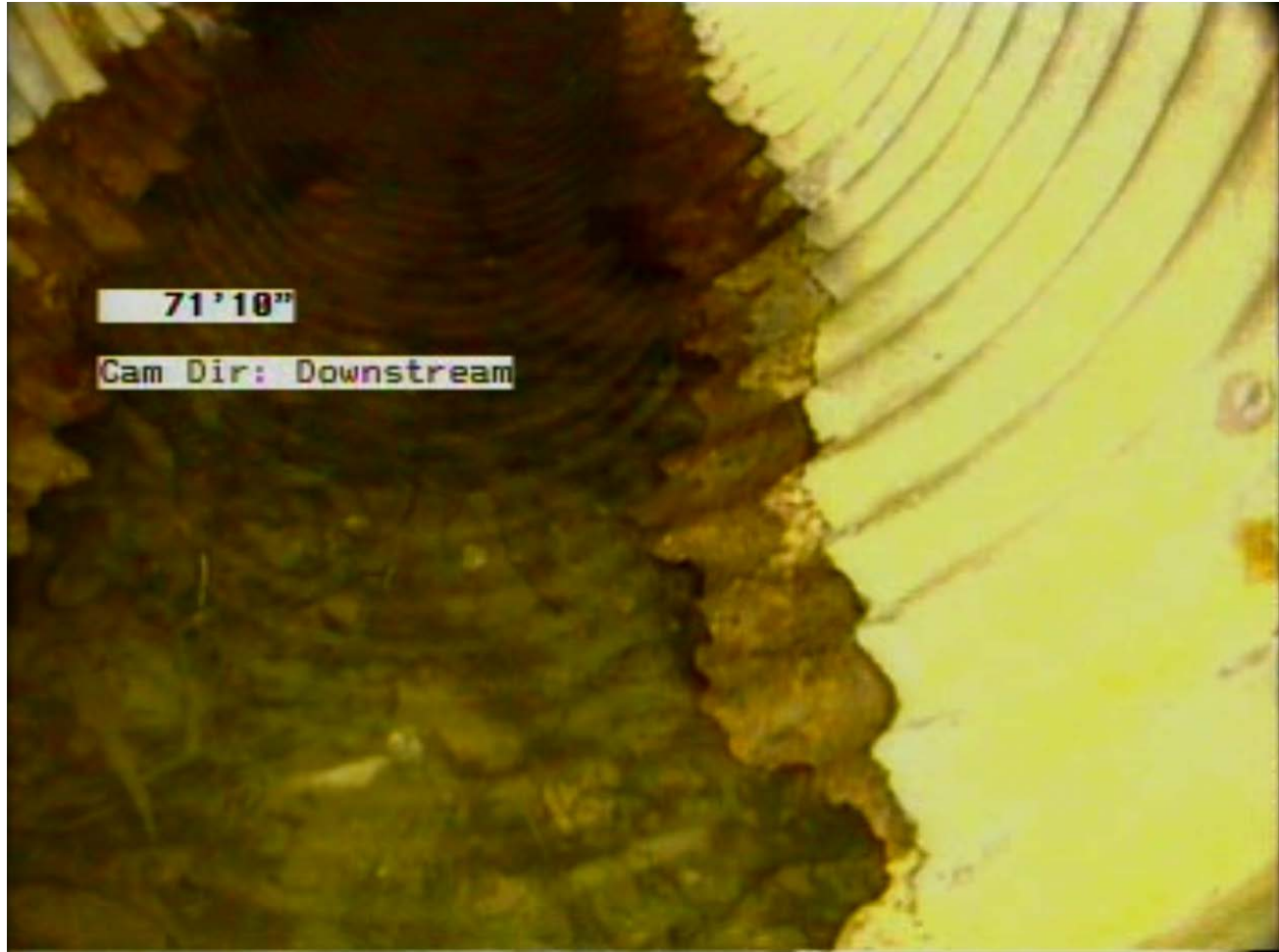
RECOMMENDED ACTION

Staff recommends approving \$70,275.00 in funding for Stormwater Pipe Repairs at 5134 Meadowlake Lane.

PIPE SEPARATION 40 FEET FROM OUTLET



INVERT CORROSION WITH LARGE VOIDS



IPR Southeast LLC	
ESTIMATE - RFP 18-04 2018 STANDBY STORMWATER REPAIR UNIT CONTRACT	
PROJECT LOCATION:	5134 Meadowlake Lane Dunwoody, GA 30338
DATE ESTIMATE PREPARED:	18-Jul-19
ESTIMATE PREPARED BY:	Daniel Guse
ESTIMATE AMOUNT:	\$58,562.50
20 % CONTINGENCY:	\$11,712.50
ESTIMATE GRAND TOTAL:	\$70,275.00

Pre-Lining Work:	
	CCTV and Cleaning
	Locate and Raise 1 buried junction box - Install new top with man access
	Invert Repair at downstream end - 40LF of 24"
	Internal point repair to remove bent pipe and roof drain connection
	Invert Repair at upstream end near headwall
Lining Work:	
	350 LF of 24" pipe x 10.5 mm
Post Lining Work:	
	Restoration
	Pipe End Seals
	New Inverts in two Structures
	Post CCTV

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	30.00	\$ 2,100.00
	Traffic Control				
5	Traffic Control Minor 2 - Includes Cones and Signage	DA	\$ 1,850.00	2.00	\$ 3,700.00
	TV Inspection and Jet-Vac Cleaning				
7	CCTV Storm (w/ DVD & Report)	LF	\$ 2.50	350.00	\$ 875.00
	Storm Cleaning (less than 25% full)				

14	24" Pipe - Cleaning less than 25% full	LF	\$ 5.50	250.00	\$ 1,375.00
	Storm Cleaning (25% or greater)				
31	24" Pipe - Cleaning 25% or greater	LF	\$ 5.50	100.00	\$ 550.00
	Flowable Paved Pipe Invert				
123	24" Diameter	LF	\$ 35.00	80.00	\$ 2,800.00
	Internal Point Repair				
132	24" Diameter	LF	\$ 300.00	3.00	\$ 900.00
	Misc & Special Structures/Components				
198	5' Dia Pedestal Top w MH R/C	EA	\$ 1,100.00	1.00	\$ 1,100.00
209	Invert Installation, 4' Dia	EA	\$ 275.00	1.00	\$ 275.00
210	Invert Installation, 5' Dia	EA	\$ 375.00	1.00	\$ 375.00
213	Uncover Buried JB (<4')	EA	\$ 400.00	1.00	\$ 400.00
	Grout Connection to Structure				
224	24" Grout Each End to Structure	EA	\$ 225.00	6.00	\$ 1,350.00
	Lining Requirements				
	CIPP (12' or less in depth)				
	Includes Pre and Post TV during lining				
240	24" - 10.0mm (.3937")	LF	\$ 93.00	350.00	\$ 32,550.00
257	Add Thickness Per 1.5mm -24"	LF	\$ 3.50	350.00	\$ 1,225.00
	Inversion Setup				
270	Inversion Setup Charge 15-36" CIPP	EA	\$ 900.00	2.00	\$ 1,800.00
	Earthwork & Grading				
369	Haul-Off Soil Material	CY	\$ 50.00	20.00	\$ 1,000.00
370	Finish Grading	SY	\$ 5.00	20.00	\$ 100.00
	Erosion Control				
382	Install & Remove Orange Tree Save Fence	LF	\$ 30.00	20.00	\$ 600.00
386	Seed & Straw (Permanent Grassing)	SY	\$ 2.00	20.00	\$ 40.00
389	Sodding Complete - Bermuda	SY	\$ 5.75	30.00	\$ 172.50
392	Topsoil Complete	CY	\$ 30.00	25.00	\$ 750.00
393	Pine Straw	SY	\$ 2.50	30.00	\$ 75.00
	Miscellaneous Items				
409	Removal of Existing Drainage Structure	EA	\$ 850.00	1.00	\$ 850.00
434	Adjust Manhole Cover in Soil (complete, includes removal or modifcaiton of old structure top)	EA	\$ 750.00	1.00	\$ 750.00
	TOTAL ESTIMATE				\$58,562.50



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MEMORANDUM

To: Mayor and City Council

From: Carl Thomas, Stormwater Manager

Date: August 12th, 2019

Subject: **Memorandum – Funding Authorization for 4616 Amberly Court Stormwater Repairs**

ITEM DESCRIPTION

Approval of Funding for Stormwater Pipe Repairs at **4616 Amberly Court**. Estimated cost, plus 20% contingency, is **\$64,288.50**.

BACKGROUND

Structural deficiencies to the storm system on Amberly Court were identified when a citizen called the City about a sinkhole on their property in February 2019. The pipes are approximately 51 years old and in poor condition. CCTV footage revealed severe corrosion with multiple voids in the invert. Recommended repairs include:

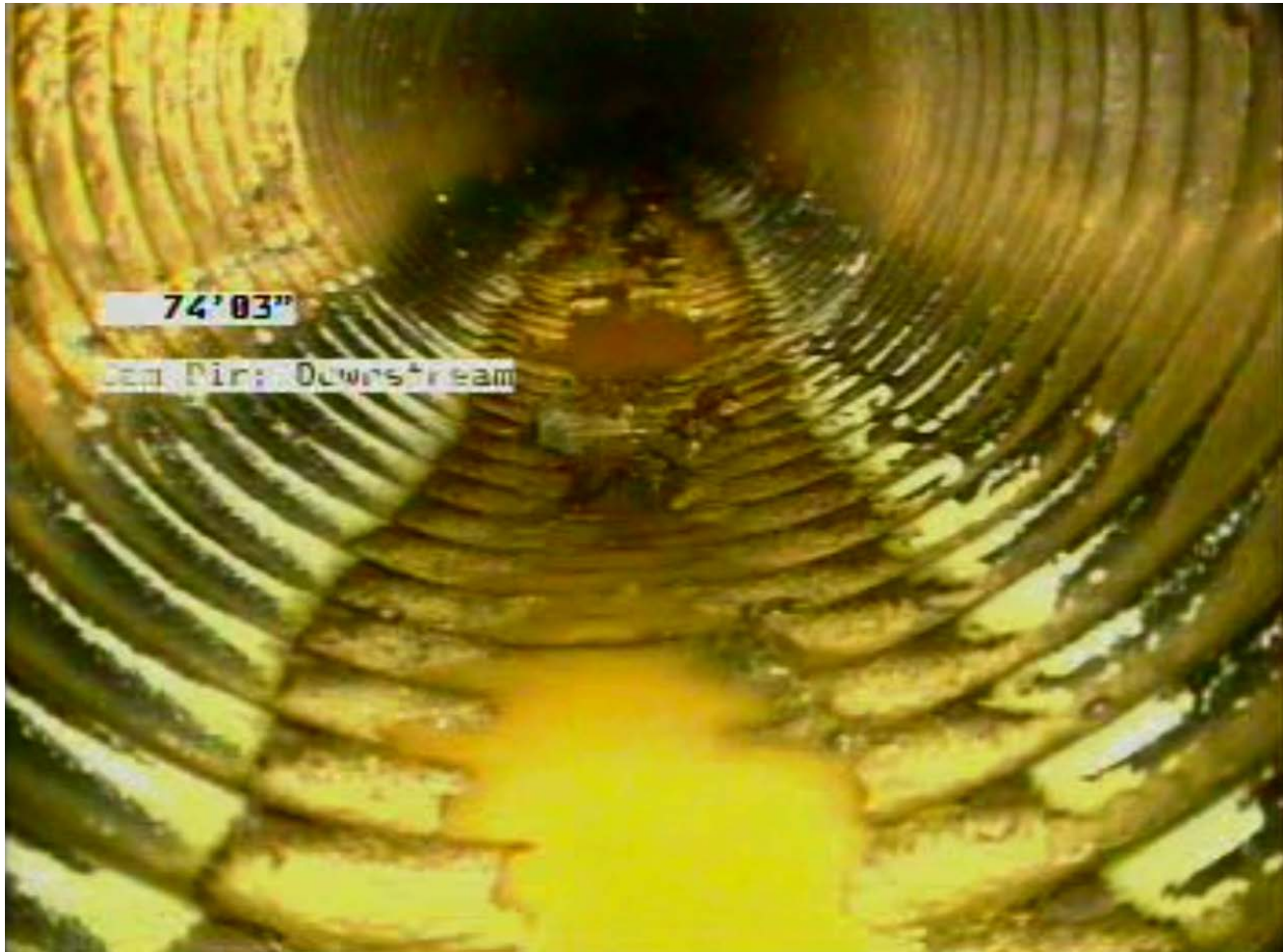
- Lining approximately 375 LF of 18" Corrugated Metal Pipe
- Locate and Raise 1 buried junction box
- Invert Repair of catch basin
- Dig & Replace collapsed section of pipe

If approved by Council, this project will be funded from the 2019 Stormwater Repairs & Maintenance Budget.

RECOMMENDED ACTION

Staff recommends approving \$64,288.50 in funding for Stormwater Pipe Repairs at 4616 Amberly Court.

INVERT CORROSION WITH VISIBLE HOLES



SEPARATED PIPE UNDERNEATH AMBERLY COURT



IPR Southeast LLC	
ESTIMATE - RFP 18-04 2018 STANDBY STORMWATER REPAIR UNIT CONTRACT	
PROJECT LOCATION:	4616 Amberly Court Dunwoody, GA 30338
DATE ESTIMATE PREPARED:	17-Jul-19
ESTIMATE PREPARED BY:	Daniel Guse
ESTIMATE AMOUNT:	\$53,573.75
20 % CONTINGENCY:	\$10,714.75
ESTIMATE GRAND TOTAL:	\$64,288.50

Pre-Lining Work:	
	CCTV and Cleaning - Including specialty cleaning to remove rocks and roots
	Locate and Raise 1 buried junction box
	Remove concrete from invert of catch basin
	Pipe Repair at downstream junction box
	Remove fence and drain pipe at upstream headwall
	Point Repair to fix damaged pipe in street - approx 10 feet
Lining Work:	
	375 LF of 18" pipe x 9.0 mm
Post Lining Work:	
	Restoration
	Pipe End Seals
	New Inverts in two Structures
	Post CCTV

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	30.00	\$ 2,100.00
	Traffic Control				
5	Traffic Control Minor 2 - Includes Cones and Signage	DA	\$ 1,850.00	2.00	\$ 3,700.00
	TV Inspection and Jet-Vac Cleaning				
7	CCTV Storm (w/ DVD & Report)	LF	\$ 2.50	375.00	\$ 937.50
	Storm Cleaning (less than 25% full)				

12	18" Pipe - Cleaning less 25% full	LF	\$ 4.75	375.00	\$ 1,781.25
	Special Storm Line Cleaning				
	Roots, Rocks, Debris				
44	12" to 36" Pipe	LF	\$ 18.00	60.00	\$ 1,080.00
	Spiral Rib CMP				
	includes excavation, backfill, & compaction				
47	18" SRCMP	LF	\$ 30.00	10.00	\$ 300.00
	Square Brick Manholes				
183	5' Square Brick MH w/ Ring & Cover	VF	\$ 550.00	4.00	\$ 2,200.00
	Misc & Special Structures/Components				
209	Invert Installation, 4' Dia	EA	\$ 275.00	2.00	\$ 550.00
213	Uncover Buried JB (<4')	EA	\$ 400.00	1.00	\$ 400.00
	Grout Connection to Structure				
222	18" Grout Each End to Structure	EA	\$ 185.00	6.00	\$ 1,110.00
	Lining Requirements				
	CIPP (12' or less in depth)				
	Includes Pre and Post TV during lining				
238	18" - 8.0mm (.315")	LF	\$ 65.00	375.00	\$ 24,375.00
255	Add Thickness Per 1.5mm -18"	LF	\$ 3.00	375.00	\$ 1,125.00
	Inversion Setup				
270	Inversion Setup Charge 15-36" CIPP	EA	\$ 900.00	2.00	\$ 1,800.00
	Road Restoration				
355	Graded Aggregate Base	Ton	\$ 75.00	8.00	\$ 600.00
357	Asphaltic Concrete Binder Course	Ton	\$ 125.00	6.00	\$ 750.00
358	Asphaltic Concrete Surface Course	Ton	\$ 135.00	6.00	\$ 810.00
359	Tack Coat	Gal	\$ 15.00	6.00	\$ 90.00
360	2" Asph. Con. Hot Mix for Trench Cap	Ton	\$ 135.00	8.00	\$ 1,080.00
	Earthwork & Grading				
365	Clear & Grubbing	SY	\$ 12.50	10.00	\$ 125.00
366	Channel Excavation	CY	\$ 10.00	10.00	\$ 100.00
370	Finish Grading	SY	\$ 5.00	10.00	\$ 50.00
	Erosion Control				
373	Stone Rip Rap Type I in Place	SY	\$ 60.00	6.00	\$ 360.00
382	Install & Remove Orange Tree Save Fence	LF	\$ 30.00	50.00	\$ 1,500.00
389	Sodding Complete - Bermuda	SY	\$ 5.75	20.00	\$ 115.00
393	Pine Straw	SY	\$ 2.50	30.00	\$ 75.00
	Miscellaneous Items				
407	Debris Removal, Tandem Dump Truck	Load	\$ 800.00	1.00	\$ 800.00
410	Removal Existing Pipe all Types and Sizes	LF	\$ 65.00	10.00	\$ 650.00
411	Saw Cut Existing Pavements	LF	\$ 5.00	30.00	\$ 150.00
412	Stone #57	Ton	\$ 42.00	5.00	\$ 210.00

425	Rem/Rep 4' Galvanized Chain Link Fence Residential	LF	\$ 25.00	20.00	\$ 500.00
429	Rem/Rep Existing 4' Wood Fence Residential	LF	\$ 65.00	20.00	\$ 1,300.00
	TOTAL ESTIMATE				\$53,573.75