

MEMORANDUM

To: Mayor and City Council

From: Carl Thomas

Date: August 13, 2018

Subject: **FUNDING AUTHORIZATION FOR 1180 WYNTERHALL
LANE STORMWATER REPAIRS**

ITEM DESCRIPTION

Approval of Funding for Stormwater Pipe Repairs at **1180 Wynterhall Lane**. Estimate for the repairs is **\$94,260.93**, which includes a 10% contingency.

BACKGROUND

Structural impairments were identified using field & CCTV inspections and require:

- Removal & replacement of 10 feet of 42" CMP
- Tree removal
- Lining of 235 linear feet of 42" CMP with cured in place pipe

This project will be funded with the 2018 Stormwater Maintenance Budget.

RECOMMENDED ACTION

Staff recommends approving \$94,260.93 in funding for Stormwater Pipe Repairs at 1180 Wynterhall Lane.



Excess debris, and misalignment at headwall



Invert Failure, excess debris in 42" CMP

IPR Southeast LLC	
ESTIMATE - RFP 18-04 2018 STANDBY STORMWATER REPAIR UNIT CONTRACT	
PROJECT LOCATION:	1180 Wynterhall Lane Dunwoody, GA 30338
DATE ESTIMATE PREPARED:	21-Jun-18
ESTIMATE PREPARED BY:	Dan Guse
ESTIMATE AMOUNT:	\$85,691.75
10 % CONTINGENCY:	\$8,569.18
ESTIMATE GRAND TOTAL:	\$94,260.93

Pre-Lining Work:	
	Pre-CCTV and Cleaning
	Remove and Replace 10 LF of 42" pipe at upstream end
	Remove large tree on top of pipe
	Remove 6' wooden privacy fence, clear and grub to get acces to work
	Clearing around junction box 10127 o be able to lift lid
Lining Work:	
	Approximately 235 LF of 42" x 18.0 mm CIPP
Post Lining Work:	
	Post CCTV
	Restoration as Needed
	Replace wooden fence
	Plant bushes and trees as needed
	Sodding
	Catch Basin Inverts and Seal ends of pipe

ITEM #	Description	Unit	Unit Price	Quantity	Total Costs
	General Conditions				
1	Mobilization	EA	\$ 2,000.00	1.00	\$ 2,000.00
	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	235.00	\$ 587.50
	Storm Cleaning (less than 25% full)				
17	42" Pipe - Cleaning less than 25% full	LF	\$ 7.05	235.00	\$ 1,656.75
	Spiral Rib CMP				

	includes excavation, backfill, & compaction				
51	42" SRCMP	LF	\$ 52.00	10.00	\$ 520.00
	Flowable Paved Pipe Invert				
126	42" Diameter	LF	\$ 50.00	20.00	\$ 1,000.00
	Misc & Special Structures/Components				
210	Invert Installation, 5' Dia	EA	\$ 375.00	3.00	\$ 1,125.00
	Grout Connection to Structure				
228	42" Grout Each End to Structure	EA	\$ 250.00	8.00	\$ 2,000.00
	Lining Requirements				
	CIPP (12' or less in depth)				
	Includes Pre and Post TV during lining				
243	42" - 18.0mm (.7087")	LF	\$ 235.00	235.00	\$ 55,225.00
	Inversion Setup				
271	Inversion Setup Charge 42-60" CIPP	EA	\$ 3,500.00	2.00	\$ 7,000.00
	Earthwork & Grading				
364	Tree Removal >23"	EA	\$ 1,500.00	1.00	\$ 1,500.00
365	Clear & Grubbing	SY	\$ 12.50	50.00	\$ 625.00
368	Haul-In Structural Fill Material	CY	\$ 50.00	10.00	\$ 500.00
370	Finish Grading	SY	\$ 5.00	60.00	\$ 300.00
	Erosion Control				
386	Seed & Straw (Permanent Grassing)	SY	\$ 2.00	25.00	\$ 50.00
390	Sodding Complete - Zoyzia	SY	\$ 8.00	80.00	\$ 640.00
392	Topsoil Complete	CY	\$ 30.00	20.00	\$ 600.00
393	Pine Straw	SY	\$ 2.50	25.00	\$ 62.50
396	Tree Replacment 2-1/2" Hardwood, Installed	EA	\$ 275.00	2.00	\$ 550.00
402	Shrub Replacement: 7 gallon, installed	EA	\$ 150.00	5.00	\$ 750.00
	Miscellaneous Items				
406	Connect to Existing Structures	EA	\$ 750.00	1.00	\$ 750.00
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
415	Roll-Off Dumpster	Day	\$ 850.00	1.00	\$ 850.00
430	Rem/Rep Existing 6' Wood Fence Residential	LF	\$ 75.00	30.00	\$ 2,250.00
	TOTAL ESTIMATE				\$85,691.75

MEMORANDUM

To: Mayor and City Council

From: Carl Thomas

Date: August 13, 2018

Subject: **FUNDING AUTHORIZATION FOR 1575 WOMACK ROAD
STORMWATER REPAIRS**

ITEM DESCRIPTION

Approval of Funding for Stormwater Pipe Repairs at 1575 Womack Road. Estimate for the repairs is **\$129,995.80**, which includes a 10% contingency.

BACKGROUND

City staff identified invert failures in multiple sections of corrugated metal pipe via CCTV inspection. Repairs to this stormwater drainage system would require:

- **rehabilitation of 812 linear feet of 18", 24", 30" and 54" CMP with cured in place pipe**
- **traffic control**
- **tree removal**

This project will be funded with the 2018 Stormwater Maintenance Budget.

RECOMMENDED ACTION

Staff recommends approving **\$129,995.80** in funding for Stormwater Pipe Repairs at 1575 Womack Road.



Invert failure of Corrugated Metal Pipe



Trees affecting embankment stability

IPR Southeast LLC	
ESTIMATE - RFP 18-04 2018 STANDBY STORMWATER REPAIR UNIT CONTRACT	
PROJECT LOCATION:	1575 Womack Road Dunwoody, GA 30338
DATE ESTIMATE PREPARED:	26-Jun-18
ESTIMATE PREPARED BY:	Daniel Guse
ESTIMATE AMOUNT:	\$118,178.00
10 % CONTINGENCY:	\$11,817.80
ESTIMATE GRAND TOTAL:	\$129,995.80

Pre-Lining Work:	
	CCTV and Cleaning,
	Invert Repair in 54" pipe
Lining Work:	
	370 LF x 18" x 9.0 mm CIPP
	340 LF x 24" x 10.5 mm CIPP
	32 LF x 30" x 13.5 mm CIPP
	70 LF x 54" x 27 mm CIPP
Post Lining Work:	
	Post CCTV
	Seal ends of pipes
	Invert Restoration

ITEM #	Description	Unit	Unit Price	Quantity	Total Costs
	General Conditions				
1	Mobilization	EA	\$ 2,000.00	1.00	\$ 2,000.00
	Traffic Control				
4	Traffic Control Minor 1- Incl Continuous Crew of 2 Flagmen	DA	\$ 1,650.00	4.00	\$ 6,600.00
	TV Inspection and Jet-Vac Cleaning				
7	CCTV Storm (w/ DVD & Report)	LF	\$ 2.50	812.00	\$ 2,030.00
	Storm Cleaning (less than 25% full)				
12	18" Pipe - Cleaning less 25% full	LF	\$ 4.75	370.00	\$ 1,757.50
14	24" Pipe - Cleaning less than 25% full	LF	\$ 5.50	340.00	\$ 1,870.00
15	30" Pipe - Cleaning less than 25% full	LF	\$ 6.00	32.00	\$ 192.00
19	54" Pipe - Cleaning less than 25% full	LF	\$ 8.55	70.00	\$ 598.50
	Flowable Paved Pipe Invert				

128	60" Diameter	LF	\$ 75.00	20.00	\$ 1,500.00
	Grout Connection to Structure				
222	18" Grout Each End to Structure	EA	\$ 185.00	6.00	\$ 1,110.00
224	24" Grout Each End to Structure	EA	\$ 225.00	2.00	\$ 450.00
226	30" Grout Each End to Structure	EA	\$ 240.00	2.00	\$ 480.00
230	54" Grout Each End to Structure	EA	\$ 350.00	2.00	\$ 700.00
	Lining Requirements				
	CIPP (12' or less in depth)				
	Includes Pre and Post TV during lining				
238	18" - 8.0mm (.315")	LF	\$ 65.00	370.00	\$ 24,050.00
240	24" - 10.0mm (.3937")	LF	\$ 93.00	340.00	\$ 31,620.00
241	30" - 12.5mm (.4921")	LF	\$ 130.00	32.00	\$ 4,160.00
245	54" - 24.0mm (.9449")	LF	\$ 370.00	70.00	\$ 25,900.00
255	Add Thickness Per 1.5mm -18"	LF	\$ 3.00	370.00	\$ 1,110.00
257	Add Thickness Per 1.5mm -24"	LF	\$ 3.50	340.00	\$ 1,190.00
258	Add Thickness Per 1.5mm -30"	LF	\$ 5.00	32.00	\$ 160.00
262	Add Thickness Per 1.5mm -54"	LF	\$ 10.00	140.00	\$ 1,400.00
	Inversion Setup				
270	Inversion Setup Charge 15-36" CIPP	EA	\$ 900.00	4.00	\$ 3,600.00
271	Inversion Setup Charge 42-60" CIPP	EA	\$ 3,500.00	1.00	\$ 3,500.00
	Earthwork & Grading				
362	Tree Removal 6" - 12"	EA	\$ 550.00	4.00	\$ 2,200.00
	TOTAL ESTIMATE				\$118,178.00

MEMORANDUM

To: Mayor and City Council

From: Carl Thomas

Date: August 13, 2018

Subject: **FUNDING AUTHORIZATION FOR 5015 CHESTNUT FOREST LANE STORMWATER REPAIRS**

ITEM DESCRIPTION

Approval of Funding for Stormwater Pipe Repair at 5015 Chestnut Forest Ln. Estimate for the repairs is **\$83,605.50**, which includes a 10% contingency.

BACKGROUND

City staff identified invert and joint failures in multiple sections of corrugated metal pipe via CCTV inspection on 3/18/2018. Repairs to this stormwater drainage system would require:

- **rehabilitation of 390 linear feet of 24" and 30" CMP with cured in place pipe**
- **100 sq yards of sod**
- **Fence removal/replacement**

This project will be funded with the 2018 Stormwater Maintenance Budget.

RECOMMENDED ACTION

Staff recommends approving **\$83,605.50** in funding for Stormwater Pipe Repair at 5015 Chestnut Forest Ln.



Pipe Invert Failure and Visible Hole



Sinkhole Formation Due to Pipe Failure

IPR Southeast LLC	
ESTIMATE - RFP 18-04 2018 STANDBY STORMWATER REPAIR UNIT CONTRACT	
PROJECT LOCATION:	5015 Chestnut Forest Ln Dunwoody, GA 30360
DATE ESTIMATE PREPARED:	26-Jun-18
ESTIMATE PREPARED BY:	Daniel Guse
ESTIMATE AMOUNT:	\$76,005.00
10 % CONTINGENCY:	\$7,600.50
ESTIMATE GRAND TOTAL:	\$83,605.50

Pre-Lining Work:	
	CCTV and Cleaning,
	Invert Repair as Needed
	Fence Removal
	Clearing rocks from Upstream Headwall
Lining Work:	
	140 LF x 24" x 10.5 mm CIPP
	250 LF x 30" x 13.5 mm CIPP
Post Lining Work:	
	Post CCTV
	SinkHole Repair
	Restoration as Needed
	Replace rip-rap at upstream headwall

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	1.00	\$ 85.00
3	Out of Scope Work, Laborer	HR	\$ 70.00	5.00	\$ 350.00
	TV Inspection and Jet-Vac Cleaning				
7	CCTV Storm (w/ DVD & Report)	LF	\$ 2.50	390.00	\$ 975.00
	Storm Cleaning (less than 25% full)				
14	24" Pipe - Cleaning less than 25% full	LF	\$ 5.50	140.00	\$ 770.00
15	30" Pipe - Cleaning less than 25% full	LF	\$ 6.00	250.00	\$ 1,500.00
	Flowable Paved Pipe Invert				
123	24" Diameter	LF	\$ 35.00	50.00	\$ 1,750.00

124	30" Diameter	LF	\$ 40.00	50.00	\$ 2,000.00
	Internal Point Repair				
132	24" Diameter	LF	\$ 300.00	20.00	\$ 6,000.00
133	30" Diameter	LF	\$ 250.00	20.00	\$ 5,000.00
	Misc & Special Structures/Components				
209	Invert Installation, 4' Dia	EA	\$ 275.00	4.00	\$ 1,100.00
	Grout Connection to Structure				
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				
240	24" - 10.0mm (.3937")	LF	\$ 93.00	140.00	\$ 13,020.00
241	30" - 12.5mm (.4921")	LF	\$ 130.00	250.00	\$ 32,500.00
257	Add Thickness Per 1.5mm -24"	LF	\$ 3.50	140.00	\$ 490.00
258	Add Thickness Per 1.5mm -30"	LF	\$ 5.00	250.00	\$ 1,250.00
	Inversion Setup				
270	Inversion Setup Charge 15-36" CIPP	EA	\$ 900.00	2.00	\$ 1,800.00
	Earthwork & Grading				
368	Haul-In Structural Fill Material	CY	\$ 50.00	10.00	\$ 500.00
370	Finish Grading	SY	\$ 5.00	20.00	\$ 100.00
	Erosion Control				
388	Sodding Complete - Fescue	SY	\$ 5.75	100.00	\$ 575.00
392	Topsoil Complete	CY	\$ 30.00	20.00	\$ 600.00
	Miscellaneous Items				
429	Rem/Rep Existing 4' Wood Fence Residential	LF	\$ 65.00	20.00	\$ 1,300.00
	TOTAL ESTIMATE				\$76,005.00