

MEMORANDUM

To: Mayor and City Council

From: David Elliott

Date: July 11, 2016

Subject: **Approval of Funding for Stormwater Pipe Repairs at 1539 Bishop Hollow Run.**

ITEM DESCRIPTION

Approval of Funding for Stormwater Pipe Repairs at 1539 Bishop Hollow Run. Estimate for the culvert rehabilitation is \$94,201.80, which includes a 10% contingency.

BACKGROUND

Needed repairs were located during inspections associated with the 2016 Paving List. The culvert system includes 230 Linear feet of 18" CMP, 365 liner feet of 24" CMP, and 50 linear feet of 30" CMP. This pipe system is approximately 50 years old and significant rusting and deterioration exist throughout. The invert has completely eroded from portions of both the 24" and 30" culverts. Staff recommends that Cured in Place Pipe (CIPP) lining be used to rehabilitate this system. This CIPP rehabilitation will consist of lining 645 liner feet of culvert and other improvements in 6 stormwater structures.

This project was not anticipated or included in the 2016 Stormwater Repairs and Maintenance Budget. If city council approves this project, funding will be appropriated in a subsequent amendment to the 2016 Stormwater Budget.

RECOMMENDED ACTION

Staff recommends approving \$94,201.80 in funding for Stormwater Culvert Repairs at 1539 Bishop Hollow Run.



Missing invert in portions of 24" culvert



Missing invert through significant portions of 30" culvert

IPR Southeast LLC

ESTIMATE FOR CITY OF DUNWOODY 2016 STANDBY STORMWATER SYSTEM REPAIR CONTRACT

PROJECT LOCATION:	1539 Bishop Hollow Run Dunwoody, GA 30338
DATE ESTIMATE PREPARED:	22-Jun-16
ESTIMATE PREPARED BY:	Daniel Guse
PO #:	TBD
ESTIMATE AMOUNT:	\$85,638.00
10 % CONTINGENCY:	\$8,563.80
ESTIMATE GRAND TOTAL:	\$94,201.80

Pre-Lining Work:

	Pre-CCTV and Cleaning (already complete, cleaning as needed prior to lining)
	Cleaning (2) Catch Basins
	Remove Concrete at mouth of upstream headwall
	Remove concrete and intruding pipe ends in catch basin at corner of BH Run and BH Way
	Remove solid catch basin tops and Replace with man entry tops (2)

Lining Work:

	CIPP Lining of 230 LF x 18" x 9.0 mm
	CIPP Lining of 385 LF x 24" x 10.5 mm
	CIPP Lining of 50 LF x 30" x 13.5 mm

Post Lining Work:

	Post CCTV
	Invert Rebuild (6)
	Grout ends to structures (4)

ITEM #	Description	Unit	Unit Price	Quantity	Total Costs
General Conditions					
1	Mobilization	EA	\$ 1,600.00	1.00	\$ 1,600.00
2	Out of Scope Work, Foreman	HR	\$ 85.00	8.00	\$ 680.00
3	Out of Scope Work, Laborer	HR	\$ 70.00	16.00	\$ 1,120.00
Traffic Control					
5	Traffic Control Minor	DA	\$ 1,000.00	2.00	\$ 2,000.00

	Storm Cleaning (less than 25% full)				
12	18" Pipe - Clean less than 25% full	LF	\$ 4.60	150.00	\$ 690.00
14	24" Pipe - Clean less than 25% full	LF	\$ 5.25	200.00	\$ 1,050.00
15	30" Pipe - Clean less than 25% full	LF	\$ 5.80	50.00	\$ 290.00
	Storm Drain Inlets & Manholes				
	New Std Inlet GDOT 1019/1011 or DeKalb Std				
	Brick Square Inlets				
146	4' Sq Brck Inlets w/Flush Grte Only	VF	\$ 555.00	6.00	\$ 3,330.00
	Misc & Special Structures/Components				
194	4' Dia Pedestal Top w Inlet F/G	EA	\$ 1,100.00	2.00	\$ 2,200.00
205	4'x4' Precst Top w/ MH R/C	EA	\$ 500.00	2.00	\$ 1,000.00
209	Invert Installation, 4' Dia	EA	\$ 255.00	3.00	\$ 765.00
210	Invert Installation, 5' Dia	EA	\$ 350.00	3.00	\$ 1,050.00
	Grout Connection to Structure				
219	18" Grout Each End to Structure	EA	\$ 165.00	8.00	\$ 1,320.00
221	24" Grout Each End to Structure	EA	\$ 200.00	6.00	\$ 1,200.00
223	30" Grout Each End to Structure	EA	\$ 215.00	4.00	\$ 860.00
	Lining Requirements				
	CIPP (12' or less in depth)				
	Includes Pre and Post TV during lining				
234	18" - 8.0mm (.315")	LF	\$ 61.00	230.00	\$ 14,030.00
236	24" - 10.0mm (.3937")	LF	\$ 93.00	385.00	\$ 35,805.00
237	30" - 12.5mm (.4921")	LF	\$ 130.00	50.00	\$ 6,500.00
251	Add Thickness Per 1.5mm -18"	LF	\$ 3.00	230.00	\$ 690.00
253	Add Thickness Per 1.5mm -24"	LF	\$ 3.00	385.00	\$ 1,155.00
254	Add Thickness Per 1.5mm -30"	LF	\$ 5.00	50.00	\$ 250.00
	Inversion Setup				
266	Inversion Setup Charge 15-36" CIPP	EA	\$ 850.00	6.00	\$ 5,100.00
	Cast in Place Concrete				
357	High Early Strenth (5000 psi)	CY	\$ 150.00	4.00	\$ 600.00
	Erosion Control				
388	Seed & Straw (Permanent Grassing)	SY	\$ 2.00	60.00	\$ 120.00
394	Topsoil Complete	CY	\$ 30.00	2.00	\$ 60.00
401	Shrub Replacement: 5 gallon, installed	EA	\$ 135.00	3.00	\$ 405.00
	Miscellaneous Items				
407	Removal of Existing Drainage Structure	EA	\$ 800.00	2.00	\$ 1,600.00
410	Stone #57	Ton	\$ 42.00	4.00	\$ 168.00
	TOTAL ESTIMATE				\$85,638.00
	10% CONTINGENCY				\$8,563.80
	GRAND TOTAL ESTIMATE				\$94,201.80