

MEMORANDUM

To: Mayor and City Council
From: Carl Thomas, Stormwater Manager
Date: February 22nd, 2021
Subject: **Funding Authorization for 1493 Old Springhouse Lane Stormwater Repairs**

ITEM DESCRIPTION

Approval of Funding for Stormwater Pipe Repairs at **1493 Old Springhouse Lane**. Estimated cost, plus 10% contingency, is **\$307,675.50**.

BACKGROUND

Structural deficiencies to the storm system on Old Springhouse Lane were identified performing CCTV inspections in April of 2019. The entire pipe system is approximately 58 years old and in poor condition. CCTV footage discovered severe corrosion, separated joints and deformities. Recommended repairs include:

- Repair 400 LF of 36" Corrugated Metal Pipe (CMP) with cured in place pipe
- Replace 360 linear feet of pipe with reinforced concrete pipe
- Abandon 150 LF of failed CMP and stabilize with cementitious fill
- Remove four brick catch basins and replace with round precast manholes
- Remove/Replace two driveways (approx. 350 square yards)
- Remove/Replace 40 square yards of pavement

This project will be funded from the FY2021 Stormwater Repairs and Maintenance Budget.

RECOMMENDED ACTION

Staff recommends approving \$307,675.50 in funding for Stormwater Pipe Repairs at 1493 Old Springhouse Lane.

CORROSION WITH HOLES IN CORRUGATED METAL PIPE



BRICK MANHOLE INSTALLED ABOVE METAL PIPE



DEFORMED CORRUGATED METAL PIPE



CITY OF DUNWOODY RFP 18-04 STANDBY STORMWATER REPAIR UNIT PRICE CONTRACT

SOUTHERN PREMIER CONTRACTORS, INC. 2019

PROJECT LOCATION:

1532 Old Spring House Lane, Dunwoody

PREPARED BY:

M. Massey

DATE ESTIMATE PREPARED:

4/27/2020 revised

TOTAL ESTIMATE \$ 279,705.00

10% CONTINGENCY \$ 27,970.50

GRAND TOTAL OF ESTIMATE \$ 307,675.50

Scope of Work:

Remove Ex. Buried JB/GI @ JB1, JB2, JB3, JB4 & Replace w/New Precast Structure

Remove Existing CB1, CB2, CB3, CB4 & Replace w/New Complete 1033/1034

Remove & Replace Pipes 4(CB-CB), P5(CB-JB), P7(CB-CB), P8(CB-JB), P9(JB-HW) w/New 36" RCP

Abandon Pipe 2 & Pipe 3 & Fill w/Flowable Fill

Install New Pipe @ ROW to Replace Abadoned Pipes 2 & 3

External Pipe Point Repair @ P6 Upstream & Downstream Section

Remove Trees @ Pipe Replacement

Remove & Replace Bushes @ New Pipe Replacement

Install New Headwall @ HW2

Internal Pipe Point Repairs @ Pipe 1 & Pipe 6

Flowable Fill as Needed prior to Lining @ Pipe 1 & Pipe 6

Remove & Replace Section of Driveway's @ Pipe Replacement/Structure

Remove & Replace Section of Sidewalk & Curb

Grout CIPP Ends to Structures

Landscape Disturbed Areas

Lining Pipes:

Pipe 1 - 36" x 122lf

Pipe 6 - 36" x 280lf

Item#	Item	Quantity	Unit	Unit Price	Total Cost
1ND	Mobilization	1	EA	\$ 1,500.00	\$ 1,500.00
2ND	Out of Scope Work, Foreman	10	HR	\$ 55.00	\$ 550.00
3ND	Out of Scope Work, Laborer	20	HR	\$ 45.00	\$ 900.00
4ND	Traffic Control Minor 1 – Includes Continuous Crew of 2 Flagmen	2	Per Day	\$ 1,800.00	\$ 3,600.00
5ND	Traffic Control Minor 2 – Includes Cones and Signage	4	Per Day	\$ 1,000.00	\$ 4,000.00
7ND	TV Storm Lines (includes DVD & Report)	671	LF	\$ 2.00	\$ 1,342.00
16ND	36" PIPE - Cleaning less than 25% full	404	LF	\$ 6.75	\$ 2,727.00
50ND	36" SRCMP	60	LF	\$ 47.35	\$ 2,841.00
61ND	36" RCP	360	LF	\$ 65.45	\$ 23,562.00
77ND	Invert >8.1' to 12'	60	LF	\$ 50.00	\$ 3,000.00
98ND	Precast Headwall for 36" Pipe	1	EA	\$ 1,125.00	\$ 1,125.00

125ND	36" Diameter (flowable fill as needed)	35	LF	\$ 40.00	\$ 1,400.00
134ND	36" Diameter	24	LF	\$ 150.00	\$ 3,600.00
144ND	5'-Dia. Precast Catch Basin GADOT 1033/1034	35	VF	\$ 600.00	\$ 21,000.00
180ND	5' Round Precast Inlet w/ Pedestal Top & Grate or MH Ring & Cover	30	VF	\$ 400.00	\$ 12,000.00
210ND	Invert Installation, 5' Diameter	9	EA	\$ 300.00	\$ 2,700.00
219ND	Flowable Fill Abandonment (Pumping included if needed)	1	LS	\$ 20,000.00	\$ 20,000.00
227ND	36" Grout Each End to Structure	4	EA	\$ 225.00	\$ 900.00
242ND	36" PIPE - 16.0mm (.6299")	404	LF	\$ 150.00	\$ 60,600.00
259ND	Additional Cost Per 1.5mm (.0591") Thickness - 36" PIPE	404	LF	\$ 7.00	\$ 2,828.00
270ND	Inversion Setup Charge 15"- 36" CIPP	2	EACH	\$ 1,500.00	\$ 3,000.00
336ND	Driveway 4" Concrete (Residential w/4"of GAB included)	351	SY	\$ 50.00	\$ 17,550.00
341ND	Regular Duty Sidewalk (4" Thick, 3000 psi) 11'-20' length	12	SY	\$ 55.00	\$ 660.00
348ND	Curb & Gutter 6"x24"x12" High Back	250	LF	\$ 30.00	\$ 7,500.00
355ND	Graded Aggregate Base	36	Ton	\$ 45.00	\$ 1,620.00
359ND	Tack Coat	10	Gal	\$ 15.00	\$ 150.00
360ND	2" Asph. Con. Hot Mix for Trench Cap	12	Ton	\$ 140.00	\$ 1,680.00
361ND	8" Thick 3000 psi- Concrete Trench Cap	10	CY	\$ 300.00	\$ 3,000.00
362ND	Tree Removal 6"-12'"	10	EA	\$ 475.00	\$ 4,750.00
364ND	Tree Removal >23"	7	EA	\$ 1,600.00	\$ 11,200.00
365ND	Clear & Grubbing	855	SY	\$ 8.00	\$ 6,840.00
368ND	Haul-In Structural Fill Material	17	CY	\$ 25.00	\$ 425.00
369ND	Haul-Off Soil Material	170	CY	\$ 30.00	\$ 5,100.00
370ND	Finish Grading	855	SY	\$ 3.00	\$ 2,565.00
374ND	Stone Rip Rap Type III In Place	38	SY	\$ 50.00	\$ 1,900.00
382ND	Install & Remove Orange Tree Save Fence	300	LF	\$ 3.00	\$ 900.00
389ND	Sodding Complete-Bermuda	513	SY	\$ 7.00	\$ 3,591.00
390ND	Sodding Complete-Zoyzia	342	SY	\$ 9.00	\$ 3,078.00
393ND	Pine Straw	200	SY	\$ 2.00	\$ 400.00
400ND	Shrub Replacement: 3 gallon, installed	14	EA	\$ 89.00	\$ 1,246.00
403ND	Bedding Flower per flat of 18, installed	5	SY	\$ 79.00	\$ 395.00
404ND	Irrigation Line Replacement	40	LF	\$ 1.50	\$ 60.00
405ND	Irrigation Head Replacement (Builder Grade)	2	EA	\$ 25.00	\$ 50.00
407ND	Debris Removal, Tandem Dump Truck	4	Per Load	\$ 750.00	\$ 3,000.00
408ND	Removal of Existing Non Drainage Structure	3	EA	\$ 800.00	\$ 2,400.00
409ND	Removal of Existing Drainage Structure	9	EA	\$ 800.00	\$ 7,200.00
410ND	Remove Existing Pipe all Types and Sizes	248	LF	\$ 40.00	\$ 9,920.00
411ND	Saw Cut Existing Pavements	300	LF	\$ 3.00	\$ 900.00
412ND	Stone #57	180	TON	\$ 40.00	\$ 7,200.00
431ND	Steel Plates (Typ. 5'x8' Size)	10	EA/Day	\$ 125.00	\$ 1,250.00
	TOTAL ESTIMATE				\$ 279,705.00
	10% Contingency				\$ 27,970.50
	Grand Total of Estimate				\$ 307,675.50