



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

MEMORANDUM

To: Mayor and City Council

From: Carl Thomas, Stormwater Manager

Date: July 8th, 2019

Subject: **Memorandum – Funding Authorization for 1708 Houghton Ct N Stormwater Repairs**

ITEM DESCRIPTION

Approval of Funding for Stormwater Pipe Repairs at **1708 Houghton Ct N**. Estimated cost, plus 10% contingency, is **\$56,315.88**.

BACKGROUND

Structural deficiencies to the storm system on N Houghton Ct were identified during routine inspections prior to scheduled paving. 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 +/- 375 combined linear feet of 18 and 30-inch CMP
- Invert repair and sealing of pipe ends
- Debris removal

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

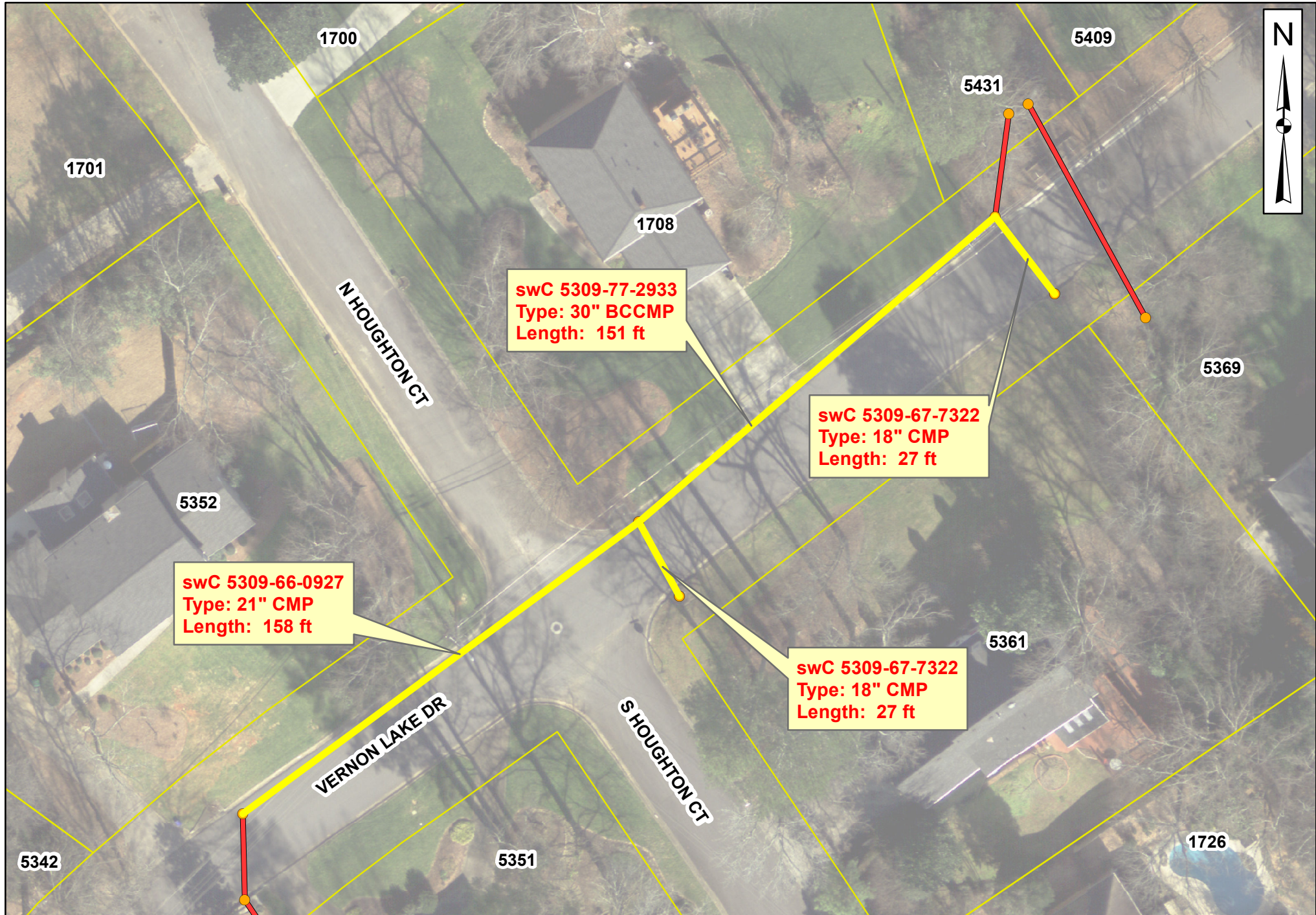
RECOMMENDED ACTION

Staff recommends approving \$56,315.88 in funding for Stormwater Pipe Repairs at 1708 Houghton Ct N.

CORROSION WITH VOIDS IN PIPE INVERT



1708 N Houghton Ct



*The City of Dunwoody does not warrant the accuracy or currency of the map provided and does not guarantee the suitability of the map for any purpose, expressed or implied.

IPR Southeast LLC	
ESTIMATE - RFP 18-04 2019 STANDBY STORMWATER REPAIR UNIT CONTRACT	
PROJECT LOCATION:	1708 N Houghton Ct Dunwoody, GA 30338
DATE ESTIMATE PREPARED:	17-Apr-19
ESTIMATE PREPARED BY:	Dan Guse
ESTIMATE AMOUNT:	\$51,196.25
10 % CONTINGENCY:	\$5,119.63
ESTIMATE GRAND TOTAL:	\$56,315.88

Pre-Lining Work:	
	Pre CCTV and Cleaning
	Concrete removal from catch basin
	Clean out catch basin (1)
	Invert Repair as Needed
Lining Work:	
	CIPP Lining - 225 LF - 18" x 9.0 mm
	CIPP Lining - 150 LF - 30" x 13.5 mm
Post Lining Work:	
	Post CCTV
	Invert Insatllation (4)
	Seal Ends of Pipes (8)

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	12.00	\$ 1,020.00
3	Out of Scope Work, Laborer	HR	\$ 70.00	24.00	\$ 1,680.00
	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	375.00	\$ 937.50
	Storm Cleaning (less than 25% full)				
12	18" Pipe - Cleaning less 25% full	LF	\$ 4.75	225.00	\$ 1,068.75
15	30" Pipe - Cleaning less than 25% full	LF	\$ 6.00	150.00	\$ 900.00
	Flowable Paved Pipe Invert				

124	30" Diameter	LF	\$ 40.00	20.00	\$ 800.00
	Misc & Special Structures/Components				
209	Invert Installation, 4' Dia	EA	\$ 275.00	4.00	\$ 1,100.00
	Grout Connection to Structure				
222	18" Grout Each End to Structure	EA	\$ 185.00	6.00	\$ 1,110.00
226	30" Grout Each End to Structure	EA	\$ 240.00	2.00	\$ 480.00
	Lining Requirements				
	CIPP (12' or less in depth)				
	Includes Pre and Post TV during lining				
238	18" - 8.0mm (.315")	LF	\$ 65.00	225.00	\$ 14,625.00
241	30" - 12.5mm (.4921")	LF	\$ 130.00	150.00	\$ 19,500.00
255	Add Thickness Per 1.5mm -18"	LF	\$ 3.00	225.00	\$ 675.00
258	Add Thickness Per 1.5mm -30"	LF	\$ 5.00	150.00	\$ 750.00
	Inversion Setup				
270	Inversion Setup Charge 15-36" CIPP	EA	\$ 900.00	3.00	\$ 2,700.00
	TOTAL ESTIMATE				\$51,196.25



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MEMORANDUM

To: Mayor and City Council

From: Carl Thomas, Stormwater Manager

Date: July 8th, 2019

Subject: **Memorandum – Funding Authorization for 5252 Redfield Court Stormwater Repairs**

ITEM DESCRIPTION

Approval of Funding for Stormwater Pipe Repairs at **5252 Redfield Court**. Estimated cost, plus 20% contingency, is **\$207,519.96**.

BACKGROUND

Deficiencies to storm infrastructure on Redfield Ct were first identified during 2017 pre-paving inspections. Initial repairs within the right-of-way were completed in December of 2017. The second phase of the project involves restoring a 380-foot section of galvanized metal pipe, conveying stormwater from the road through four residential properties. The pipe is approximately 40 years old and in need of immediate repair. CCTV footage revealed large voids in the invert, causing deformities in the pipe shape and reducing capacity. There are also two disconnected joints causing damage to the driveways at 5244 and 5252 Redfield Court. Recommended repairs include:

- Lining +/- 280 linear feet of 36-inch CMP
- Installation of two precast concrete junction boxes
- Dig & Replace +/- 100 feet of deformed & disjointed pipe with 36 inch RCP
- Remove & replace two driveway segments
- Landscape restoration (sod, flower & shrub replacement, irrigation repairs)

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

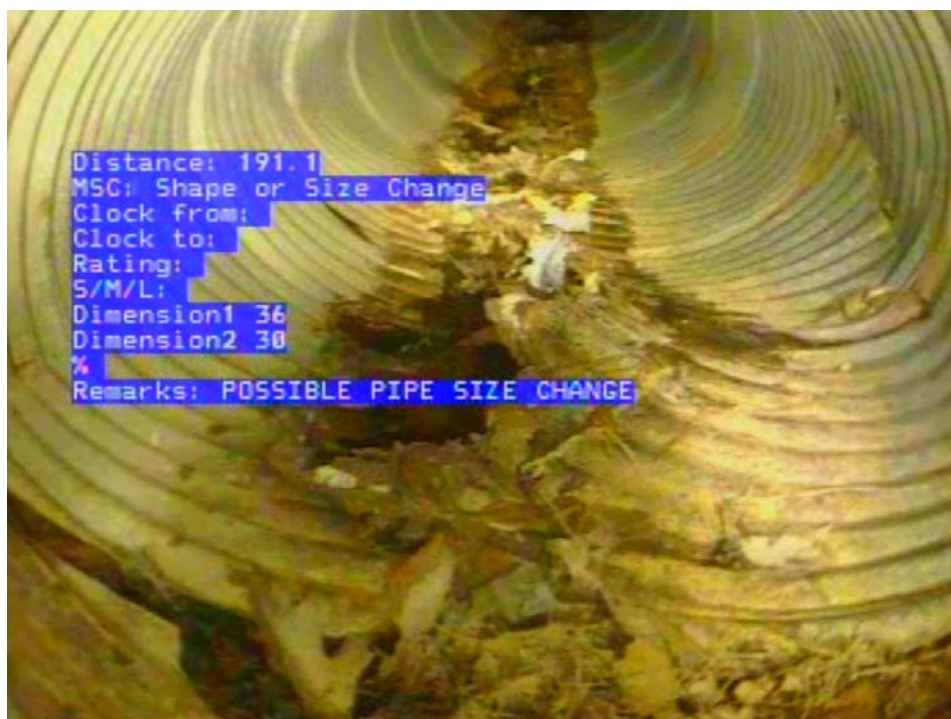
RECOMMENDED ACTION

Staff recommends approving \$207,519.96 in funding for Stormwater Pipe Repairs at 5252 Redfield Court.

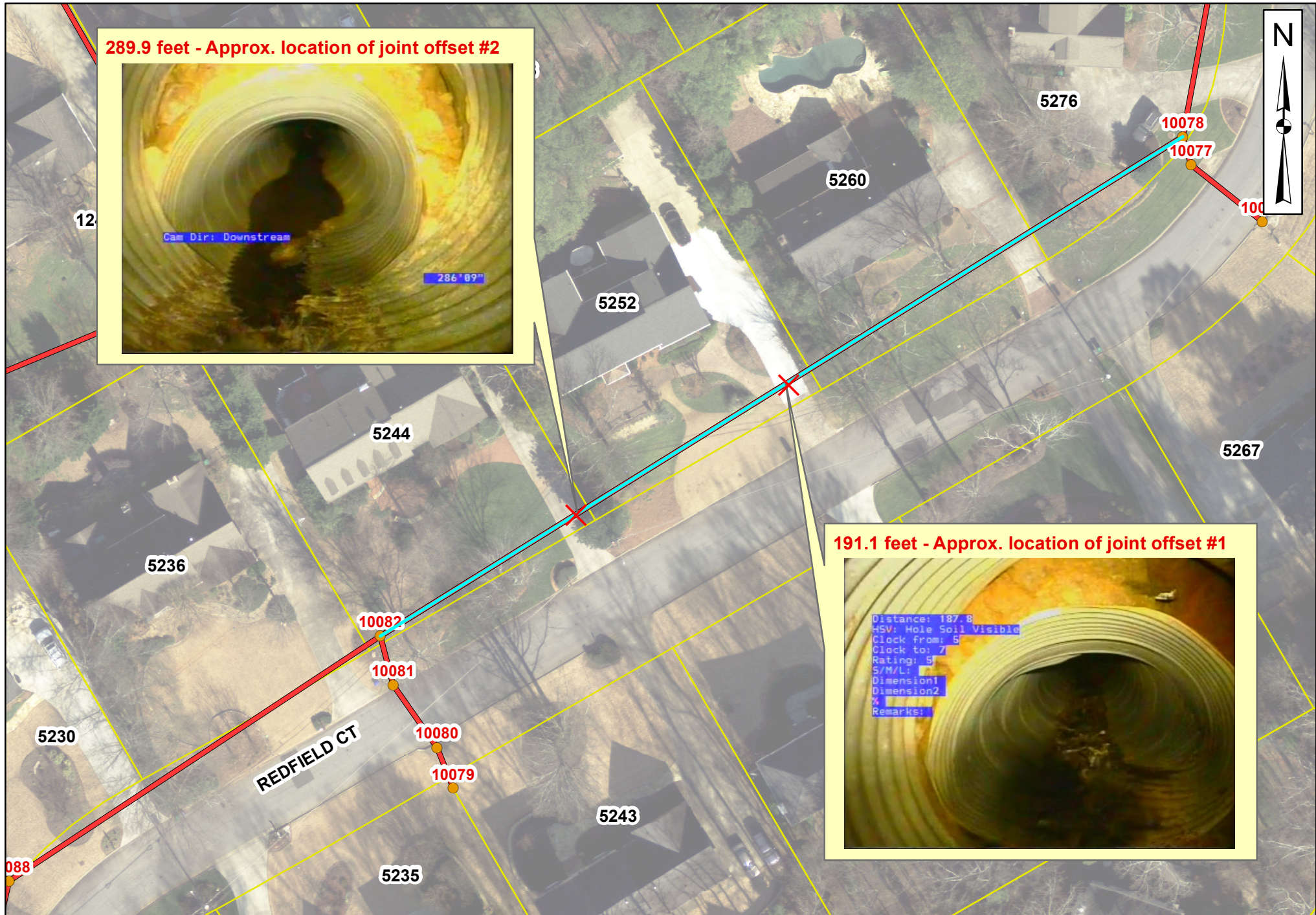
LARGE VOIDS IN INVERT



DEFORMITIES DUE TO INVERT FAILURE



Asset swC 4328-54-8269*



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CITY OF DUNWOODY RFP 18-04 STANDBY STORMWATER REPAIR UNIT PRICE CONTRACT					
SOUTHERN PREMIER CONTRACTORS, INC. 2019					
PROJECT LOCATION:			5252 Redfield Ct, Dunwoody		
PREPARED BY:			M. Massey		
DATE ESTIMATE PREPARED:			06/03/2019		
TOTAL ESTIMATE			\$	172,933.30	
20% CONTINGENCY			\$	34,586.66	
GRAND TOTAL OF ESTIMATE			\$	207,519.96	
CCTV & Clean Pipes					
Internal Pipe Point Repairs					
PRE LINING:					
Flowable Fill as Needed					
Remove & Replace 36" Pipe w/RCP					
Remove & Replace Section of CMP					
Install 2-New Junction Box w/Grate					
LINING:					
CIPP Lining - 36"x 295LF					
POST LINING:					
Remove & Replace Section of Driveway's (stamp concrete)					
Remove & Replace Trees & Bushes					
Install Inverts					
Grout CIPP Ends to Structure					
Grout All Joints/Cracks & Holes in All Structures					
Item#	Item	Quantity	Unit	Unit Price	Total Cost
	General Conditions				
1ND	Mobilization	1	EA	\$ 1,500.00	\$ 1,500.00
2ND	Out of Scope Work, Foreman	15	HR	\$ 55.00	\$ 825.00
3ND	Out of Scope Work, Laborer	30	HR	\$ 45.00	\$ 1,350.00
	Traffic Control				
4ND	Traffic Control Minor 1 – Includes Continuous Crew of 2 Flagmen		Per Day	\$ 1,800.00	\$ -
5ND	Traffic Control Minor 2 – Includes Cones and Signage	9	Per Day	\$ 1,000.00	\$ 9,000.00
6ND	Mobile Electronic Detour Signs		Per Day	\$ 150.00	\$ -
	TV Inspection and Jet-Vac Cleaning				
7ND	TV Storm Lines (includes DVD & Report)	280	LF	\$ 2.00	\$ 560.00
	Storm Line Cleaning (less than 25% full)				
16ND	36" PIPE - Cleaning less than 25% full	280	LF	\$ 6.75	\$ 1,890.00
	Spiral Rib Corr. Steel Pipe (14 ga. Tp. 2 Alum)				
	Includes excavation, backfill, & compaction				
50ND	36" SRCMP	30	LF	\$ 47.35	\$ 1,420.50
	Reinforced Concrete Pipe (RCP) Tp 3				
	Includes excavation, backfill, & compaction				
61ND	36" RCP	104	LF	\$ 65.45	\$ 6,806.80
	Additional Depth for Pipes				
	Includes excavation, backfill, & compaction				

77ND	Invert >8.1' to 12'	134	LF	\$ 50.00	\$ 6,700.00
	Flowable Paved Pipe Invert				
125ND	36" Diameter	280	LF	\$ 40.00	\$ 11,200.00
	Internal Pipe Point Repairs (Including cutting, trimming, jacking, etc.)				
134ND	36" Diameter	40	LF	\$ 150.00	\$ 6,000.00
	Precast Round Inlets				
179ND	4' Round Precast Inlet w/ Pedestal Top & Grate or MH Ring & Cover	24	VF	\$ 325.00	\$ 7,800.00
	Miscellaneous & Special Structures/Components				
209ND	Invert Installation, 4' Diameter	4	EA	\$ 250.00	\$ 1,000.00
	Grout Connection To Structure				
227ND	36" Grout Each End to Structure	6	EA	\$ 225.00	\$ 1,350.00
235ND	Grout all joint, cracks & holes, in structures, complete (structures greater than 8' deep)	4	EA	\$ 900.00	\$ 3,600.00
	LINING REQUIREMENTS				
	CURED IN PLACE PIPE LINER (CIPP) (12' or Less in Depth)				
	Includes Pre and Post Television Inspections during lining				
242ND	36" PIPE - 16.0mm (.6299")	295	LF	\$ 150.00	\$ 44,250.00
259ND	Additional Cost Per 1.5mm (.0591") Thickness - 36" PIPE	1180	LF	\$ 7.00	\$ 8,260.00
	Inversion Setup				
270ND	Inversion Setup Charge 15"- 36" CIPP	2	EACH	\$ 1,500.00	\$ 3,000.00
	Cast in Place Concrete				
337ND	Driveway 6" Concrete (Commercial w/6" of GAB included)	112	SY	\$ 60.00	\$ 6,720.00
338ND	Driveway 8" Concrete (Commercial w/6" of GAB included)	43	SY	\$ 75.00	\$ 3,225.00
346ND	Heavy Duty Sidewalk (6" w/Wire Mesh, & 3500 psi) 5'-10' length	80	SY	\$ 80.00	\$ 6,400.00
348ND	Curb & Gutter 6"x24"x12" High Back	50	LF	\$ 30.00	\$ 1,500.00
	Earthwork & Grading				
362ND	Tree Removal 6"-12"	7	EA	\$ 475.00	\$ 3,325.00
365ND	Clear & Grubbing	312	SY	\$ 8.00	\$ 2,496.00
368ND	Haul-In Structural Fill Material	34	CY	\$ 25.00	\$ 850.00
369ND	Haul-Off Soil Material	68	CY	\$ 30.00	\$ 2,040.00
370ND	Finish Grading	312	SY	\$ 3.00	\$ 936.00
	Erosion Control				
382ND	Install & Remove Orange Tree Save Fence	300	LF	\$ 3.00	\$ 900.00
388ND	Sodding Complete-Fescue	228	SY	\$ 8.00	\$ 1,824.00
390ND	Sodding Complete-Zoyzia	285	SY	\$ 9.00	\$ 2,565.00
392ND	Topsoil Compete	34	CY	\$ 29.00	\$ 986.00
393ND	Pine Straw	125	SY	\$ 2.00	\$ 250.00
396ND	Tree Replacement 2-1/2" Hardwood, installed	7	EA	\$ 250.00	\$ 1,750.00
400ND	Shrub Replacement: 3 gallon, installed	4	EA	\$ 89.00	\$ 356.00
402ND	Shrub Replacement: 7 gallon, installed	2	EA	\$ 149.00	\$ 298.00
403ND	Bedding Flower per flat of 18, installed	40	SY	\$ 79.00	\$ 3,160.00
404ND	Irrigation Line Replacement	100	LF	\$ 1.50	\$ 150.00
405ND	Irrigation Head Replacement (Builder Grade)	6	EA	\$ 25.00	\$ 150.00
	Miscellaneous Items				
406ND	Connect to Existing Structures		EA	\$ 750.00	\$ -
407ND	Debris Removal, Tandem Dump Truck	4	Per Load	\$ 750.00	\$ 3,000.00
408ND	Removal of Existing Non Drainage Structure	2	EA	\$ 800.00	\$ 1,600.00
409ND	Removal of Existing Drainage Structure	1	EA	\$ 800.00	\$ 800.00
410ND	Remove Existing Pipe all Types and Sizes	134	LF	\$ 40.00	\$ 5,360.00
411ND	Saw Cut Existing Pavements	100	LF	\$ 3.00	\$ 300.00
412ND	Stone #57	72	TON	\$ 40.00	\$ 2,880.00
416ND	Relocate Existing Residential Water Meter, Including Box	1	EA	\$ 200.00	\$ 200.00
417ND	Install Thermal Barrier to protect water service line or other utilities		SF	\$ 11.00	\$ -
418ND	Bypass pumping setup-equipment and hose placement	1	EA	\$ 750.00	\$ 750.00
419ND	4" Pumping Operation Time	8	HR	\$ 50.00	\$ 400.00
434ND	Adjust Manhole Cover in soil (complete, includes removal or modification of old structure top)	1	EA	\$ 1,250.00	\$ 1,250.00
	TOTAL ESTIMATE				\$ 172,933.30
	20% Contingency				\$ 34,586.66
	Grand Total of Estimate				\$ 207,519.96