

To: Mayor and City Council
From: Carl Thomas
Stormwater Utility Manager
Re: Funding Authorization for 2531 Cherry Hill Lane Storm Repairs
Date: September 6th, 2022

Action

Authorize the Mayor, City Manager, or designee to approve \$94,056.00 in funding for Stormwater Pipe Repairs at 2531 Cherry Hill Lane.

Summary/Details

Structural deficiencies to the storm system on Layfield Drive were identified responding to a sinkhole reported by the property owner on 8/7/2020. The pipe system is composed of 105 linear feet of 24-inch corrugated metal pipe that is approximately 55 years old and in poor condition. Closed-Caption Television (CCTV) footage discovered corrosion, visible holes, joint separations, and deformities in the pipe. Recommended repairs include:

- Repair 110 LF of Corrugated Metal Pipe (CMP) with Cured In Place Pipe (CIPP) liner.
- +/- 100 LF linear feet of invert repairs with flowable fill
- Replace 20 LF of deformed CMP
- Tree Removal and Stump Grinding

This project will be funded from the FY2022 Stormwater Repairs and Maintenance Budget if approved by Council.

Recommendation

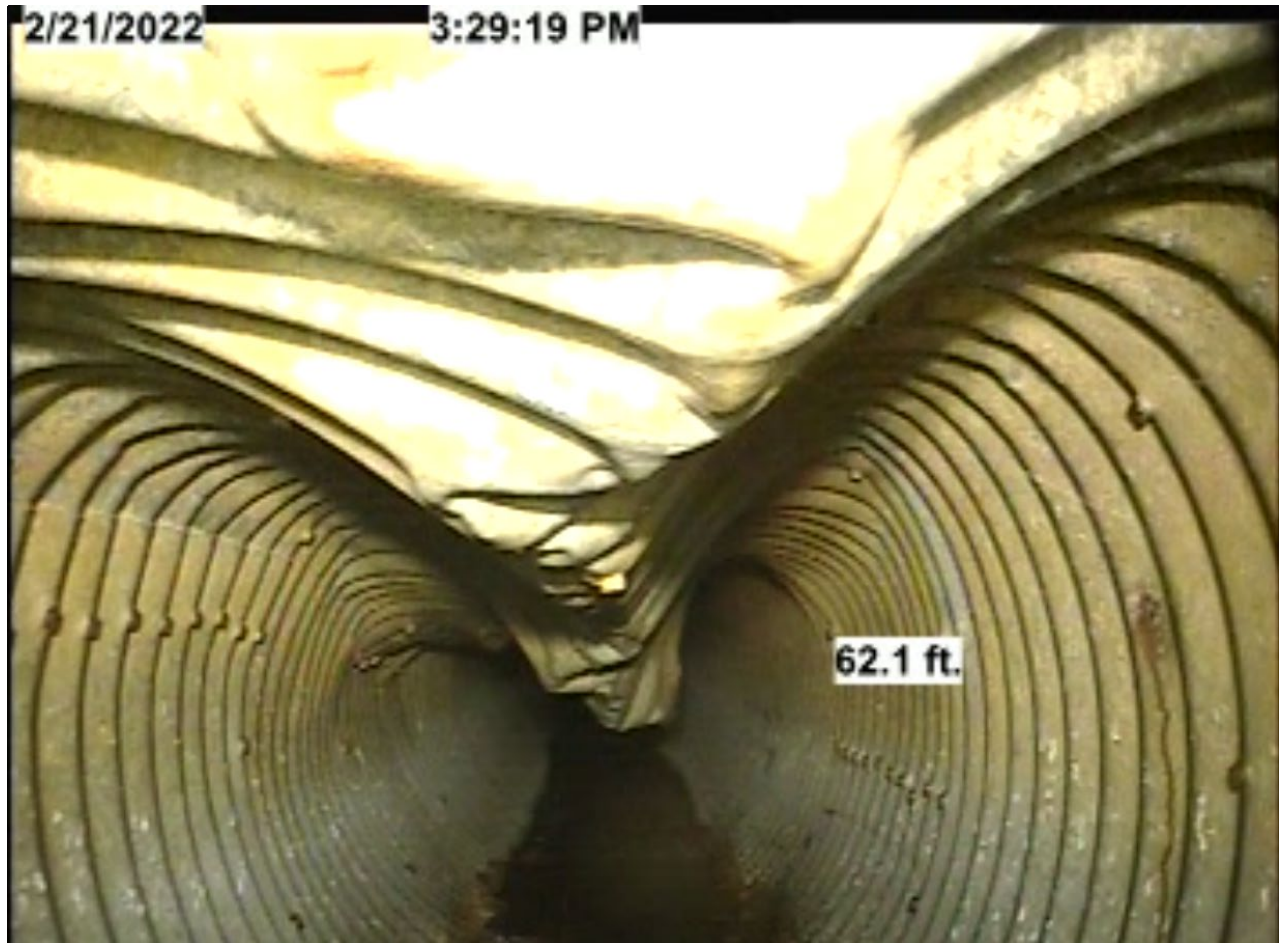
Staff recommends approving \$94,056.00 in funding for Stormwater Pipe Repairs at 2531 Cherry Hill Lane.



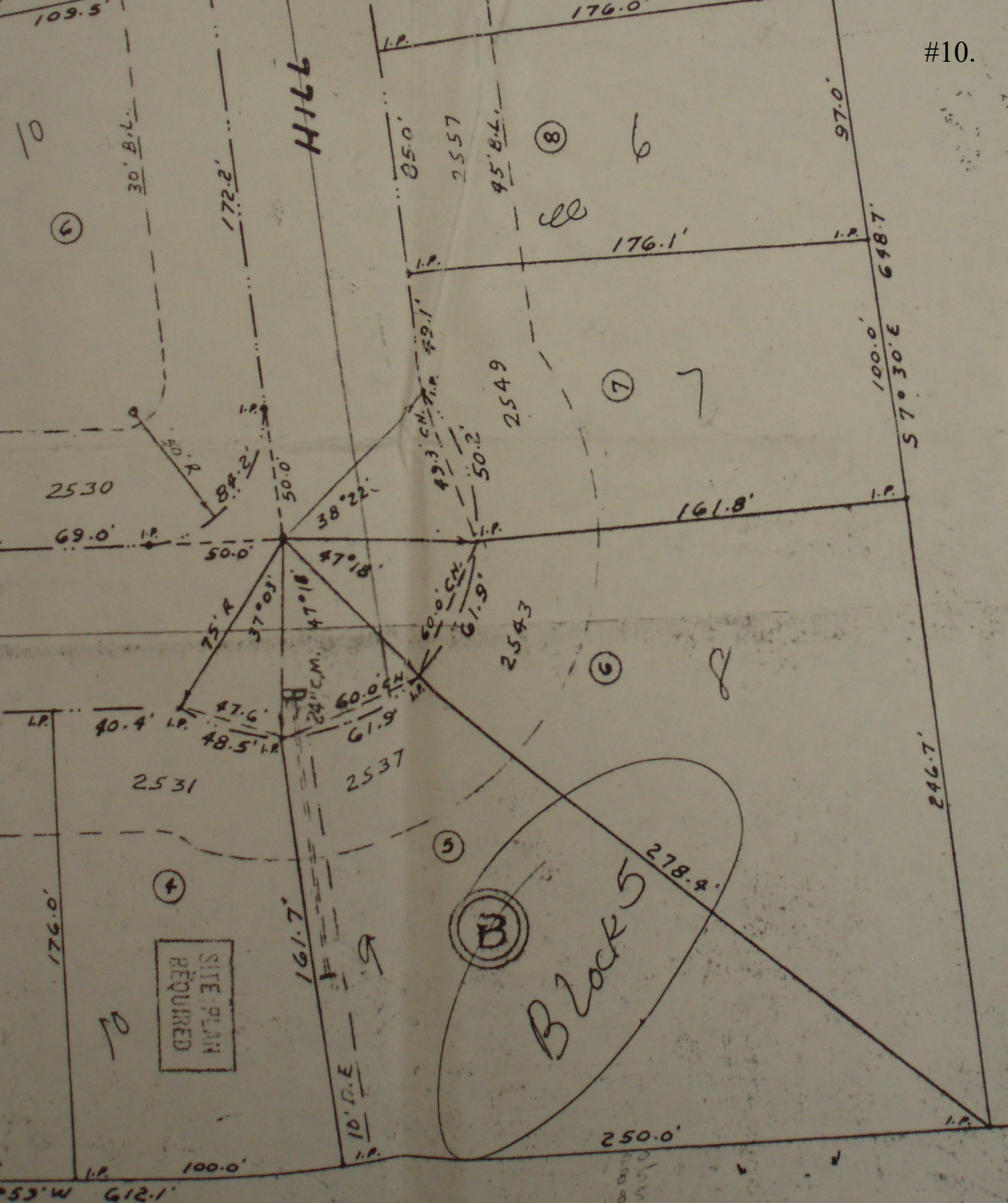
Damaged Outlet Headwall



Severe Corrosion with Visible Holes



Deformed Pipe Crown



Final Plat: Cherry Hill Unit Two Packet page:...

UNIT PRICE SCHEDULE				
Item	Unit	Price	Est. Qty	Total
Mobilization	EA	\$ 1,525.00	1	\$ 1,525.00
Traffic Control Minor 2 - Includes Cones and Signage	Per Day	\$ 2,200.00	6	\$ 13,200.00
TV Storm Lines (includes DVD & Report)	LF	\$ 5.00	105	\$ 525.00
Visual Inspection (Pictures), per Project (During	EA	\$ 250.00	1	\$ 250.00
24" PIPE - Cleaning less than 25% full	LF	\$ 7.00	105	\$ 735.00
12" to 36" PIPE	LF	\$ 45.00	20	\$ 900.00
24"SRCMP	LF	\$ 109.00	10	\$ 1,090.00
Precast Headwall for 24" Pipe	EA	\$ 1,125.00	1	\$ 1,125.00
24" Diameter	LF	\$ 475.00	10	\$ 4,750.00
Pressure Grouting (Pumping included if needed)	CY	\$ 2,250.00	2	\$ 4,500.00
24" Grout Each End to Structure	EA	\$ 200.00	3	\$ 600.00
Grout all joint, cracks & holes, in structures, complete	EA	\$ 625.00	1	\$ 625.00
24" PIPE - 11.0mm (.433")	LF	\$ 144.00	105	\$ 15,120.00
Inversion Setup Charge 15"- 36" CIPP	EACH	\$ 1,500.00	1	\$ 1,500.00
Tree Removal 6"-12'''	EA	\$ 1,100.00	1	\$ 1,100.00
Tree Removal 13"-23"	EA	\$ 1,800.00	1	\$ 1,800.00
Tree Removal >23"	EA	\$ 2,500.00	1	\$ 2,500.00
Clear & Grubbing	SY	\$ 7.50	100	\$ 750.00
Channel Excavation	CY	\$ 23.00	10	\$ 230.00
Haul-In Structural Fill Material	CY	\$ 60.00	18	\$ 1,080.00
Haul-Off Soil Material	CY	\$ 55.00	28	\$ 1,540.00
Finish Grading	SY	\$ 9.00	200	\$ 1,800.00
Debris Removal	CY	\$ 60.00	10	\$ 600.00
Stone Rip Rap Type III In Place	TON	\$ 85.00	40	\$ 3,400.00
Install & Remove Type C Silt Fence	LF	\$ 7.00	50	\$ 350.00
Install & Remove Orange Tree Save Fence	LF	\$ 6.00	100	\$ 600.00
Seed & Straw (Permanent Grassing)	SY	\$ 4.00	30	\$ 120.00
Sodding Complete-Fescue	SY	\$ 26.00	30	\$ 780.00
Topsoil Compete	CY	\$ 75.00	20	\$ 1,500.00
Pine Straw	EA	\$ 12.00	50	\$ 600.00
Shrub Replacement: 5 gallon , installed	EA	\$ 145.00	3	\$ 435.00
Connect to Existing Structures	EA	\$ 450.00	1	\$ 450.00
Debris Removal, Tandem Dump Truck	Per Load	\$ 750.00	2	\$ 1,500.00
Removal of Existing Non Drainage Structure	EA	\$ 2,500.00	1	\$ 2,500.00
Removal of Existing Drainage Structure	EA	\$ 2,250.00	1	\$ 2,250.00
Remove Existing Pipe all Types and Sizes	LF	\$ 50.00	10	\$ 500.00
Bypass pumping setup-equipment and hose placement	EA	\$ 750.00	1	\$ 750.00
4" Pumping Operation Time	HR	\$ 120.00	40	\$ 4,800.00
Total				\$ 78,380.00
Contingency 20%				\$ 15,676.00
			total	\$ 94,056.00