

MEMORANDUM

To: Mayor and City Council

From: David Elliott

Date: March 14, 2016

Subject: **Approval of Funding for Stormwater Pipe Repairs at 4996, 5004, 5012, 5020, 5028, 5036, and 5044 Vermack Road**

ITEM DESCRIPTION

Approval of Funding for Stormwater Pipe Repairs on Vermack Road. Estimate for the rehabilitation is \$162,018.06, which includes a 20% contingency.

BACKGROUND

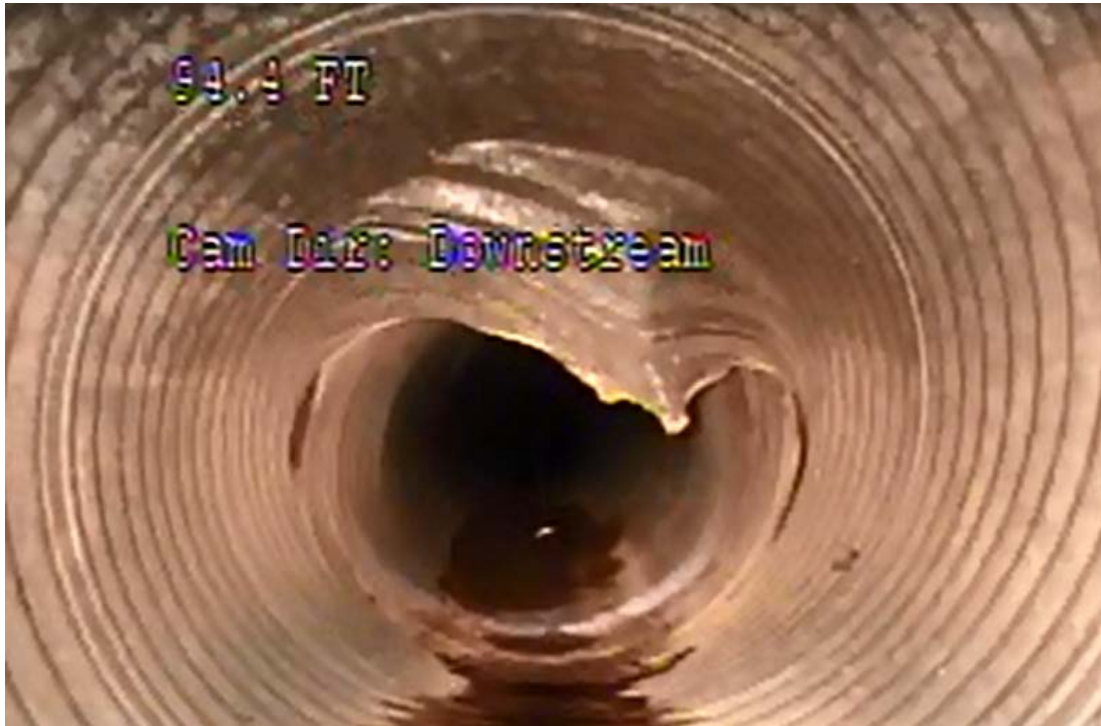
Problems with this stormwater system were originally located in 2012. Several sections of the pipe system were partially crushed during installation, which resulted in a variety of problems. In addition, the system is roughly 40 years old and beginning to fail from wear in several areas. Major excavated repairs were performed on the downstream portion of this system during the summer of 2014. The repairs in 2014 replaced the most damaged portions of this system and eliminated the immediate risk of flooding.

The current funding approval request would facilitate the use of Cured in Place Pipe on 660' of 24" culvert, 141' of 30" culvert, and 43' of 36" culvert. This proposed work would also involve local excavations to address point repairs between 5004 and 5012 Vermack Road, as well as, 5028 and 5036 Vermack Road. Once this project is completed, the entire system north of Womack Road will be rehabilitated.

RECOMMENDED ACTION

Staff recommends approving \$162,018.06 in funding for Stormwater Culvert Repairs on Vermack Road.

#11.



Required Point Repair between 5004 and 5012 Vermack Road

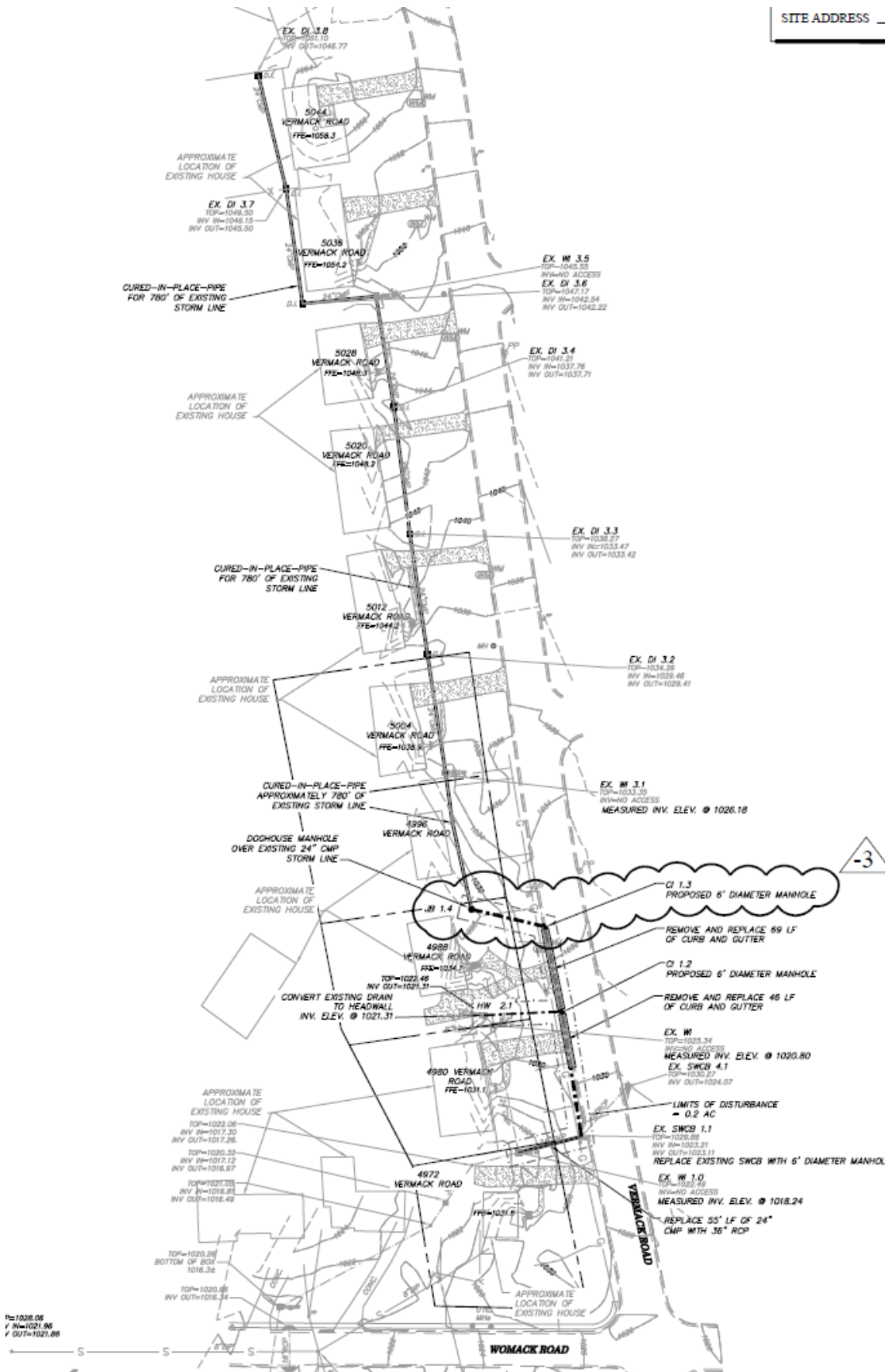


Required Point Repair between 5028 and 5036 Vermack Road

SITE ADDRESS _____

GENERAL NOTES:

1. BOUNDARY AND TOPOGRAPHIC SURVEILLANCE AND ENGINEER'S COLLAR
2. ACCORDING TO THE F.E.M.A. FLOOD COUNTY, GEORGIA AND INCORPORATION NUMBER 130690000H, PANEL 5 C 2001, NO PORTION OF THE PROJECT DESIGNATED FLOOD ZONE "A" (ARE PROPERTY LIES IN FLOOD ZONE "X")
3. SITE IS LOCATED IN THE 17th DIST 03 024 - 03 033 IN DEKALB CO. DUNWOODY. THE PROJECT SITE IS FAMILY HOMES.
4. THE PARCEL NUMBER(S) IS: 18 3
5. THERE ARE NO IMPAIRED STREAMS
6. THERE ARE NO STATE WATERS OF
7. THERE ARE NO KNOWN WETLANDS SITE.
8. THERE ARE NO KNOWN EXISTING P
9. LANDSCAPING SHALL BE MAINTAINED OF DUNWOODY ASSUMES NO RESPI MAINTENANCE OF LANDSCAPING.



IPR Southeast LLC	
ESTIMATE FOR CITY OF DUNWOODY 2014 STANDBY STORMWATER SYSTEM REPAIR CONTRACT	
PROJECT LOCATION:	Vermack Road and Womack Road
DATE ESTIMATE PREPARED:	22-Jan-16
ESTIMATE PREPARED BY:	Daniel Guse
WO #:	TBD
ESTIMATE AMOUNT:	\$135,015.05
20 % CONTINGENCY:	\$27,003.01
ESTIMATE GRAND TOTAL:	\$162,018.06

Pre-Lining Work:

Clean & TV Pipes
Internal Point Repairs - between WI3.5 and DI3.4, between DI3.3 and DI3.2, and WI3.1 and DI1.4
Invert Repair - 15 LF - DI3.8 to DI3.7
Point Repair - 20 LF - DI 3.6 to WI 3.5

Lining Work:

DI 3.8 to DI 3.7 - 98 LF x 13.5 mm - 24" CIPP
DI 3.7 to DI 3.6 - 97 LF x 13.5 mm - 24" CIPP
DI 3.6 to WI 3.5 - 62 LF x 13.5 mm - 24" CIPP
WI 3.5 to DI 3.4 - 95 LF x 13.5 mm - 24" CIPP
DI 3.4 to DI 3.3 - 106 LF x 13.5 mm - 24" CIPP
DI 3.3 to DI 3.2 - 101 LF x 13.5 mm - 24" CIPP
DI 3.2 to WI 3.1 - 101 LF x 13.5 mm - 24" CIPP
WI 3.1 to DI 1.4 - 141 LF x 16.5 mm - 30" CIPP
WI 1.0 to JB1 - 43 LF x 22.5 mm - 36" CIPP

Post Lining Work:

Post Video Inspection
Restoration

ITEM #	Description	Unit	Unit Price	Quantity	Total Costs
General Conditions					
1	Mobilization	EA	\$ 1,600.00	1.00	\$ 1,600.00
Traffic Control					
5	Traffic Control Minor	DA	\$ 1,000.00	5.00	\$ 5,000.00
TV Inspection and Jet-Vac Cleaning					
7	CCTV Storm (w/ DVD & Report)	LF	\$ 2.05	835.00	\$ 1,711.75

	Storm Cleaning (less than 25% full)				
14	24" Pipe - Clean less than 25% full	LF	\$ 5.25	654.00	\$ 3,433.50
15	30" Pipe - Clean less than 25% full	LF	\$ 5.80	141.00	\$ 817.80
16	36" - Pipe - Clean less than 25% full	LF	\$ 6.55	40.00	\$ 262.00
	Storm Cleaning (25% or greater)				
31	24" Pipe - Clean 25% or greater	LF	\$ 5.25	100.00	\$ 525.00
32	30" Pipe - Clean 25% or greater	LF	\$ 6.50	40.00	\$ 260.00
	Special Storm Line Cleaning				
	Roots, Rocks, Debris				
44	12" to 36" Pipe	LF	\$ 15.00	100.00	\$ 1,500.00
	Spiral Rib CMP				
	includes excavation, backfill, & compaction				
48	24" SRCMP	LF	\$ 35.00	20.00	\$ 700.00
	Flowable Paved Pipe Invert				
123	24"	LF	\$ 32.00	30.00	\$ 960.00
	Internal Point Repair				
132	24"	LF	\$ 250.00	8.00	\$ 2,000.00
	Misc & Special Structures/Components				
209	Invert Installation, 4' Dia	EA	\$ 255.00	8.00	\$ 2,040.00
	Grout Connection to Structure				
221	24" Grout Each End to Structure	EA	\$ 200.00	10.00	\$ 2,000.00
223	30" Grout Each End to Structure	EA	\$ 215.00	2.00	\$ 430.00
224	36" Grout Each End to Structure	EA	\$ 225.00	2.00	\$ 450.00
	Lining Requirements				
	CIPP (12' or less in depth)				
	Includes Pre and Post TV during lining				
236	24" - 10.0mm (.3937")	LF	\$ 93.00	660.00	\$ 61,380.00
237	30" - 12.5mm (.4921")	LF	\$ 130.00	141.00	\$ 18,330.00
238	36" - 16.0mm (.6299")	LF	\$ 145.00	43.00	\$ 6,235.00
253	Add Thickness Per 1.5mm -24" (660 LF x 3 = 1980 LF)	LF	\$ 3.00	1980.00	\$ 5,940.00
254	Add Thickness Per 1.5mm -30" (141 LF x 3 = 423 LF)	LF	\$ 5.00	423.00	\$ 2,115.00
255	Add Thickness Per 1.5mm -36" (43 LF x 5 = 215 LF)	LF	\$ 5.00	215.00	\$ 1,075.00
	Inversion Setup				
266	Inversion Setup Charge 15-36" CIPP	EA	\$ 850.00	6.00	\$ 5,100.00
	Earthwork & Grading				
365	Tree Removal 6"- 12"	EA	\$ 500.00	4.00	\$ 2,000.00
366	Tree Removal 13"- 23"	EA	\$ 800.00	2.00	\$ 1,600.00
367	Tree Removal >23"	EA	\$ 1,500.00	1.00	\$ 1,500.00
368	Clear & Grubbing	SY	\$ 9.00	50.00	\$ 450.00
373	Finish Grading	SY	\$ 5.00	50.00	\$ 250.00
375	Debris Removal	CY	\$ 50.00	30.00	\$ 1,500.00

#11.

	Erosion Control				
380	Install & Remove Type C Silt Fence	LF	\$ 6.00	100.00	\$ 600.00
388	Seed & Starw (Permanent Grassing)	SY	\$ 2.00	100.00	\$ 200.00
395	Pine Straw	SY	\$ 2.50	60.00	\$ 150.00
402	Shrub Replacement: 7 gallon, installed	EA	\$ 150.00	8.00	\$ 1,200.00
	Miscellaneous Items				
408	Removal Existing Pipe all Types and Sizes	LF	\$ 65.00	20.00	\$ 1,300.00
423	Remove/Replace 4' Galvanized Chain Link Fence Residential	LF	\$ 20.00	20.00	\$ 400.00
	TOTAL ESTIMATE				\$135,015.05
	20% CONTINGENCY				\$27,003.01
GRAND TOTAL ESTIMATE					\$162,018.06