

PLOTTED BY: Nazad

PRINTED: 1/28/2025 @ 4:15PM

FILE NAME: C:\Users\nazad\AppData\Local\Temp\Ap\Publish - 2316013827-16-Set.dwg

LINE WORK

Lobeville, TN Revised 2024 - Sewer Line & Manhole Rehabilitation Line Work																			
Item	Direction	Upstream	UP Manhole	Downstream	Down Manhole	Distance	Inspection	Diameter	Type of	Line Condition based on Video	Recommendations			CIPP	Point Repair	Heavy	Complete	Restore services	Restore services
No.	of Camera	Manhole	Condition	Manhole	Condition	Feet	Dist (FT)	Inches	Pipe		Point Repair	Line Repair	MH Repair	Footage	Location	Clean	CCTV	Road	Easement
1	Upstream	SR-01	MH is concrete and start of line in easement - School Road	SR-02	MH is concrete in easement	244.6	235	8	VCP	US- BP 2ft 12/12, RMJ-10.7 ft 12/6, RMJ-16.3ft 12/4, FTD-28.4ft RFC 9/, RFJ 33.3ft 4/8, RMJ-66.8ft 3/9, RFJ-122.1 to 148.5 ft 3/9, TFD - RL-connection, RLJ-208.6ft - 1/10, RMJ-219.8ft 2/6, RBJ-235 12/12				245				2	0
1A	Downstream	SR-01	Ditto	SR-02	Ditto	-	9.6	8	VCP	TBI-9.6ft 12/ CCP - end of inspection	1				TBI-9.6ft 12/			1	0
2	Upstream	SR-02	Ditto	SR-03	Concrete MH - deep	250	93.2 (162.4)	8	VCP	US- TFA - 3ft-6/ drop MH, MMC-7.0ft VCP tp PVC, MMC-14.8ft PVC to VCP, RBJ 17.6 ft 6/12, RBJ-93.2ft-12/12 CCP- inspection incomplete		Heavy Clean, CCTV & CIPP		250		250	250	0	0
3	Downstream	SR-02	Ditto	SR-03	Ditto	-	69.2	8	VCP	RMJ-51.2 6/8, TBI-69.2ft 12/ CCP end of inspection	1				TBI-69.2ft 12/			1	0
4	Downstream	TA-08	MH is concrete and in easement.	TA-10	not seen - buried	?	52.5	8	DIP	Sag in line 20ft - 52.5ft CUW, CCP due blockage (rocks) - incomplete			MH TA-10 locate and raise			100	100	0	0
5	Upstream	SR-06	Concrete MH- CNL buried	SR-03	Concrete MH - deep	156.7	156.7	8	VCP	US- BP-3ft 1/5, ISJ-50.4ft 12/12, BPH-IS-57.9ft 3/, MH at 156.7ft		CIPP	Locate MH SR-06 and raise	157		157		0	0
6	Downstream	SR-04	Concrete MH in good condition in easement	SR-05	Concrete MH - roots on bench	142.4	142.4	8	VCP	RBJ-7ft 12/12, RBJ-20.6ft 12/12, RBJ-26.2ft 12/12, RMJ-116ft 12/12, MH at 142.4 ft		CIPP	MH SR-05 - rehab	143			0	0	
7	Upstream	SR-05	ditto	SR-07	Concrete MH in Easement	160	133.3	8	VCP	US- ISJ-11.6ft 12/12, ISJ-20.5ft 12/12, RFJ-45.3ft 12/12, RBJ 85.9ft 12/12, RBJ-111.3ft 12/12, CCP rootball, inspection abandoned (need access to SR-07)		Heavy Clean, CCTV and CIPP	Locate MH SR-07 and raise	160		160	160	0	0
8	Upstream	SR-07	Ditto	SR-08	MH concrete has roots in top portion	361.1	361.1	8	VCP	US- RMJ-6ft 12/12, RMJ-20.4ft 12/12, RMJ-46.5 12/12, RBJ-55.3ft 12/12, RBJ-80.6ft 12/12, roots at most joints up through 150ft, MH at 361.1ft		CIPP	MH SR-08 reha	362			0	0	
9	Downstream	SR-08	Ditto	SR-09	Concrete MH that has evidence of surcharging	236	236	8	VCP	CC-3ft 12/12, RMJ-10.2 ft 7/10, RBJ-80.3ft 1/6, RMJ-126.2 8/4, RMJ-160.4ft - 8/4, RMJ-230ft 7/11. MH at 236ft - Roots had to be cut out to complete inspection		Heavy clean line, CCTV again & CIPP		236		236	236	0	0
10	Downstream	SR-09	ditto	SR-10	MH is shallow and has lots of roots in top portion under F&C	293.5	293.5	8	VCP	RFJ-11.4ft 8/4, RMJ 21.3ft-8/2, RFJ-46.7ft 1/3, RFJ-141.7ft 7/2, RFJ-146.9ft 11/3, RBJ-176.6 12/12, RBJ-207ft 12/12, RMJ-216.6ft 12/12, RMJ-231.7ft 6/1, RMJ-241ft 12/12, RFJ-271.7ft 2/10, CC-291.1ft & RF, MH at 293.5		CIPP	MH SR-10 Replace F&C, rehab	294			0	0	
11	Downstream	SR-13	MH has roots that need to be cleaned out	SR-14	MH is Concrete	306	306	8	VCP	RFJ-3ft 12/12, RFJ-8ft 12/12, RFJ-17.4ft 9/3, RFJ-21.9ft 8/12, RFJ-27.3ft 11/1, RFJ-298.1ft 10/2, MH at 306		CIPP	MH SR-13 rehab	306			0	0	
12	Downstream	SR-15	MH is shallow and Concrete (buried) and has roots growing in bench area where line enters	SR-16	MH is shallow and concrete	249	249	8	VCP	WJ-231.5ft 12/12, MH at 249 ft	1 internal patch		MH SR-15 locate and raise		WJ-231.5ft			0	0
13	Downstream	SR-16	MH is shallow and concrete.	SR-17	MH is shallow and concrete - service enters MH has gusher in joint (needs repair)	201.7	201.7	8	VCP	Gravel & solid deposits in bottom for most of segment, last 70ft cleaned with jetter and looked good - no services or issues seen, MH at 201.7 ft		Heavy clean line	MH SR-17 plug & fill, rehab			202		0	1
14	Downstream	NS-01	Concrete MH - 3 different services entering MH	NS-02	MH is concrete looks good	150.1	150.1	8	VCP	RFJ-67.7ft -2/5, RMJ-72.6ft 3/9, RFJ-87.2ft 12/12, RFJ-107.7ft 12/12, RFJ-127.5ft 3/9, RFJ-132.7ft 6/10, RFJ-137.3ft 12/12, RFJ-142.6ft 3/5, RFJ-146.1ft 12/12, MH at 150.1 ft		CIPP		150				0	
15	Downstream	NS-04	ditto	SR-17	ditto	399.9	399.9	8	VCP	IW at mouth of pipe in MH, MMC-6.0ft VCP to PVC, MMC-12ft PVC to VCP, 5 or 6 ISSR in pipe, TSAI-156.8 12/, TSAI-162.5ft 12/ (a lot of water flowing could be leak), CL- 161-162.5, MMC-299ft VCP to PVC & JOM, MMC-304.8ft PVC to VCP & JOM, RMJ-327.4ft 12/12, RFJ-331.1ft- 4/6, RFJ-336 6/9, RFJ-341ft 3/, MMC-347ft VCP to CP, MMC 352.8ft Cl to VCP, TFA 397.8ft - drop MH, MH at 399.9ft		CIPP		400				0	3
16	Downstream	SR-17	ditto	SR- LS	Wet well - not seen on video	49	43.3	8	DIP	DIP pipe joint is separated from the line entering the wet well. Large gap CCP and gusher at this gap.	1 NONE				Repair gap at wet well			0	0
17	Downstream	1	MH at 8th Ave. in easement. Concrete - no leaks seen	2	MH is concrete and shows signs of surcharging (rags on steps) MH appears to be buried (not found by CCTV crew)	346.2	346.2	8	VCP	CL 25.9 to 26.9 - 3/ IS, ISJ 31.7 ft - 75ft, IG 91.6 ft, TFA 107.8 ft 10/, WJ DEA 109.1 ft 12/12, ISJ-164.3 ft - 12/12, ISJ DEA 233.6 ft, ISJ-284.3 12/12, ISJ 299ft 12/12, ISJ-314.9ft 9/3, ISJ-324.3ft 9/3, MH 346.2		CIPP	MH 2 - locate and raise	346				0	1
18	Downstream	2	ditto - in easement	3	MH 3 in easement concrete and looks like roots in MH. Rags on steps, evidence of surcharging	388	388	8	VCP	ISJ 29.8 ft 8/4, ISJ 64.9 ft -9/3, ISJ 94.7 ft - 8/4, ISJ 145.4 10/2, ISJ DEA 165 ft-7/5, ISJ 190.3 ft-9/2, RBJ 282.5 ft 6/1, RMJ - 286.2 ft 8/4, ISJ 316.9 ft 9/2, ISJ 325.5 ft 9/3, ISJ RFJ 330.9 - 336.9 ft 9/3, ISJ 355.8 ft 7/5, MH -388 ft		CIPP		388				0	
19	Downstream	SM-02	MH is Concrete - looks good	SM-03	MH is Concrete - looks good	497.7	497.7	8	VCP	TFA-37.7ft 9/, TFA-160.8ft 9/, BP-148.4ft 7-9/, MMC-238.7ft VCP to PVC, TFA-241.6ft 12/, MMC-243.1ft PVC to VCP, BP-257.7ft 5-11/, DAE-383.7 12/12, BP-493ft 2/8, TFA-496.7ft 6/ drop MH, MH at 497.7ft		CIPP		500				1	2

MANHOLE WORK

Lobeville, TN Revised 2024 - Sewer Line & Manhole Rehabilitation MANHOLE WORK											
Item No.	Direction of Camera	Upstream Manhole	UP Manhole Condition	Downstream Manhole	Down Manhole Condition	Manhole Rehab					
						MH Repair	Locate & Raise	Plug & Fill	Replace F&C	Rehab	
1	Downstream	TA-08	MH is concrete and in easement.	TA-10	not seen - buried	MH TA-10 locate and raise	1	0	1	0	
2	Upstream	SR-06	Concrete MH- CNL buried	SR-03	Concrete MH - deep	Locate MH SR-06 and raise	1		1		
3	Downstream	SR-04	Concrete MH in good condition in easement	SR-05	Concrete MH - roots on bench	MH SR-05 - rehab				1	
4	Upstream	SR-05	ditto	SR-07	Concrete MH in Easement	Locate MH SR-07 and raise	1				
5	Upstream	SR-07	Ditto	SR-08	MH concrete has roots in top portion	MH SR-08 rehab				1	
6	Downstream	SR-09	ditto	SR-10	MH is shallow and has lots of roots in top portion under F&C	MH SR-10 Replace F&C, rehab			1	1	
7	Downstream	SR-11	Roots in manhole	SR-12	Manhole is shallow and needs to be cleaned of roots	SR-11 and Sr-12 need rehab				2	
8	Downstream	SR-13	MH has roots that need to be cleaned out	SR-14	MH is Concrete	SR-13 needs Rehab					
9	Downstream	SR-15	MH is shallow and Concrete (buried) and has roots growing in bench area where line enters	SR-16	MH is shallow and concrete.	MH SR-15 locate and raise	1			1	
10	Downstream	SR-16	MH is shallow and concrete.	SR-17	MH is shallow and concrete - service enters MH has gusher in joint (needs repair)	MH SR-17 plug & fill, rehab		1		1	
11	Downstream	1	MH at 8th Ave. in easement. Concrete - no leaks seen	2	MH is concrete and shows signs of surcharging (rags on steps) Water dripping from MH and appears to be buried (not found by CCTV crew)	MH 2 - locate and raise	1				
12	Downstream	2	ditto - in easement	3	MH 3 in easement concrete and looks like roots in MH. Rags on steps, evidence of surcharging	MH 3 - rehab				1	
13	Downstream	3	Ditto	4	Manhole is buried	MH 4 - locate and raise	1				
14	Upstream	SM-04	MH-shows infiltration stains, plug & seal and rehab	SM-05	MH needs rehab - water gushing between liner and existing pipe			2		2	



GRW PROJECT NO. 3827-16

ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT IS TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION.



www.grwinc.com

SANITARY SEWER REHABILITATION SUMMARY  
 SANITARY SEWER REHABILITATION  
 CITY OF LOBELVILLE, TENNESSEE

NO	DATE	DESCRIPTION	DESIGNED	BY	DATE	DRAWN	BY	REVIEWED	BY	APPROVED	BY
			RGT			BHH		RGT		RGT	

DATE: SEPTEMBER 2024

SCALE: NONE

SHEET NO.

C-08

CONTRACT DRAWINGS