



MH # 4848-277
Approx depth = 8.6 ft

MH # 4848-276
Approx depth = xx ft

MH # 4848-275
Approx depth = 9.4 ft

MH # 4848-280
Approx depth = 7.5 ft

MH # 4848-279
Approx depth = 8.0 ft

MH # 4848-281
Approx depth = 7.6 ft

MH # 4848-282
Approx depth = xx ft

MH # 4848-283
Approx depth = 8.3 ft

Install 2171 lf of 8" Cured-in-Place Liner
 ' 748 lf from MH 4848-283 to MH 4848-276
 ' 810 lf from MH 4848-281 to MH 4848-277
 ' 613 lf from MH 4848-277 to MH 4848-275

SITE 4





W 9TH ST N

W HICKORY LN

W BIRCH LN

N MURRAY AVE

N WADDINGTON AVE



Television Inspection Master Report

5/15/2009

1:23 PM

US Structure: 4848-283 9100 W BIRCH ST Date Insp: 9/26/2006 Basin: W06A
 DS Structure: 4848-282 9219 W HICKORY LN Dir Televised: Upstream To Downstream

Pipe Information

Shape: Round Length Status: Project No. : K-063
 Dia/Ht: 8 Material: VCP Index:
 Length: 375.0 Slope: 0.400 Surface:

Inspection Information

Crew: 694 Percent Full: 10 Tape ID: DVD #0195
 Weather: Sunny Purpose: TV Existing Line Counter Start:

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Ratings			Remain (gpm)
							Est. (gpm)	Struct	Clean	
1		0.0	US Manhole		1	0.000	0	0	0.000	
2		0.0	Lower Left	Crack-Radial	3	0.000	0	0	0.000	
3		5.0	South	Break-In Conn	1	0.000	0	0	0.000	
9100 WEST BIRCH (rough & jagged tap edges)										
4		5.5	Upper Right	Broken Pipe	4	0.000	0	0	0.000	
5		7.7	North	Wye Service	1	0.000	0	0	0.000	
9101 WEST HICKORY										
6		8.1	Lower Right	Broken Pipe	4	0.000	0	0	0.000	
7		9.1		Sealed Off Wye South	1	0.000	0	0	0.000	
8		14.6	Crown	Crack-Radial	4	0.000	0	0	0.000	
9		27.9			1	0.000	0	0	0.000	
10		31.9	Lower Right	Broken Pipe	3	0.000	0	0	0.000	
11		32.7	Lower Left	Crack-Radial	4	0.000	0	0	0.000	
12		38.2	Lower Left	Crack-Horizontal	3	0.000	0	0	0.000	
13		41.3	Crown	Crack-Radial	4	0.000	0	0	0.000	
14		46.4	Invert / Offset Joint	Broken Pipe	3	0.000	0	0	0.000	
15		47.9	Lower Right	Crack-Horizontal	3	0.000	0	0	0.000	
16		58.4	Lower Left	Crack-Horizontal	3	0.000	0	0	0.000	
17		59.8	Crown	Crack-Radial	4	0.000	0	0	0.000	
18		62.2	Lower Right	Crack-Horizontal	3	0.000	0	0	0.000	
19		63.5	South	Break-In Conn	1	0.000	0	0	0.000	
9112 WEST BIRCH										
20		63.5		Sealed Off Wye North	1	0.000	0	0	0.000	
21		73.2		Sealed Off Wye South	1	0.000	0	0	0.000	
22		77.9	Joint	Roots	3	0.008	5	8	0.008	
23		79.4	North	Break-In Conn	4	0.000	0	0	0.000	
9111 WEST HICKORY / heavy roots around outside of tap										
24		81.8	Crown							

Comment: POINT REPAIR MADE

Television Inspection Master Report

5/15/2009

1:23 PM

US Structure: 4848-283 9100 W BIRCH ST Date Insp: 9/26/2006 Basin: W06A
 DS Structure: 4848-282 9219 W HICKORY LN Dir Televised: Upstream To Downstream

25	98.3	Upper Right	Broken Pipe	3	0.000	0	0	0.000
26	106.7	Lower Right	Broken Pipe	3	0.000	0	0	0.000
27	139.7	North	Wye Service	4	0.000	0	0	0.000
9121 WEST HICKORY			Comment: ROOTS, 9121 WEST HICKORY					
28	149.5		Sealed Off Wye South	1	0.000	0	0	0.000
29	174.1	Offset Joint	Broken Pipe	4	0.000	0	0	0.000
30	178.1	Start	Sag starts	3	0.000	5	0	0.000
31	185.5	End	Sag ends	1	0.000	1	0	0.000
32	189.0	South	Break-In Conn	1	0.000	0	0	0.000
9122 WEST BIRCH								
33	203.9	North	Break-In Conn	4	0.000	0	0	0.000
9201 WEST HICKORY			Comment: ROOTS, 9201 WEST HICKORY					
34	219.5		Sealed Off Wye North	1	0.000	0	0	0.000
35	231.8	Lower Right	Broken Pipe	4	0.000	0	0	0.000
36	240.8	South	Wye Service	1	0.000	0	0	0.000
9200 WEST BIRCH								
37	245.7	Wye Service	Roots	3	0.008	5	8	0.008
38	270.1	Upper Right	Broken Pipe	4	0.000	0	0	0.000
39	306.8	North	Wye Service	4	0.000	0	0	0.000
9211 WEST HICKORY			Comment: ROOTS, 9211 WEST HICKORY					
40	316.8	Lower Right	Broken Pipe	3	0.000	0	0	0.000
41	326.4	South	Break-In Conn	4	0.000	0	0	0.000
9210 WEST BIRCH			Comment: ROOTS, 9210 WEST BIRCH					
42	328.6		Sealed Off Wye South	1	0.000	0	0	0.000
43	357.5	Lower Right	Broken Pipe	4	0.000	0	0	0.000
44	369.2	Upper Left	Crack-Radial	4	0.000	0	0	0.000
45	372.7	DS Manhole / 4848-282		1	0.000	0	0	0.000
9219 WEST HICKORY			Comment: BRICK COMING OUT OF WALL OF MANHOLE					

Television Inspection Master Report

5/15/2009

1:23 PM

US Structure: 4848-282
DS Structure: 4848-276

9219 W HICKORY LN
9319 W HICKORY ST

Date Insp: 9/26/2006
Dir Televised: Upstream To Downstream

Basin: W06A

Pipe Information

Shape: Round Length Status: Project No. : K-063
Dia/Ht: 8 Material: VCP Index:
Length: 375.0 Slope: 0.400 Surface:

Inspection Information

Crew: 694 Percent Full: 10 Tape ID: DVD #0195
Weather: Sunny Purpose: TV Existing Line Counter Start:

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Ratings			Remain (gpm)
							Est. (gpm)	Struct	Clean	
1		0.0	US Manhole		1		0.000	0	0	0.000
2		28.9	North	Break-In Conn	1		0.000	0	0	0.000
9219 WEST HICKORY										
3		42.0	South	Break-In Conn	1		0.000	0	0	0.000
9220 WEST BIRCH										
4		43.9		Sealed Off Wye South	1		0.000	0	0	0.000
5		97.0	North	Wye Service	1		0.000	0	0	0.000
9229 WEST HICKORY										
6		100.0	Lower Right	Broken Pipe	3		0.000	0	0	0.000
7		127.1	Cracks at wye	Sealed Off Wye South	3		0.003	0	0	0.003
8		129.4	South	Break-In Conn	1		0.000	0	0	0.000
9230 WEST BIRCH										
9		173.6	North	Wye Service	4		0.000	0	0	0.000
9301 WEST HICKORY										
10		194.1	Joint	Roots	3		0.008	5	8	0.008
Comment: ROOTS, 9301 WEST HICKORY										
11		215.6	South	Break-In Conn	1		0.000	0	0	0.000
9300 WEST BIRCH										
12		226.4		Sealed Off Wye South	1		0.000	0	0	0.000
13		252.9	North	Wye Service	3		0.000	0	0	0.000
9309 WEST HICKORY										
14		304.9		Roots	3		0.008	5	8	0.008
Comment: ROOTS, 9309 WEST HICKORY										
15		315.8	South	Break-In Conn	1		0.000	0	0	0.000
9314 WEST BIRCH										
16		322.1	South	Wye Service	5		0.000	0	0	0.000
APPEARS ABANDON										
17		328.6	North	Wye Service	1		0.000	0	0	0.000
9319 WEST HICKORY										
18		361.0	Joint	Roots	3		0.008	5	8	0.008
19		364.7	Joint	Roots	3		0.008	5	8	0.008
20		372.2	DS Manhole	4848-276						(couple of sag areas, but sags not bad)

Television Inspection Master Report

2/22/2010

2:43 PM

US Structure: 4848-281
DS Structure: 4848-280

9100 W BIRCH ST
9210 W HICKORY ST

Date Insp: 8/11/2009
Dir Televised: Upstream To Downstream

Basin: W06A

Pipe Information

Shape: Round	Length Status:	Project No. : K-063
Dia/Ht: 8	Material: VCP	Index:
Length: 265.0	Slope: 0.400	Surface:

Inspection Information

Crew: 692	Percent Full:	DVD #0508
		Tape ID:

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Ratings			Remain (gpm)
							Est. (gpm)	Struct	Clean	
1		0.0		US Manhole 4848-281	1	0.000	0	0	0.000	
9100 W BIRCH										
2		1.0		Roots	1	0.002	1	1	0.002	
3		3.1	S	Break-In Conn	1	0.001	0	0	0.001	
9100 W HICKORY										
4		6.0	N	Break-In Conn	3	0.004	2	0	0.004	
9101 W 9TH ST N										
5		8.0		Sealed Off Wye	1	0.000	0	0	0.000	
6		13.3	Joint	Offset	2	0.000	0	0	0.000	
7		14.4		Sealed Off Wye	1	0.000	0	0	0.000	
8		23.0		Roots	1	0.002	1	1	0.002	
9		27.4	Offset Joint	Roots	2	0.004	2	4	0.004	
10		40.2		Roots	1	0.002	1	1	0.002	
11		51.3		Roots	1	0.002	1	1	0.002	
12		54.0	N	Break-In Conn	2	0.002	0	0	0.002	
9111 W 9TH ST N										
13		55.4		Roots	2	0.004	2	4	0.004	
14		57.2		Sealed Off Wye	1	0.000	0	0	0.000	
15		62.0		Roots	1	0.002	1	1	0.002	
16		64.5	S	Break-In Conn	1	0.001	0	0	0.001	
9112 W HICKORY										
17		66.6		Roots	1	0.002	1	1	0.002	
18		66.6		Sealed Off Wye	1	0.000	0	0	0.000	
19		72.5		Roots	1	0.002	1	1	0.002	
20		76.9		Roots	1	0.002	1	1	0.002	
21		132.8		Sealed Off Wye	1	0.000	0	0	0.000	
22		142.5		Roots	1	0.002	1	1	0.002	
23		143.3	N	Break-In Conn	2	0.002	0	0	0.002	
9119 W 9TH ST N										
24		144.6		Sealed Off Wye	2	0.000	0	0	0.000	
CRACKS										

Television Inspection Master Report

2/22/2010

2:43 PM

US Structure: 4848-281 9100 W HICKORY ST Date Insp: 8/11/2009 Basin: W06A
 DS Structure: 4848-280 9210 W HICKORY ST Dir Televised: Upstream To Downstream

25	145.8 S	Break-In Conn	2	0.002	0	0	0.002
9122 W HICKORY							
26	172.0 Joint	Offset	1	0.000	0	0	0.000
27	172.8	Sag	3	0.000	5	0	0.000
28	177.1	Sag	4	0.000	10	0	0.000
29	180.6	Roots	1	0.002	1	1	0.002
30	180.6	Sag	1	0.000	1	0	0.000
31	180.6	Crack-Radial	2	0.002	2	0	0.002
32	185.3	Sag	1	0.000	1	0	0.000
33	187.6	Crack-Radial	2	0.002	2	0	0.002
34	217.2 N	Wye Service	2	0.000	0	0	0.000
9201 W 9TH ST N							
35	218.8	Crack-Radial	3	0.004	5	0	0.004
36	234.8 S	Wye Service	1	0.000	0	0	0.000
9200 W HICKORY							
37	253.8	Crack-Radial	3	0.004	5	0	0.004
38	261.8 Joint	Offset	2	0.000	0	0	0.000
39	236.3	Sag	1	0.000	1	0	0.000
40	245.4	Sag	1	0.000	1	0	0.000
	261.0 Offset Joint						
41	265.0	DS Manhole 4848-280	1	0.000	0	0	0.000
9210 W HICKORY							

Television Inspection Master Report

2/22/2010

2:43 PM

US Structure: 4848-280
DS Structure: 4848-279

9210 W HICKORY ST
9301 W 9TH ST N

Date Insp: 8/11/2009
Dir Televised: Upstream To Downstream

Basin: W06A

Pipe Information

Shape: Round Length Status: Project No. : K-063
Dia/Ht: 8 Material: VCP Index:
Length: 275.0 Slope: 0.400 Surface:

Inspection Information

Crew: 692 Percent Full: Tape ID: DVD #0508

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Ratings			Remain (gpm)
							Est. (gpm)	Struct	Clean	
1		0.0		US Manhole 4848-280	1		0.000	0	0	0.000
9210 W HICKORY										
2		18.8		Roots	1		0.002	1	1	0.002
3		23.3		Roots	1		0.002	1	1	0.002
4		27.4		Roots	2		0.004	2	4	0.004
5		29.8	N	Wye Service	4		0.000	60	0	0.000
9209 W 9TH ST N / roots inside										
6		38.6		Roots	1		0.002	1	1	0.002
7		41.5	S	Wye Service	4		0.000	60	0	0.000
9210 W HICKORY / roots inside										
8		57.8		Crack-Radial	2		0.002	2	0	0.002
9		61.3		Roots	1		0.002	1	1	0.002
10		64.9		Roots	1		0.002	1	1	0.002
11		67.8		Roots	2		0.004	2	4	0.004
12		72.6		Roots	2		0.004	2	4	0.004
13		72.6		Crack-Horizontal / roots	3		0.004	5	0	0.004
14		87.7		Roots	1		0.002	1	1	0.002
15		91.8		Roots	1		0.002	1	1	0.002
16		107.9	S	Break-In Conn	3		0.004	2	0	0.004
9220 W HICKORY										
17		114.1		Sealed Off Wye	1		0.000	0	0	0.000
18		114.1		Roots	1		0.002	1	1	0.002
19		119.4	N	Break-In Conn	3		0.004	2	0	0.004
9217 W 9TH ST N										
20		136.8		Broken Pipe	3		0.010	60	0	0.010
21		140.1		Roots	1		0.002	1	1	0.002
22		140.5		Sealed Off Wye	1		0.000	0	0	0.000
23		140.5		Roots	1		0.002	1	1	0.002
24		145.3		Broken Pipe	2		0.008	44	0	0.008
25		156.3		Roots	1		0.002	1	1	0.002



Television Inspection Master Report

2/22/2010

2:43 PM

US Structure: 4848-280 9210 W HICKORY ST Date Insp: 8/11/2009 Basin: W06A
 DS Structure: 4848-279 9301 W 9TH ST N Dir Televised: Upstream To Downstream

26	164.8		Crack-Horizontal	1	0.001	1	0	0.001
27	169.0		Crack-Radial	2	0.002	2	0	0.002
28	174.8		Crack-Radial	3	0.004	5	0	0.004
29	186.7	N	Break-In Conn	2	0.002	0	0	0.002
9225 W 9TH ST N								
30	186.8		Roots	1	0.002	1	1	0.002
31	194.1		Roots	1	0.002	1	1	0.002
32	203.4		Roots	1	0.002	1	1	0.002
33	209.8		Roots	2	0.004	2	4	0.004
34	215.2	S	Wye Service	1	0.000	0	0	0.000
9228 W HICKORY								
35	216.9		Crack-Radial	2	0.002	2	0	0.002
ROOTS								
36	220.5		Roots	1	0.002	1	1	0.002
37	223.9		Roots	1	0.002	1	1	0.002
38	244.5		Crack-Radial	2	0.002	2	0	0.002
39	255.1		Stopped Inspection	1	0.000	0	0	0.000

Comments: TRACTOR QUIT WORKING AT 255 FEET WEST OF M.H 280. NOT A PROBLEM WITH THE SEWER PIPE

REVERSE SETUP:

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Ratings			Remain (gpm)
							Est. (gpm)	Struct	Clean	
1		0.0		4848-279 DS Manhole	1		0.000	0	0	0.000
9301 W 9TH ST N										
2		12.8	Joint	Offset	4		0.030	60	0	0.030
3		8.7	N	Break-In Conn	1		0.001	0	0	0.001
9301 W 9TH ST N										
4		3.0		Sag	1		0.000	1	0	0.000
5		4.0		Sag	4		0.000	10	0	0.000
6		11.0		Sag	1		0.000	1	0	0.000
7		11.4		Sag	1		0.000	1	0	0.000
8		12.6		Stopped Inspection / same place as above	1		0.000	0	0	0.000

Television Inspection Master Report

2/23/2010

7:38 AM

US Structure: 4848-279 9301 W 9TH ST N Date Insp: 8/12/2009 Basin: W06A
 DS Structure: 4848-277 972 N MURRAY ST Dir Televised: Upstream To Downstream

Pipe Information

Shape: Round Length Status: Project No. : K-063
 Dia/Ht: 8 Material: VCP Index:
 Length: 275.0 Slope: 0.400 Surface:

Inspection Information

Crew: 692 Percent Full: DVD #0508
 Tape ID:

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Ratings		Remain (gpm)	
							Est. (gpm)	Struct Clean		
1		0.0		4848-279 US Manhole						
2		34.8		Sealed Off Wye	1	0.000	0	0	0.000	
3		38.6	S	Break-In Conn	1	0.001	0	0	0.001	
9300 W HICKORY										
4		41.5		Crack-Horizontal	4	0.008	10	0	0.008	
5		56.5		Crack-Radial	2	0.002	2	0	0.002	
6		59.0		Roots	1	0.002	1	1	0.002	
7		63.4		Roots	1	0.002	1	1	0.002	
8		66.7		Roots	1	0.002	1	1	0.002	
9		78.9		Roots	1	0.002	1	1	0.002	
10		85.0	N	Wye Service	5	0.000	400	0	0.000	
9309 W 9TH ST N										
11		85.1		Roots	2	0.004	2	4	0.004	
12		92.7		Roots	2	0.004	2	4	0.004	
13		96.7		Roots	1	0.002	1	1	0.002	
14		100.1		Roots	1	0.002	1	1	0.002	
15		105.3		Broken Pipe	3	0.010	60	0	0.010	
16		112.1		Roots	1	0.002	1	1	0.002	
17		122.4		Sealed Off Wye	1	0.000	0	0	0.000	
18		126.9		Mat. Chngs to PVC	1	0.000	0	0	0.000	
19		128.5	S	Break-In Conn	1	0.001	0	0	0.001	
9312 S HICKORY / PVC										
20		130.4		Mat. Chngs back to VCP	1	0.000	0	0	0.000	
21		138.7		Crack-Radial	2	0.002	2	0	0.002	
22		154.9		Roots	1	0.002	1	1	0.002	
23		156.8		Sealed Off Wye	1	0.000	0	0	0.000	
24		157.0		Roots	1	0.002	1	1	0.002	

Television Inspection Master Report

2/23/2010

7:38 AM

US Structure: 4848-279 9301 W 9TH ST N Date Insp: 8/12/2009 Basin: W06A
 DS Structure: 4848-277 972 N MURRAY ST Dir Televised: Upstream To Downstream

25	161.0 N	Break-In Conn	3	0.004	2	0	0.004
9315 W 9TH ST N / full of roots							
26	165.1	Roots	1	0.002	1	1	0.002
27	168.6	Crack-Radial	2	0.002	2	0	0.002
28	221.5	Sealed Off Wye	1	0.000	0	0	0.000
29	225.1	Crack-Radial	2	0.002	2	0	0.002
30	227.6 N	Break-In Conn	1	0.001	0	0	0.001
9323 W 9TH ST N							
31	236.1	Sealed Off Wye	1	0.000	0	0	0.000
32	238.1 S	Break-In Conn	1	0.001	0	0	0.001
9320 W HICKORY							
33	252.9	Crack-Radial	2	0.002	2	0	0.002
38	258.7	Sag begins	1	0.000	1	0	0.000
39	260.8	Sag	4	0.000	10	0	0.000
40	265.8	Sag / camera submerged	1	0.000	1	0	0.000
41	269.4	Sag camera emerged	1	0.000	1	0	0.000
42	270.1 Offset Joint	Crack-Radial / sag ends	4	0.008	10	0	0.008
43	273.2	4848-277 DS Manhole	1	0.000	0	0	0.000
972 N MURRAY							

Due to lack of funding, the sag within the downstream 20 lf will not be replaced prior to liner installation.

Television Inspection Master Report

8/10/2010

1:44 PM

US Structure: 4848-277
DS Structure: 4848-276

972 N MURRAY ST
9319 W HICKORY ST

Date Insp: 7/30/2009
Dir Televised: Upstream To Downstream

Basin: W06A

Pipe Information

Shape: Round Project No. : K-063 Dia/Ht: 8 Material: VCP
Length: 309.0 Slope: 0.400 Crew: 692 Tape ID: DVD #0504

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Ratings		Remain (gpm)	
							Est. (gpm)	Struct Clean		
1		0.0		4848-277 / US Manhole						
2		2.0		Sealed Off Wye	1	0.000	0	0	0.000	
3		26.7		Break-In Conn	3	0.004	2	0	0.004	
972 N MURRY										
4		37.3		Roots	3	0.008	5	8	0.008	
5		74.5		Roots	2	0.004	2	4	0.004	
6		82.9		Roots	3	0.008	5	8	0.008	
7		94.6		Roots	1	0.002	1	1	0.002	
8		110.6		Break-In Conn	1	0.001	0	0	0.001	
964 N MURRY										
9		116.4		Roots	1	0.002	1	1	0.002	
10		128.0		Roots	2	0.004	2	4	0.004	
11		136.1		Roots	1	0.002	1	1	0.002	
12		141.4		Roots	2	0.004	2	4	0.004	
13		156.3		Roots	1	0.002	1	1	0.002	
14		157.0		Crack-Horizontal	1	0.001	1	0	0.001	
15		165.0		Roots	1	0.002	1	1	0.002	
16		168.3		Roots	1	0.002	1	1	0.002	
17		177.9		Roots	1	0.002	1	1	0.002	
18		203.9		Roots	1	0.002	1	1	0.002	
19		215.0		Crack-Radial	1	0.001	1	0	0.001	
20		223.6		Roots	1	0.002	1	1	0.002	
21		240.8		Roots	1	0.002	1	1	0.002	
22		250.0		Sealed Off Wye	1	0.000	0	0	0.000	
23		258.2		Roots	1	0.002	1	1	0.002	
24		262.9		Roots	1	0.002	1	1	0.002	
25		267.4		Break-In Conn	1	0.001	0	0	0.001	
950 N MURRY										
26		305.2		4848-276 / DS Manhole	1	0.000	0	0	0.000	
9319 W HICKORY										

Television Inspection Master Report

8/10/2010

1:44 PM

US Structure: 4848-276 9319 W HICKORY ST Date Insp: 7/30/2009 Basin: W06A
 DS Structure: 4848-275 912 N MURRAY ST Dir Televised: Upstream To Downstream

Pipe Information

Shape: Round Length Status: Project No. : K-063
 Dia/Ht: 8 Material: VCP Index:
 Length: 308.0 Slope: 0.400 Surface:

Inspection Information

Crew: 692 Tape ID: DVD #0504

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Ratings			Remain (gpm)
							Est. (gpm)	Struct	Clean	
1		0.0		4848-276 / US Manhole	1		0.000	0	0	0.000
9319 W HICKORY										
2		21.1	W	Wye Service	1		0.000	0	0	0.000
942 N MURRY										
3		35.2		Roots	1		0.002	1	1	0.002
4		47.7		Roots	1		0.002	1	1	0.002
5		58.6		Roots	1		0.002	1	1	0.002
6		105.5	W	Wye Service	2		0.000	0	0	0.000
930 N MURRY										
7		146.6		Crack-Radial	2		0.002	2	0	0.002
8		162.4		Roots	1		0.002	1	1	0.002
9		165.3		Roots	2		0.004	2	4	0.004
10		173.5		Sag	1		0.000	1	0	0.000
11		173.5		Sag	5		0.000	25	0	0.000
12		177.9		Sag	1		0.000	1	0	0.000
13		177.9		Sag	1		0.000	1	0	0.000
14		177.9		Roots	1		0.002	1	1	0.002
15		181.9		Roots	1		0.002	1	1	0.002
16		186.4		Roots	3		0.008	5	8	0.008
17		206.8		Roots	1		0.002	1	1	0.002
18		208.8		Crack-Radial	2		0.002	2	0	0.002
19		210.2		Roots	2		0.004	2	4	0.004
20		211.1		Crack-Radial	2		0.002	2	0	0.002
21		241.1	W	Wye Service	5		0.000	400	0	0.000
920 N MURRY										
22		256.8		Roots	1		0.002	1	1	0.002
23		264.6		Roots	1		0.002	1	1	0.002
24		269.2		Roots	2		0.004	2	4	0.004
25		273.4		Roots	2		0.004	2	4	0.004
26		297.9		Crack-Radial	3		0.004	5	0	0.004
27		304.9		4848-275 / DS Manhole	1		0.000	0	0	0.000