

9-1

MH # 5548-419
Replace Manhole Frame & Cover
Rework Manhole Bench & Invert
Approx depth = 6.4 ft

Storm Water Sewer Manhole:
Sanitary sewer pipe runs through a storm water sewer manhole in 9th Street (18" SWS).
Any damage to the storm manhole shall be repaired and the cost shall be incidental.

Remove and replace 545 lf of 8" pipe from MH 5548-419 to MH 5548-412.
Contractor shall use one joint of C-900 pipe through the storm water sewer manhole. Cost difference for C-900 pipe shall be incidental.

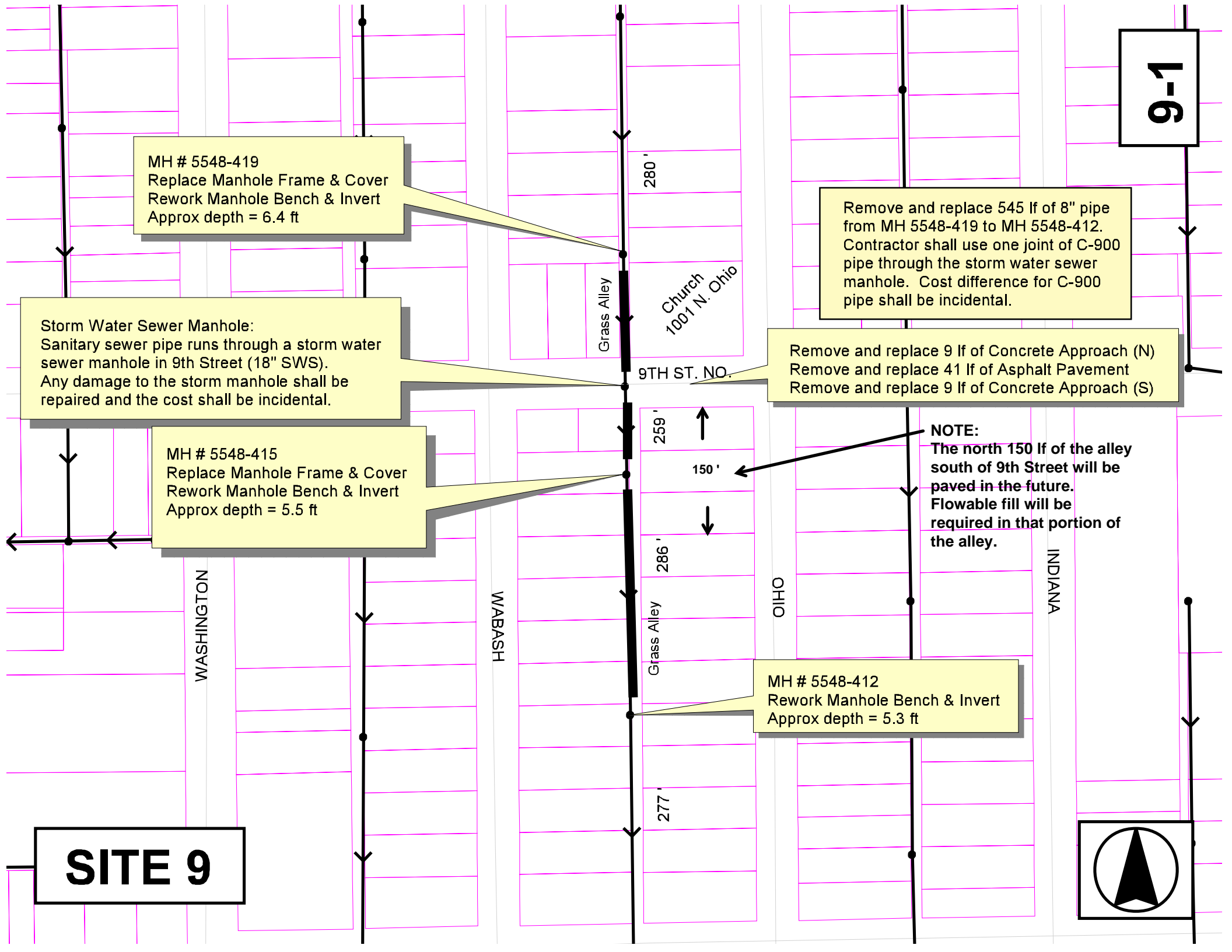
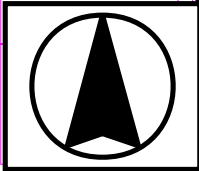
Remove and replace 9 lf of Concrete Approach (N)
Remove and replace 41 lf of Asphalt Pavement
Remove and replace 9 lf of Concrete Approach (S)

MH # 5548-415
Replace Manhole Frame & Cover
Rework Manhole Bench & Invert
Approx depth = 5.5 ft

NOTE:
The north 150 lf of the alley south of 9th Street will be paved in the future.
Flowable fill will be required in that portion of the alley.

MH # 5548-412
Rework Manhole Bench & Invert
Approx depth = 5.3 ft

SITE 9



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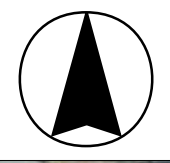
CHURCH

9TH ST. NORTH

WABASH

OHIO

Aerial View



Television Inspection Master Report

10/31/2003
11:26:10AM
C03C

US Manhole: 5548-419
DS Manhole: 5548-415

1001 N OHIO ST

Date Insp: 10/22/2003

Basin:

Dir Televised: Upstream To Downstream

Pipe Information

Shape: Round Length Status: Project No.: B-119
Dia/Ht Width: 8 0 Material: VCP Index:
Length: 259 Slope: 0.096 Surface:
Pipe Sec Length: Comment:

Inspection Information

Crew: 692 Percent Full: 10 Tape ID: 4107
Weather: Sunny Purpose: TV Existing Line Counter Start: 0.0
Surface Cond: Trees & Fences Flow: Normal Flow Counter Stop:
Dyed Test: No

Maintenance Prior to TV:

Cleaned: -1 Degrease: 0 Point Repair: 0 Manhole Replace: 0
Root Cut: 0 Root Chem: 0 Other:
Overall Cond: Fair Total Remaining Rating
Collapsed/Blk: Y Structural: 497 497 318.6
Max Obs #: 36 Flow: 0.120 0.120 0.077
Max Obs Length: 156.0 Cleaning: 0 0 0.0
Comment:

Obs. #	VTR Counter Comment	Dist	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings			
								Struct	Clean	Remain (gpm)	
1		0.0	US Manhole 5548-419							0.000	
2		10.0	Quad 1 / U-Rt	Crack-Radial	3		0.004	5	0	0.004	
3		12.0	West	Wye Service	2		0.000	0	0	0.000	
			LIVE CONNECTION-----1104 E 9TH								
4		14.0	East	Wye Service / Sealed Off	1		0.000	0	0	0.000	
5		19.0	West	Wye Service	1		0.000	0	0	0.000	
			LIVE CONNECTION-----1104 E 9TH								
6		20.0	East	Break-In Conn / Sealed	1		0.001	0	0	0.001	
7		21.0	Crown	Broken Pipe	3		0.010	60	0	0.010	
8		27.0	Crown	Crack-Radial	3		0.004	5	0	0.004	
9		30.0	Crown	Crack-Radial	3		0.004	5	0	0.004	
10		37.0	West	Wye Service / Sealed	1		0.000	0	0	0.000	
11		40.0	East	Wye Service / Sealed	1		0.000	0	0	0.000	
12		46.0	Crown	Crack-Radial	3		0.004	5	0	0.004	
13		50.0	Crown	Broken Pipe	2		0.008	44	0	0.008	
14		53.0	Invert	Broken Pipe	3		0.010	60	0	0.010	
15		55.0	Invert	Broken Pipe	2		0.008	44	0	0.008	
16		58.0	Quad 3 / L-Lt	Crack-Radial	3		0.004	5	0	0.004	
17		62.0	West	Wye Service / Sealed	1		0.000	0	0	0.000	
18		65.0	East	Wye Service / Sealed	1		0.000	0	0	0.000	
19		71.0	Quad 1 / U-Rt	Crack-Horizontal	3		0.004	5	0	0.004	
20		75.0	Crown	Observation Hole	1		0.000	0	0	0.000	
21		77.0	Invert	Broken Pipe	3		0.010	60	0	0.010	
22		85.0	West	Wye Service	1		0.000	0	0	0.000	
			LIVE CONNECTION-----1104 E 9TH								
23		87.0	East	Wye Service / Sealed	1		0.000	0	0	0.000	
24		97.0	Crown	Broken Pipe	3		0.010	60	0	0.010	
25		103.0	East	Break-In Conn	1		0.001	0	0	0.001	
			LIVE CONNECTION-----1001 E 9TH								

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Television Inspection Master Report

10/31/2003
11:26:10AM

US Manhole: 5548-419 1001 N OHIO ST Date Insp: 10/22/2003 Basin: C03C
DS Manhole: 5548-415

26	105.0	Invert	Crack-Horizontal	3	0.004	5	0	0.004
27	108.0	Invert	Broken Pipe	2	0.008	44	0	0.008
28	113.0	West	Wye Service	1	0.000	0	0	0.000
LIVE CONNECTION-----1104 E 9TH								
29	115.0	East	Wye Service / Sealed	1	0.000	0	0	0.000
30	118.0	Quad 4 / U-Lt	Crack-Radial	3	0.004	5	0	0.004
31	126.0	Quad 1 / U-Rt	Crack-Radial	3	0.004	5	0	0.004
32	128.0	Quad 2 / L-Rt	Broken Pipe	3	0.010	60	0	0.010
33	131.0	Quad 2 / L-Rt	Crack-Horizontal	3	0.004	5	0	0.004
34	151.0	Quad 1 / U-Rt	Crack-Radial	3	0.004	5	0	0.004
35	153.0	Joint	Other	2	0.000	0	0	0.000
CAST IRON PIPE-----CORROSION								
36	156.0	Camera Blocked	Corrosion / where sanitary runs through a SWS manhole in 9th Street					

REVERSE SETUP:

US Manhole: 5548-419 1111 E 9TH ST Date Insp: 10/23/2003 Basin: C03C
DS Manhole: 5548-415 954 N WABASH ST
Dir Televised: Downstream To Upstream

1	0.0	DS Manhole / 5548-415 / TV AGAINST THE FLOW						0.000
2	4.0	Quad 4 / U-Lt	Crack-Radial	3	0.004	5	0	0.004
3	11.0	East	Wye Service	2	0.000	0	0	0.000
LIVE CONNECTION-----945 N OHIO								
4	14.0	West	Wye Service / Sealed	1	0.000	0	0	0.000
5	30.0	West	Break-In Conn	2	0.002	0	0	0.002
LIVE CONNECTION-----942 N WABASH								
6	31.0	West	Wye Service / Sealed	1	0.000	0	0	0.000
7	36.0	East	Wye Service / Sealed	1	0.000	0	0	0.000
8	41.0	Quad 2 / L-Rt	Crack-Radial	3	0.004	5	0	0.004
9	51.0	Quad 2 / L-Rt	Broken Pipe	2	0.008	44	0	0.008
10	56.0	Quad 4 / U-Lt	Broken Pipe	2	0.008	44	0	0.008
11	59.0	East	Wye Service	2	0.000	0	0	0.000
LIVE CONNECTION-----949 N OHIO								
12	62.0	West	Wye Service / Sealed	1	0.000	0	0	0.000
13	74.0	Quad 3 / L-Lt	Broken Pipe	2	0.008	44	0	0.008
14	79.0	Crown	Broken Pipe	2	0.008	44	0	0.008
15	92.0	Crown	Observation Hole	1	0.000	0	0	0.000
16	95.0	Crown	Broken Pipe	2	0.008	44	0	0.008
17	100.0	CAST IRON PIPE / CORROSION / same place as above where pipe goes through SWS manhole						

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Television Inspection Master Report

10/31/2003
11:26:10AM

US Manhole: 5548-415 954 N WABASH ST Date Insp: 10/23/2003 Basin: C03C
DS Manhole: 5548-412

Dir Televised: Upstream To Downstream

Pipe Information

Shape: Round Length Status: Project No.: B-119
Dia/Ht Width: 8 0 Material: VCP Index:
Length: 285.5 Slope: 0.098 Surface:
Pipe Sec Length: Comment:

Inspection Information

Crew: 692 Percent Full: 10 Tape ID: 4107
Weather: Sunny Purpose: TV Existing Line Counter Start: 23.48
Surface Cond: Trees & Fences Flow: Normal Flow Counter Stop:
Dyed Test: No

Obs. #	VTR Counter Comment	Dist	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct	Clean	Remain (gpm)
1		0.0	US Manhole / 5548-415							0.000
2		16.0	West	Wye Service	2		0.000	0	0	0.000
			LIVE CONNECTION---942 N WABASH							
3		17.0	Joint	Roots	2		0.004	2	4	0.004
4		18.0	East	Wye Service / Sealed	1		0.000	0	0	0.000
5		21.0	West	Wye Service	1		0.000	0	0	0.000
			LIVE CONNECTION----942 N WABASH							
6		22.0	Crown	Broken Pipe	4		0.030	78	0	0.030
7		27.0	Quad 1 / U-Rt	Crack-Radial	3		0.004	5	0	0.004
8		32.0	Joint	Roots	2		0.004	2	4	0.004
9		41.0	West	Wye Service	1		0.000	0	0	0.000
			LIVE CONNECTION-----938 N WABASH							
10		42.0	Quad 1 / U-Rt	Crack-Radial	3		0.004	5	0	0.004
11		43.0	East	Wye Service	1		0.000	0	0	0.000
			LIVE CONNECTION---941 N OHIO							
12		44.0	Quad 2 / L-Rt	Crack-Radial	3		0.004	5	0	0.004
13		66.0	West	Wye Service / Sealed	1		0.000	0	0	0.000
14		67.0	Joint	Roots	2		0.004	2	4	0.004
15		68.0	East	Wye Service / Sealed	1		0.000	0	0	0.000
16		77.0	Quad 4 / U-Lt	Crack-Radial	3		0.004	5	0	0.004
17		79.0	Quad 2 / L-Rt	Crack-Radial	3		0.004	5	0	0.004
			Poor grade / flow is not moving							
18		82.0	Joint	Roots	2		0.004	2	4	0.004
19		87.0	Joint	Roots	2		0.004	2	4	0.004
20		88.0	Crown	Observation Hole	1		0.000	0	0	0.000
21		89.0	Joint	Roots	2		0.004	2	4	0.004
22		91.0	West	Wye Service / Sealed	1		0.000	0	0	0.000
23		92.0	Joint	Roots	2		0.004	2	4	0.004
24		93.0	East	Wye Service	2		0.000	0	0	0.000
			LIVE CONNECTION----939 N OHIO							
25		94.0	Joint	Roots	2		0.004	2	4	0.004
26		97.0	Joint	Roots	3		0.008	5	8	0.008
27		99.0	Joint	Roots	3		0.008	5	8	0.008
28		102.0	Joint	Roots	2		0.004	2	4	0.004
29		103.0	Quad 4 / U-Lt	Crack-Radial	3		0.004	5	0	0.004
30		104.0	Joint	Roots	3		0.008	5	8	0.008
31		109.0	Invert	Crack-Horizontal	3		0.004	5	0	0.004

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Television Inspection Master Report

10/31/2003
11:26:10AM
C03C

US Manhole: 5548-415 954 N WABASH ST Date Insp: 10/23/2003

Basin: C03C

32	112.0	Joint	Roots	2	0.004	2	4	0.004
33	114.0	Joint	Roots	2	0.004	2	4	0.004
34	116.0	West	Wye Service	1	0.000	0	0	0.000
LIVE CONNECTION-----932 N WABASH								
35	119.0	East	Wye Service / Sealed	1	0.000	0	0	0.000
36	122.0	Crown	Broken Pipe	2	0.008	44	0	0.008
37	124.0	Joint	Roots	2	0.004	2	4	0.004
38	126.0	Crown	Broken Pipe	2	0.008	44	0	0.008
39	140.0	Quad 3 / L-Lt	Crack-Radial	3	0.004	5	0	0.004
40	141.0	West	Wye Service / Sealed	1	0.000	0	0	0.000
41	142.0	Quad 1 / U-Rt	Crack-Radial	3	0.004	5	0	0.004
42	143.0	East	Wye Service	1	0.000	0	0	0.000
LIVE CONNECTION-----937 N OHIO								
43	149.0	West	Wye Service	1	0.000	0	0	0.000
LIVE CONNECTION-----928 N WABASH								
44	150.0	Crown	Broken Pipe	4	0.030	78	0	0.030
45	161.0	West	Extended Tap	2	0.002	0	0	0.002
LIVE CONNECTION-----928 N WABASH								
46	164.0	Joint	Roots	2	0.004	2	4	0.004
47	166.0	West	Wye Service / Sealed	1	0.000	0	0	0.000
48	167.0	Joint	Roots	3	0.008	5	8	0.008
49	168.0	Quad 1 / U-Rt	Crack-Radial	3	0.004	5	0	0.004
50	169.0	East	Wye Service / Sealed	1	0.000	0	0	0.000
51	170.0	Joint	Roots	2	0.004	2	4	0.004
52	172.0	Invert	Crack-Horizontal	3	0.004	5	0	0.004
53	184.0	Joint	Roots	2	0.004	2	4	0.004
54	189.0	Crown	Observation Hole	1	0.000	0	0	0.000
55	190.0	Joint	Roots	3	0.008	5	8	0.008
56	191.0	West	Wye Service / Sealed	1	0.000	0	0	0.000
57	192.0	Joint	Roots	3	0.008	5	8	0.008
58	194.0	East	Break-In Conn	1	0.001	0	0	0.001
LIVE CONNECTION-----935 N OHIO								
59	195.0	Joint	Roots	2	0.004	2	4	0.004
60	198.0	Quad 2 / L-Rt	Crack-Horizontal	3	0.004	5	0	0.004
61	207.0	Invert	Broken Pipe	2	0.008	44	0	0.008
62	217.0	West	Break-In Conn	2	0.002	0	0	0.002
LIVE CONNECTION-----926 N WABASH								
63	219.0	East	Wye Service	1	0.000	0	0	0.000
LIVE CONNECTION-----925 N OHIO								
64	220.0	Joint	Roots	3	0.008	5	8	0.008
65	222.0	Joint	Roots	3	0.008	5	8	0.008
66	225.0	Joint	Roots	3	0.008	5	8	0.008
67	230.0	West	Wye Service / Sealed	1	0.000	0	0	0.000
68	233.0	Quad 3 / L-Lt	Crack-Radial	3	0.004	5	0	0.004
69	237.0	West	Wye Service	1	0.000	0	0	0.000
LIVE CONNECTION-----924 N WABASH								
70	238.0	Crown	Broken Pipe	3	0.010	60	0	0.010
71	245.0	East	Wye Service / Sealed	1	0.000	0	0	0.000
72	265.0	Crown	Broken Pipe	2	0.008	44	0	0.008
73	266.0	Quad 1 / U-Rt	Crack-Radial	3	0.004	5	0	0.004
74	268.0	West	Wye Service	1	0.000	0	0	0.000
LIVE CONNECTION-----924 N WABASH								
75	269.0	Quad 2 / L-Rt	Crack-Radial	3	0.004	5	0	0.004
76	270.0	East	Wye Service	1	0.000	0	0	0.000
LIVE CONNECTION-----925 N OHIO								

77 285.0 DS Manhole / 5548-412

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