

MH # 5450-268
Approx depth = 7.3 ft

MH # 5450-269
Replace Manhole Frame & Cover
(pavement removal and replacement shall be incidental)
Approx depth = 6.9 ft

MH # 5450-270
Approx depth = 6.4 ft

MH # 5450-271
Approx depth = 5.7 ft

MH # 5450-272
Approx depth = 4.9 ft

Replace Service Connection
104' north of MH 5450-269
2311 N. Market
(pavement removal and replacement shall be incidental)

NOTE: Cured-in-Place Liner is scheduled to be installed, bid 5-18-07, 2007 Sanitary Sewer Rehab Phase B. Contractor shall coordinate this site with the Public Works inspector and wait to replace these taps until after the liner installation is complete.

Replace Service Connection
44' north of MH 5450-271
2221 N. Market
(pavement removal and replacement shall be incidental)

Replace Service Connection
194' north of MH 5450-272
2219 N. Market
(pavement removal and replacement shall be incidental)

4-1

WELLINGTON

PARK PLACE

MARKET

BROADWAY

(concrete alley)

(concrete alley)

8" VCP

2311 N. Market

117 E. 22nd St. N.

2221 N. Market

2219 N. Market

118 E. 21st St. N.

197'

128'

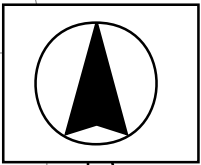
255'

230'

22ND ST. N.

21ST ST. N.

SITE 4



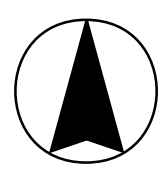


22ND

PARK

MARKET

21ST ST. N.



4-2

Television Inspection Master Report

1/23/2007
8:21 AM

US Structure: 5450-272
DS Structure: 5450-271

114 E 21ST ST N
2219 N MARKET ST

Date Insp: 5/1/2006
Dir Televised: Upstream To Downstream

Basin: C04A

Pipe Information

Shape: Round Length Status: VCP/CIPP Project No.: D-047
Dia/Ht Width: 8 Material: Index:
Length: 233.0 Slope: 0.399 Surface: Alley Paved
Pipe Sec Length: Comment: POINT REPAIR BY SEWER MAINTENANCE FROM 129' TO 135' NORTH OF #272.
REMOVED SEALED OFF WYE AT 130' AND ABANDONED LATERAL AT 134'. WORK
COMPLETED 07-11-2002 TGC #####

Inspection Information

Crew: 690 Percent Full: Tape ID: V-5049
Weather: Sunny Purpose: TV Existing Line Counter Start:
Surface Cond: N/A Flow: Normal Flow Counter Stop:

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct	Clean	Remain (gpm)
1	00	0.0	US Manhole	5450-272	1	0.000		0	0	0.000
2	1:15	6.4	West	Break-In Conn	3	0.004		2	0	0.004
3	1:51	7.8	East	Break-In Conn	2	0.002		0	0	0.002
4	2:15	17.5	East	Wye Service	1	0.000		0	0	0.000
5	2:29	20.2	West	Wye Service	1	0.000		0	0	0.000
6	3:11	29.4	West	Break-In Conn	4	0.008		60	0	0.008
				114 W 21ST ST N? / SMALL CAVITY OUTSIDE OF MAIN / ACTIVE?						
7	3:34	30.7	East	Break-In Conn	3	0.004		2	0	0.004
8	4:14	47.7	East	Wye Service	1	0.000		0	0	0.000
9	4:45	50.0	West	Wye Service	1	0.000		0	0	0.000
10	5:15	50.0	East	Break-In Conn	2	0.002		0	0	0.002
11	6:02	72.3	East	Wye Service	1	0.000		0	0	0.000
12	6:09	72.9	Quad 2 / L-Rt	Crack-Horizontal	2	0.002		2	0	0.002
13	6:29	74.7	West	Wye Service	1	0.000		0	0	0.000
14	7:22	95.3	Quad 3 / L-Lt	Crack-Radial	3	0.004		5	0	0.004
15	7:36	97.2	East	Wye Service	1	0.000		0	0	0.000

Television Inspection Master Report

1/23/2007
8:21 AM

US Structure: 5450-272 114 E 21ST ST N **Date Insp:** 5/1/2006 **Basin:** C04A
DS Structure: 5450-271 2219 N MARKET ST **Dir Televised:** Upstream To Downstream

16	7:54	99.7	West	Wye Service	3	0.000	2	0	0.000
	SEALED OFF (lets debris into the main)								
17	8:26	114.5	West	Wye Service	1	0.000	0	0	0.000
	SEALED OFF								
18	8:40	117.8	Quad 2 / L-Rt	Crack-Radial	2	0.002	2	0	0.002
19	9:11	121.9	East	Wye Service	1	0.000	0	0	0.000
	2209 N MARKET								
20	9:24	122.8	Joint	PVC PIPE STARTS					
21	9:41	128.9	Joint	PVC PIPE ENDS					
22	10:30	146.9	East	Wye Service	3	0.000	2	0	0.000
	SEALED OFF PLUG BROKEN NEEDS TO BE REPAIRED								
23	10:59	149.2	East	Wye Service	3	0.000	2	0	0.000
	SEALED OFF PLUG BROKEN NEEDS TO BE REPAIRED								
24	11:18	160.0	Quad 1 / U-Rt	Crack-Radial	2	0.002	2	0	0.002
25	11:29	164.7	Quad 1 / U-Rt	Crack-Radial	2	0.002	2	0	0.002
26	13:16	171.5	East	Wye Service	4	0.000	60	0	0.000
	Possibly sealed off / looks broken								
27	13:28	173.8	West	Wye Service	3	0.000	2	0	0.000
	SEALED OFF PLUG BROKEN								
28	13:55	174.9	West	Break-In Conn	2	0.002	0	0	0.002
	2220 N PARK PL								
29	14:29	180.0	East	Break-In Conn	2	0.002	0	0	0.002
	2219 N MARKET								
30	15:29	194.5	East	Break-In Conn	2	0.002	0	0	0.002
	2219 N MARKET / REPLACE SERVICE CONNECTION								
31	16:00	196.2	East	Wye Service	3	0.000	2	0	0.000
	SEALED OFF PLUG BROKEN								
32	16:15	198.7	West	Wye Service	1	0.000	0	0	0.000
	SEALED OFF								
33	17:00	221.5	East	Wye Service	1	0.000	0	0	0.000
	SEALED OFF								
34	17:27	223.6	West	Wye Service	1	0.000	0	0	0.000
	2226 N PARK PL								
35	17:57	226.9	DS Manhole	5450-271	1	0.000	0	0	0.000
	LINE IN POOR CONDITION. BROKEN PLUGS IN SEALED OFF CONNECTIONS LETTING SAND INTO SEWER								

Television Inspection Master Report

1/23/2007
8:21 AM

US Structure: 5450-271
DS Structure: 5450-270

2219 N MARKET ST
2241 N MARKET ST

Date Insp: 5/1/2006
Dir Televised: Upstream To Downstream

Basin: C04A

Pipe Information

Shape: Round Length Status: Project No.: D-047
Dia/Ht Width: 8 0 Material: VCP Index:
Length: 256.0 Slope: 0.398 Surface: Alley Paved

Inspection Information

Crew: 690 Percent Full: Tape ID: V-5049
Weather: Cloudy Purpose: TV Existing Line Counter Start:
Surface Cond: N/A Flow: Normal Flow Counter Stop:

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings		
								Struct	Clean	Remain (gpm)
1	17:57	0.0	US Manhole	5450-271	1	0.000	0	0	0.000	
2	18:23	5.0	Quad 3 / L-Lt	Crack-Radial	2	0.002	2	0	0.002	
3	18:56	16.5	East	Wye Service	3	0.000	2	0	0.000	
4	19:23	18.7	West	Wye Service	3	0.000	2	0	0.000	
5	20:01	34.6	Quad 1 / U-Rt	Crack-Radial	2	0.002	2	0	0.002	
6	20:14	39.7	Quad 1 / U-Rt	Crack-Radial	2	0.002	2	0	0.002	
7	21:33	43.7	East	Break-In Conn	2	0.002	0	0	0.002	
				2221 N MARKET RAT!! REPLACE SERVICE CONNECTION						
8	22:12	46.0	West	Wye Service	5	0.000	400	0	0.000	
9	23:13	68.9	East	Wye Service	4	0.000	60	0	0.000	
10	24:09	69.6	Quad 2 / L-Rt	Crack-Radial	2	0.002	2	0	0.002	
11	24:32	71.3	West	Wye Service	1	0.000	0	0	0.000	
12	24:39	72.3	Quad 1 / U-Rt	Crack-Radial	1	0.001	1	0	0.001	
13	24:52	77.0	Quad 4 / U-Lt	Crack-Radial	2	0.002	2	0	0.002	
14	25:22	92.1	Quad 4 / U-Lt	Crack-Radial	3	0.004	5	0	0.004	
15	25:53	93.6	East	Wye Service	1	0.000	0	0	0.000	
16	27:02	96.0	West	Wye Service	3	0.000	2	0	0.000	
17	27:53	118.6	East	Wye Service	3	0.000	2	0	0.000	
18	28:08	121.2	West	Wye Service	1	0.000	0	0	0.000	
19	28:48	128.5	West	Break-In Conn	2	0.002	0	0	0.002	
20	29:46	143.6	East	Wye Service	1	0.000	0	0	0.000	

Television Inspection Master Report

1/23/2007
8:21 AM

US Structure: 5450-271 2219 N MARKET ST Date Insp: 5/1/2006 Basin: C04A
DS Structure: 5450-270 2241 N MARKET ST Dir Televised: Upstream To Downstream

21	30:17	146.1	West	Wye Service	3	0.000	2	0	0.000
	SEALED OFF PLUG GONE								
22	30:43	156.8	Quad 4 / U-Lt	Crack-Radial	2	0.002	2	0	0.002
23	31:03	164.3	Quad 3 / L-Lt	Crack-Radial	2	0.002	2	0	0.002
24	31:29	168.5	East	Wye Service	3	0.000	2	0	0.000
	SEALED OFF PLUG GONE								
25	32:17	171.1	West	Wye Service	1	0.000	0	0	0.000
	2242 N PARK PL								
26	32:38	179.6	Quad 4 / U-Lt	Crack-Radial	2	0.002	2	0	0.002
27	33:16	193.2	East	Wye Service	1	0.000	0	0	0.000
	2237 N MARKET								
28	33:43	195.7	West	Wye Service	3	0.000	2	0	0.000
	CONNECTION FILLED WITH SAND								
29	34:41	217.9	East	Wye Service	3	0.000	2	0	0.000
	CONNECTION WAS SEALED OFF HOLE IN PLUG								
30	35:01	220.5	West	Wye Service	1	0.000	0	0	0.000
	2246 N PARK PL								
31	35:14	221.1	Quad 3 / L-Lt	Crack-Horizontal	2	0.002	2	0	0.002
32	35:36	233.5	Quad 4 / U-Lt	Crack-Radial	2	0.002	2	0	0.002
33	36:14	237.9	East	Break-In Conn	2	0.002	0	0	0.002
	2239 N MARKET								
34	36:30	241.4	Quad 4 / U-Lt	Crack-Radial	2	0.002	2	0	0.002
35	36:54	242.3	East	Wye Service	3	0.000	2	0	0.000
	CONNECTION WAS SEALED OFF, HOLE IN PLUG , FILLED WITH SAND								
36	37:05	243.4	Quad 4 / U-Lt	Crack-Radial	2	0.002	2	0	0.002
37	37:41	244.6	West	Wye Service	3	0.000	2	0	0.000
	CONNECTION WAS SEALED OFF HOLE IN PLUG								
38	38:47	252.1	DS Manhole	5450-270	1	0.000	0	0	0.000
	ALL SEALED OFF CONNECTION NEEDS TO BE RESEALED, OR LINE NEEDS TO BE REHABED								

Television Inspection Master Report

1/23/2007
8:21 AM

US Structure: 5450-269
DS Structure: 5450-268

109 W 22ND ST
2316 N PARK PL

Date Insp: 5/2/2006
Dir Televised: Upstream To Downstream

Basin: C04A

Pipe Information

Shape: Round Length Status: Project No.: D-047
Dia/Ht Width: 8 Material: VCP/CIPP Index:
Length: 197.8 Slope: 0.399 Surface: Alley Paved

Inspection Information

Crew: 690 Percent Full: Tape ID: V-5049
Weather: Cloudy Purpose: TV Existing Line Counter Start:
Surface Cond: N/A Flow: Normal Flow Counter Stop:

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct	Clean	Remain (gpm)
1	48:00	0.0	US Manhole	5450-269	1		0.000	0	0	0.000
2	48:09	23.5	West	Break-In Conn	2		0.002	0	0	0.002
3	48:51	48.0	East	Wye Service	3		0.000	2	0	0.000
4	49:19	50.3	East	Break-In Conn	2		0.002	0	0	0.002
5	50:21	72.7	East	Break-In Conn	1		0.001	0	0	0.001
6	50:41	75.2	East	Wye Service	3		0.000	2	0	0.000
7	51:09	80.1	West	Wye Service	1		0.000	0	0	0.000
8	51:54	88.3	West	Break-In Conn	3		0.004	2	0	0.004
				2310 N PARK PL / LOOSE TILE PROTRUDING INTO THE MAIN AT THIS TAP (TO BE REMOVED AS PART OF THE LINER INSTALLATION)						
9	52:15	96.1	Quad 1 / U-Rt	Broken Pipe	3		0.010	60	0	0.010
10	52:27	97.5	East	Wye Service	1		0.000	0	0	
				SEALED OFF						
11	53:02	100.1	West	Wye Service	3		0.000	2	0	0.000
				CONNECTION WAS SEALED OFF AT ONE TIME. NEEDS REPAIR						
12	53:58	103.8	East	Break-In Conn	4		0.008	60	0	0.008
				2311 N MARKET / REPLACE SERVICE CONNECTION						
13	55:01	107.0	West	Break-In Conn	3		0.004	2	0	0.004
				2312 N PARK PL						
14	55:17	111.4	Joint	PVC PIPE STARTS						
15	55:36	118.6	Joint	PVC PIPE ENDS						

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Television Inspection Master Report

1/23/2007
8:21 AM

US Structure: 5450-269 109 W 22ND ST **Date Insp:** 5/2/2006 **Basin:** C04A
DS Structure: 5450-268 2316 N PARK PL **Dir Televised:** Upstream To Downstream

16	56:05	127.1	East	Wye Service	3	0.000	2	0	0.000
		127.1	West	Wye Service	SEALED OFF				
17	56:34	127.9	Quad 1 / U-Rt	Broken Pipe	3	0.010	60	0	0.010
18	57:04	145.8	Quad 3 / L-Lt	Crack-Radial	3	0.004	5	0	0.004
19	57:43	152.3	East	Wye Service	4	0.000	60	0	0.000
20	58:18	154.7	West	Wye Service	3	0.000	2	0	0.000
21	59:12	159.4	West	Break-In Conn	2	0.002	0	0	0.002
22	1:00:04	177.2	East	Wye Service	3	0.000	2	0	0.000
23	1:00:22	179.5	West	Wye Service	1	0.000	0	0	0.000
24	1:01:18	195.2	DS Manhole	5450-268	1	0.000	0	0	0.000