

23rd Street North

MH 5650-267
Replace Manhole Frame & Cover

MH 5650-266
Replace Manhole Frame & Cover
Remove & Replace MH Bench & Invert
Approx MH depth = 8.8 ft

MH 5650-265
2326 N. Lorraine
Replace Manhole Frame & Cover
MH depth not measured

MH 5650-264
Replace Manhole Frame & Cover
Remove & Replace MH Bench & Invert
Approx pipe depth = 14.6 ft
Approx MH depth = 16.6 ft
Remove & Replace 4 lf Conc Sidewalk

Remove 593 lf of 8" Pipe
Install 593 lf of 8" Pipe
Estimated 17 Service Reconnections (4")
Estimated 1 Service Reconnection (6")
Easement is 16 ft wide

Estimated 20 lf Back of Curb Protection
Estimated 30 sy Erosion Control Mat
Estimated 20 lf Silt Fence

Lorraine Ave

Cemetery

Hillside



23'

291'

302'

313'

2357

2326

2302

vacant lot

vacant lot

vacant lot

Sheet 4 of 22

SITE 1

22nd Street North





Video Inspection Master Report

9/5/2013

2:51 PM

US Structure: 5650-266 2357 N HILLSIDE ST **Date Insp:** 7/26/2013 **Basin:** EC02D
DS Structure: 5650-265 2336 N LORRAINE AVE **Dir Televised:** Upstream To Downstream

Pipe Information

Project No. : G-147 **Dia/Ht:** 8 **Material:** VCP **Length:** 291.5 **Slope:** 0.398

Obs. #	VTR Counter	Distance	Location	Description	Rating	Ratings			Remain (gpm)
						Obsrvd (gpm)	Est. (gpm)	Struct Clean	
1		0.0	5650-266	US Manhole	1				
2		15.3	2357 N HILLSIDE	Wye Service	1				
3		38.9	2357 N LORRAINE	Wye Service	5	ROOTS	VACANT LOT		
4		42.0	2357 N HILLSIDE	Wye Service	1				
5		75.6		Sag begins	1				
6		76.7		Sag / submerged	4				
7		81.3		Sag / emerged	1				
8		81.3		Sag / ends	1				
9		85.1		Roots	1				
10		86.5	2350 N LORRAINE	Wye Service	1				
11		88.2		Roots	1				
12		89.1	2351 N HILLSIDE	Break-In Conn / roots	3	PVC service line outside of main	LML		
13		94.0		Roots	2				
14		103.0		Roots	2				
15		120.6		Roots	2				
16		141.3		Mat. Chngs to PVC	1				
17		149.9	2344 N LORRAINE	Break-In Conn	1				
18		151.3		Mat. Chngs to VCP	1				
19		154.3	2345 N HILLSIDE	Wye Service	1				
20		165.0		Roots	1				
21		168.0		Roots	1				
22		174.4		Crack-Horizontal	5	ROOTS			
23		186.6		Crack-Horizontal	3				
24		189.0		Crack-Horizontal	3	ROOTS			
25		192.2		Crack-Horizontal	2				
26		208.0	2338 N LORRAINE	Wye Service	1	paper collects in the wye service	LML		
27		210.9	2339 N HILLSIDE	Break-In Conn / heavy roots	4	PVC service line outside of main	LML		
28		215.8		Crack-Radial	4	Invert is cracked up	LML		
29		239.8		Crack-Horizontal	2				
30		244.3		Crack-Horizontal	2	Infiltration marks at the cracks	LML		
31		264.2	2332 N LORRAINE	Break-In Conn	3	BROKEN PIPE			
32		267.1	2333 N HILLSIDE	Break-In Conn	1	PVC service / no saddle	LML		
33		270.5		Crack-Radial	5				
34		287.2		Broken Pipe	1				
35		291.4		DS Manhole	1				

The line has some mineral deposits at joints (not called out on the log) – Some cracks are pretty bad and continuous - LML



Video Inspection Master Report

9/5/2013

2:51 PM

US Structure: 5650-265 2336 N LORRAINE AVE Date Insp: 7/26/2013 Basin: EC02D
 DS Structure: 5650-264 2302 N LORRAINE ST Dir Televised: Upstream To Downstream

Pipe Information

Project No. : G-147 Dia/Ht: 8 Material: VCP Length: 301.9 Slope: 0.401

Obs. #	VTR Counter	Distance	Location	Description	Rating	Ratings				
						Obsrvd (gpm)	Est. (gpm)	Struct Clean	Remain (gpm)	
1		0.0	5650-265	US Manhole	1					
2		3.0		Broken Pipe	2	Infiltration marks - LML				
3		5.0		Broken Pipe	3	Infiltration marks - LML				
4		9.1		Crack-Horizontal	2					
5		17.4		Crack-Horizontal	3					
6		25.4		Crack-Horizontal	2					
7		34.2		Roots	2					
8		35.9	2326 N LORRAINE	Break-In Conn	3	PVC tap has roots around the perimeter-LML				
9		38.6	2327 N HILLSIDE	Wye Service	4	ROOTS - heavy				
10		43.7		Crack-Horizontal	3					
11		58.1		Crack-Radial	4					
12		68.5	2324 N LORRAINE	Wye Service	3	ROOTS				
13		72.3	2307 N HILLSIDE	Wye Service	1					
14		73.3		Crack-Horizontal	3					
15		76.5		Broken Pipe	2					
16		79.7		Crack-Horizontal	4					
17		82.8		Broken Pipe	2					
18		103.7		Crack-Horizontal	3					
19		123.5		Broken Pipe	3	ROOTS & INFILTRATION				
20		133.3		Crack-Horizontal	3					
21		139.7	2320 N LORRAINE	Wye Service	1					
22		141.3		Roots	1					
23		143.3		Sealed Off Wye	1					
24		150.5		Crack-Horizontal	0	ROOTS				
25		153.8		Broken Pipe	2	ROOTS				
26		162.5		Crack-Horizontal	3	ROOTS				
27		173.9		Roots	1					
28		176.9		Roots	2					
29		179.7		Roots	2					
30		180.7	2314 N LORRAINE	Break-In Conn	5	BROKEN PIPE & ROOTS all around the tap.				
31		182.7		Roots	2					
32		185.9		Roots	2					
33		208.4		Sealed Off Wye	1					
34		211.2		Sealed Off Wye	5	ROOTS - ball of roots				
35		222.1		Broken Pipe	4	ROOTS				
36		224.7	2308 N LORRAINE	Break-In Conn	5	ROOTS - heavy roots around the tap -LML				
37		242.9	2308 N LORRAINE	Break-In Conn	5	ROOTS - ball of roots				
38		249.8		Sealed Off Wye	1					
39		269.1		Roots	1					
40		270.4	2302 N LORRAINE	Break-In Conn	3	ROOTS around the tap				
41		278.9		Sealed Off Wye	5	ROOTS				
42		296.2		Broken Pipe	5					
<i>paper is hung up on the broken pipe / camera can't get over the paper / televising stopped prior to getting to the DSMH - LML</i>										
43		301.9		DS Manhole 5650-264	1	- camera never made it to the DSMH - LML				