

## APPENDIX A - TABLE E2.3.6: SITE SPECIFIC DESIGN CONDITIONS AND REPAIRS

### Full Segment Renovations

<b>Pacific Ave (Asset No. MA20019537)</b>	<b>1<sup>st</sup> MH E of Xante St (Asset No. MH20017548) to MH at Arlington St (Asset No. MH20017568)</b>
Size/Shape	300 mm
Material	Clay
Total Length	110.7 m
Sewer Depth to Invert – maximum	3.48 m
Design Condition	Partially Deteriorated 3%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20017548	
2.3 – 3.0	External Point Repair (To be done by others)
43.4 – 44.0	Solid debris removal, encrustation on pipe wall @6:00
47.8 – 47.9	Solid debris removal, encrustation on pipe wall @6:00
58.8	Remove intruding service @10:00
65.3	Solid debris removal, encrustation on service @4:00
<b>Rover Ave (Asset No. MA70031307)</b>	<b>MH at Barber St (Asset No. MH00012385) to MH at Disraeli St (Asset No. MH00012227)</b>
Size/Shape	600 mm
Material	Concrete
Total Length	104.4 m
Sewer Depth to Invert – maximum	3.75 m
Design Condition	Fully Deteriorated 3%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH00012385	
54.0	Remove intruding service @1:00
76.2 – 83.8	Solid debris removal, roots on pipe wall @3:00
100.4	Remove intruding service @3:00
<b>Lisgar Ave (Asset No. MA00013777)</b>	<b>1<sup>st</sup> MH W of Beaconsfield St (Asset No. MH00012283) to MH at Austin St (Asset No. MH00012278)</b>
Size/Shape	300 mm
Material	Clay
Total Length	68.9 m
Sewer Depth to Invert – maximum	6.19 m

Design Condition	Fully Deteriorated 10%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH00012283	
	<b>Removal of excessive roots</b>
3.1	Solid debris removal, encrustation at service @9:00
11.3	Remove intruding service @10:00
12.9	Remove intruding service @1:00
26.5 – 28.0	External Point Repair (To be done by others)
33.4	Solid debris removal, encrustation at joint from 9:00 to 10:00
49.5 – 52.0	External Point Repair (To be done by others)

<b>Flora Ave (Asset No. MA00013161)</b>	<b>MH at Salter St (E PL) (Asset No. MH00011763) to 1<sup>st</sup> MH E of Salter St (Asset No. MH00011770)</b>
Size/Shape	300 mm
Material	Clay
Total Length	100.3 m
Sewer Depth to Invert – maximum	3.35 m
Design Condition	Partially Deteriorated 8%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH00011763	
7.0	Solid debris removal, grease at service from 4:00 to 5:00
8.7 – 13.5	Solid debris removal, encrustation on pipe wall from 5:00 to 7:00
14.3	Solid debris removal, encrustation at service from 3:00 to 5:00
16.0 – 21.7	Solid debris removal, encrustation on pipe wall from 5:00 to 7:00
18.2	Solid debris removal, encrustation at service from 7:00 to 9:00
23.9 – 29.5	Solid debris removal, encrustation on pipe wall from 5:00 to 7:00
32.5 – 33.5	Solid debris removal, encrustation on pipe wall from 5:00 to 7:00
35.1	Solid debris removal, grease at service from 3:00 to 4:00
49.1	Remove intruding service @10:00
49.8	Remove intruding service @10:00
52.8 – 56.6	External Point Repair (To be done by others)
57.1	Remove intruding service @1:00
59.6	Remove intruding service @2:00
61.7	Solid debris removal, encrustation at joint @12:00
86.2	Remove intruding service @1:00
88.0	Remove intruding service @2:00

<b>Manitoba Ave (Asset No. MA00013602)</b>	<b>1<sup>st</sup> MH E of Main St (Asset No. MH00012294) to MH at Main St (E of CL) (Asset No. MH00012123)</b>
Size/Shape	300 mm
Material	Clay
Total Length	96.6 m
Sewer Depth to Invert – maximum	5.85 m
Design Condition	Fully Deteriorated 10%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH00012294	
2.9	Solid debris removal, encrustation at joint from 8:00 to 12:00
5.7	Solid debris removal, broken pipe at @5:00
20.0	Solid debris removal, remove wood caught in joint
40.8 – 42.8	External Point Repair (To be done by others)
63.7	Remove intruding service @12:00
67.7	Solid debris removal, encrustation at joint from 3:00 to 5:00
74.3 – 75.0	Solid debris removal, encrustation on pipe wall from 8:00 to 4:00
75.7	Solid debris removal, encrustation at joint from 1:00 to 2:00
77.4 – 78.3	Solid debris removal, encrustation at joint from 7:00 to 5:00
80.6	Solid debris removal, encrustation at joint from 3:00 to 5:00
84.1	Solid debris removal, encrustation at joint from 12:00 to 3:00
84.9	Solid debris removal, encrustation at joint from 9:00 to 3:00
86.3	Solid debris removal, encrustation at joint from 1:00 to 3:00
87.5	Solid debris removal, encrustation on pipe wall from 12:00 to 3:00
Distance From MH00012123	<b>REVERSE - UPSTREAM</b>
3.5	Solid debris removal, encrustation at joint from 8:00 to 3:00
3.8 – 4.4	External Point Repair (To be done by others)
4.8 – 5.1	Solid debris removal, encrustation on pipe wall from 11:00 to 3:00
8.0	Solid debris removal, encrustation at joint from 8:00 to 1:00
<b>Agnes St (Asset No. MA20016400)</b>	<b>MH at Sargent Ave (CL) (Asset No. MH20014753) to 1<sup>st</sup> MH S of Sargent Ave (Asset No. MH20014756)</b>
Size/Shape	375 mm

Material	Clay
Total Length	99.1 m
Sewer Depth to Invert – maximum	3.1 m
Design Condition	Fully Deteriorated 10%
Site Specific Repairs	
Location	Required Action
Distance From MH20014753	
6.9 – 7.8	Solid debris removal, encrustation on pipe wall from 7:00 to 10:00
12.5	Remove intruding service @3:00
19.2 – 28.1	Remove cord
31.7	Remove intruding service @10:00
33.5 – 35.3	Solid debris removal, grease on pipe wall from 4:00 to 7:00
52.5	Solid debris removal, encrustation at joint from 4:00 to 10:00
60.7	Solid debris removal, encrustation at service from 7:00 to 9:00
60.8	Remove intruding service @9:00
63.7 – 64.0	Solid debris removal, grease on service from 7:00 to 8:00
63.8	Remove intruding service @9:00
80.1 – 82.5	External Point Repair (To be done by others)
87.4	Solid debris removal, encrustation at joint @4:00

<b>Downing St (Asset No. MA20010346)</b>	<b>1<sup>st</sup> MH S of Notre Dame Ave (Asset No. MH20009448) to MH at Notre Dame Ave (Asset No. MH20009443)</b>
Size/Shape	375 mm
Material	Clay
Total Length	96.9 m
Sewer Depth to Invert – maximum	5.79 m
Design Condition	Fully Deteriorated 10%
Site Specific Repairs	
Location	Required Action
Distance From MH20009448	
26.9	Solid debris removal, grease at service from 2:00 to 5:00
44.9 – 45.3	Solid debris removal, grease on pipe wall from 7:00 to 4:00
59.2	Remove intruding service @10:00
82.7	Solid debris removal, grease on pipe wall from 1:00 to 5:00
80.6 – 80.9	Solid debris removal, encrustation on pipe wall from 7:00 to 8:00

<b>Stanley St (Asset No. MA20019317)</b>	<b>MH at Henry Ave (Asset No. MH20017400) to MH at Logan Ave (Asset No. MH20017341)</b>
Size/Shape	375 mm
Material	Clay

Total Length	132.8 m
Sewer Depth to Invert – maximum	5.89 m
Design Condition	Partially Deteriorated 8%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20017400	
3.1 – 3.5	Solid debris removal, grease on pipe wall @4:00
12.4	Solid debris removal, encrustation on pipe wall from 8:00 to 5:00
13.6	Solid debris removal, encrustation on service from 2:00 to 5:00
20.9 – 21.3	Solid debris removal, encrustation on pipe wall from 7:00 to 9:00
21.2	Remove intruding service @10:00
31.6	Solid debris removal, grease on service from 2:00 to 5:00
37.2 – 37.9	Solid debris removal, encrustation on pipe wall from 7:00 to 10:00
38.0	Solid debris removal, encrustation on joint from 8:00 to 4:00
45.9 – 46.2	Solid debris removal, encrustation on pipe wall from 8:00 to 9:00
46.4	Solid debris removal, encrustation on joint @3:00
47.3	Solid debris removal, encrustation on service from 2:00 to 5:00
55.4	Solid debris removal, encrustation on service from 3:00 to 4:00
56.4	Solid debris removal, grease on service from 2:00 to 4:00
57.1	Solid debris removal, encrustation on joint from 12:00 to 3:00
64.8	Solid debris removal, encrustation on joint from 9:00 to 10:00
67.1	Solid debris removal, encrustation on service from 7:00 to 10:00
68.0 – 69.9	Solid debris removal, encrustation on pipe wall from 12:00 to 12:00
69.9	Solid debris removal, encrustation on service from 3:00 to 5:00
72.7	Solid debris removal, encrustation on joint @9:00
74.6 – 75.6	Solid debris removal, encrustation on pipe wall from 12:00 to 4:00
75.7 – 76.6	Solid debris removal, encrustation on pipe wall from 9:00 to 3:00
76.9 – 77.6	Solid debris removal, encrustation on pipe wall from 9:00 to 3:00
81.7	Solid debris removal, encrustation on service from 7:00 to 9:00
86.8	Solid debris removal, grease on service from 3:00 to 5:00
91.8	Solid debris removal, grease on service

	@10:00
100.0	Solid debris removal, encrustation on service from 2:00 to 4:00
102.3	Remove intruding service @11:00
109.2 – 111.2	External Point Repair (To be done by others)
111.3 – 111.6	Solid debris removal, encrustation on service from 7:00 to 9:00
123.6	Remove intruding service @12:00
124.0	Solid debris removal, encrustation on pipe wall @8:00

<b>Balmoral St (Asset No. MA20017040)</b>	<b>MH at Cumberland Ave (N PL) (Asset No. MH20015291) to MH at Notre Dame Ave (W of Isabel St) (Asset No. MH20016530)</b>
Size/Shape	300 mm
Material	Clay
Total Length	97.1 m
Sewer Depth to Invert – maximum	3.32 m
Design Condition	Fully Deteriorated 10%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20015291	
5.2	Solid debris removal, roots at joint from 8:00 to 11:00
5.8	Remove intruding service @9:00
6.1	Remove intruding service @3:00
8.5	Remove intruding service @2:00
22.8	Remove intruding service @11:00
28.7	Remove intruding service @1:00
36.7	Solid debris removal, encrustation on service from 3:00 to 4:00
37.0	Solid debris removal, encrustation on joint @9:00
37.1	Remove intruding service @9:00
38.1 – 40.7	Solid debris removal, grease on pipe wall from 3:00 to 9:00
42.6 – 43.3	Solid debris removal, grease on pipe wall @9:00
43.0 – 47.4	External Point Repair (To be done by others)
52.1 – 52.7	Solid debris removal, grease on pipe wall from 9:00 to 2:00
52.5	Remove object on pipe inv.
54.2 – 60.1	Solid debris removal, encrustation on pipe wall from 1:00 to 11:00
61.4 – 63.0	Solid debris removal, grease on pipe wall from 2:00 to 10:00
66.5 – 67.0	Solid debris removal, encrustation on pipe wall from 7:00 to 1:00
68.1 – 68.7	Solid debris removal, encrustation and roots on pipe wall from 3:00 to 9:00
70.1	Solid debris removal, encrustation on pipe wall from 2:00 to 4:00

73.7 – 74.0	Solid debris removal, encrustation on service from 2:00 to 5:00
79.6 – 80.9	Solid debris removal, encrustation on pipe wall from 3:00 to 9:00
82.1	Solid debris removal, encrustation on joint from 3:00 to 4:00
88.5	Solid debris removal, encrustation on pipe wall from 7:00 to 9:00

<b>Sherbrook St (Asset No. MA20017033)</b>	<b>2<sup>nd</sup> MH S of Cumberland Ave (Asset No. MH20016331) to 3<sup>rd</sup> MH S of Cumberland Ave (Asset No. MH20015155)</b>
Size/Shape	300 mm
Material	Clay
Total Length	65.1 m
Sewer Depth to Invert – maximum	3.36 m
Design Condition	Fully Deteriorated 10%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20016331	
7.0	Solid debris removal, grease on service from 7:00 to 8:00
11.9	Remove intruding service @8:00
23.7 – 25.0	External Point Repair (To be done by others)
31.3	Remove intruding service @9:00
43.3	Remove intruding service @9:00
55.1 – 55.3	Solid debris removal, encrustation on pipe wall from 8:00 to 9:00

<b>Sherbrook St (Asset No. MA20016443)</b>	<b>4<sup>th</sup> MH N of Portage Ave (Asset No. MH20014783) to 5<sup>th</sup> MH N of Portage Ave (Asset No. MH20014855)</b>
Size/Shape	375 mm
Material	Clay
Total Length	54.2 m
Sewer Depth to Invert – maximum	4.24 m
Design Condition	Partially Deteriorated 6%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20014783	
6.1	Remove intruding service @9:00
Distance From MH20014855	<b>REVERSE – UPSTREAM</b>
13.6	Solid debris removal, encrustation on service @10:00
24.0	Remove intruding service @2:00
41.7 – 42.9	External Point Repair (To be done by others)
47.0	Solid debris removal, encrustation on service from 8:00 to 10:00

<b>Balmoral St (Asset No. MA20016987)</b>	<b>1<sup>st</sup> MH S of Cumberland Ave (Asset No. MH20015271) to 2<sup>nd</sup> MH S of Cumberland</b>
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<b>Ave (Asset No. MH20015274)</b>	
Size/Shape	300 mm
Material	Clay
Total Length	25.8 m
Sewer Depth to Invert – maximum	3.66 m
Design Condition	Fully Deteriorated 8%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20015271	
5.2 – 7.3	Solid debris removal, encrustation on pipe wall from 11:00 to 3:00
13.7	Solid debris removal, encrustation on service @8:00
16.6	Solid debris removal, encrustation on joint @8:00
24.8 – 25.2	Solid debris removal, encrustation on joint from 1:00 to 4:00

<b>Sherbrook St (Asset No. MA20016537)</b>	<b>2<sup>nd</sup> MH N of Ellice Ave (Asset No. MH20015051) to 1<sup>st</sup> MH N of Ellice Ave (Asset No. MH20014876)</b>
Size/Shape	450 mm
Material	Clay
Total Length	100.0 m
Sewer Depth to Invert – maximum	4.4 m
Design Condition	Fully Deteriorated 10%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20015051	
2.4	Solid debris removal, roots on service @10:00
15.8	Solid debris removal, roots on service @9:00
23.8 – 25.1	Solid debris removal, encrustation on pipe wall from 1:00 to 5:00
42.3	Remove intruding service @1:00
58.1	Solid debris removal, encrustation on service @2:00
59.7	Remove intruding service @1:00
59.9	Solid debris removal, encrustation on service from 2:00 to 4:00
61.6	Solid debris removal, encrustation on service from 1:00 to 4:00
64.7	Solid debris removal, encrustation on service from 7:00 to 9:00
65.6 – 65.5	Solid debris removal, encrustation on pipe wall from 1:00 to 4:00
71.6	Remove intruding service @11:00
72.8	Solid debris removal, roots on service @3:00
77.6 – 78.3	Solid debris removal, roots on pipe wall from 5:00 to 6:00



<b>Maryland St (Asset No. MA20016706)</b>	<b>MH at Sargent Ave (CL) (Asset No. MH20015041) to 1<sup>st</sup> MH S of Sargent Ave (Asset No. MH20015020)</b>
Size/Shape	375 mm
Material	Clay
Total Length	99.0 m
Sewer Depth to Invert – maximum	3.5 m
Design Condition	Fully Deteriorated 10%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20015041	
28.4	Solid debris removal, grease on service from 7:00 to 10:00
30.0	Solid debris removal, encrustation on joint from 8:00 to 10:00
94.5 – 99.0	External Point Repair (To be done by others)

<b>St James St (CL) (Asset No. MA20010761)</b>	<b>2<sup>nd</sup> MH N of Maroons Rd (Asset No. MH20009823) to 1<sup>st</sup> MH S of St Matthews Ave (Asset No. MH20009822)</b>
Size/Shape	300 mm
Material	Concrete
Total Length	94.6 m
Sewer Depth to Invert – maximum	3.56 m
Design Condition	Fully Deteriorated 10%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20009823	
4.7	Remove intruding service @9:00
4.7	Remove wood
13.4	Solid debris removal, encrustation on joint from 5:00 to 7:00
22.1	Remove intruding service @2:00
26.9	Solid debris removal, encrustation on joint from 5:00 to 7:00
31.5	Solid debris removal, encrustation on joint from 5:00 to 8:00
35.3	Solid debris removal, encrustation on joint from 5:00 to 7:00
39.8	Solid debris removal, encrustation on joint from 4:00 to 8:00
42.0	Solid debris removal, encrustation on joint from 4:00 to 8:00
42.8	Solid debris removal, encrustation on joint from 5:00 to 7:00
43.6	Solid debris removal, encrustation on joint from 5:00 to 7:00
46.6	Solid debris removal, encrustation on joint from 6:00 to 7:00
92.6	Solid debris removal, encrustation on joint from 5:00 to 7:00

<b>St James St (CL) (Asset No. MA20009757)</b>	<b>1<sup>st</sup> MH S of St Matthews Ave (Asset No. MH20009822) to MH at St Matthews Ave (CL) (Asset No. MH20009820)</b>
Size/Shape	375 mm
Material	Concrete
Total Length	95.5 m
Sewer Depth to Invert – maximum	4.37 m
Design Condition	Partially Deteriorated 8%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20009822	
0.6	Solid debris removal, encrustation on joint @ 6:00
6.5	Remove intruding service @9:00
17.7	Remove intruding service @2:00
22.2 – 24.8	Solid debris removal, encrustation on joint from 5:00 to 7:00
24.0	Solid debris removal, encrustation on service from 7:00 to 9:00
25.7	Solid debris removal, encrustation on joint from 6:00 to 7:00
26.4	Solid debris removal, encrustation on joint from 4:00 to 9:00
42.9	Remove intruding service @9:00
85.9	Solid debris removal, encrustation on joint from 5:00 to 6:00

<b>Sherbrook St (Asset No. MA20016511)</b>	<b>1<sup>st</sup> MH N of Ellice Ave (Asset No. MH20014876) to MH at Ellice Ave (CL) (Asset No. MH20014861)</b>
Size/Shape	450 mm
Material	Clay
Total Length	99.3 m
Sewer Depth to Invert – maximum	4.92 m
Design Condition	Fully Deteriorated 10%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20014876	
0.0 – 2.2	External Point Repair (To be done by others)
5.5	Solid debris removal, encrustation on service from 2:00 to 4:00
5.9 – 6.2	Solid debris removal, encrustation on pipe wall from 3:00 to 5:00
28.4	Remove intruding service @11:00
30.3	Solid debris removal, encrustation on service from 3:00 to 5:00
33.1	Solid debris removal, encrustation on service from 8:00 to 9:00
51.4	Solid debris removal, encrustation on service from 9:00 to 11:00
51.6 – 51.8	Solid debris removal, encrustation on

	pipe wall from 8:00 to 11:00
52.7 – 53.2	Solid debris removal, encrustation on pipe wall from 8:00 to 11:00
53.5	Solid debris removal, encrustation on joint from 2:00 to 4:00
68.4	Remove intruding service @2:00
79.1 – 79.4	Solid debris removal, grease on pipe wall @3:00

<b>St Matthews Ave (Asset No. MA20017178)</b>	<b>1<sup>st</sup> MH W of Home St (Asset No. MH20015410) to MH at Home St (Asset No. MH20015403)</b>
Size/Shape	300 mm
Material	Clay
Total Length	74.3 m
Sewer Depth to Invert – maximum	4.7 m
Design Condition	Partially Deteriorated 6%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20015410	
3.0 – 3.9	External Point Repair (To be done by others)
8.9	Solid debris removal, encrustation on joint from 8:00 to 10:00
12.6 – 12.7	Solid debris removal, encrustation on pipe wall from 3:00 to 4:00
30.5 – 32.3	Remove rope from service
31.9	Solid debris removal, grease on service from 7:00 to 8:00
36.8	Solid debris removal, encrustation on joint from 12:00 to 5:00
37.4 – 37.6	Solid debris removal, encrustation on pipe wall from 3:00 to 9:00
37.8	Solid debris removal, encrustation on service from 7:00 to 8:00
38.1	Solid debris removal, encrustation on joint from 3:00 to 10:00
39.5 – 39.8	Solid debris removal, encrustation on pipe wall from 7:00 to 5:00
40.3	Solid debris removal, encrustation on joint from 10:00 to 4:00
41.1	Solid debris removal, encrustation on joint from 12:00 to 5:00
41.8	Solid debris removal, encrustation on joint from 9:00 to 5:00
43.3	Solid debris removal, encrustation on joint from 12:00 to 11:00
44.1	Solid debris removal, encrustation on joint from 3:00 to 9:00
55.8	Solid debris removal, encrustation on joint from 7:00 to 5:00
56.6 – 56.7	Solid debris removal, encrustation on pipe wall from 3:00 to 4:00
57.2	Solid debris removal, encrustation on

	joint from 7:00 to 2:00
58.0	Solid debris removal, encrustation on joint from 7:00 to 11:00
62.9	Remove intruding service @2:00
70.5	Remove intruding service @10:00
71.6	Solid debris removal, roots on joint @3:00
72.6	Solid debris removal, roots on joint @3:00

<b>Maryland St (Asset No. MA20016529)</b>	<b>2<sup>nd</sup> MH N of Ellice Ave (Asset No. MH20015017) to 1<sup>st</sup> MH N of Ellice Ave (Asset No. MH20014875)</b>
Size/Shape	450 mm
Material	Clay
Total Length	99.0 m
Sewer Depth to Invert – maximum	3.86 m
Design Condition	Partially Deteriorated 6%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20015017	
0 – 4.8	Solid debris removal, encrustation on pipe wall from 3:00 to 9:00
2.3	Remove intruding service @9:00
4.3	Remove intruding service @3:00
36.5	Remove intruding service @2:00
38.9 – 39.2	Solid debris removal, encrustation on pipe wall from 5:00 to 6:00
47.1	Remove intruding service @2:00
47.8 – 48.3	External Point Repair (To be done by others)
66.9	Solid debris removal, encrustation on service from 7:00 to 10:00
90.8	Solid debris removal, encrustation on service from 9:00 to 10:00

<b>Redwood Ave (Asset No. MA00016056)</b>	<b>MH at McPhillips St (Asset No. MH00008286) to 1<sup>st</sup> MH E of McPhillips St (Asset No. MH00008388)</b>
Size/Shape	300 mm
Material	Clay
Total Length	102.2 m
Sewer Depth to Invert – maximum	2.27 m
Design Condition	Fully Deteriorated 8%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH00008286	
2.4	Solid debris removal, encrustation on joint from 9:00 to 10:00
28.4	Remove intruding service @3:00
40.4 – 40.8	Solid debris removal, grease on pipe wall from 5:00 to 7:00
61.0	Solid debris removal, remove broken

	pipe on service @2:00
61.6	Solid debris removal, roots on service @9:00
62.2	Solid debris removal, roots on joint from 4:00 to 8:00
63.8	Solid debris removal, roots on joint @9:00
66.1	Solid debris removal, roots on service from 3:00 to 8:00
69.4	Solid debris removal, roots on joint from 3:00 to 9:00
70.8	Solid debris removal, roots on joint from 7:00 to 12:00
88.0 – 89.0	Solid debris removal, encrustation on pipe wall from 7:00 to 12:00

<b>Bannerman Ave (Asset No. MA00009979)</b>	<b>1<sup>st</sup> MH E of McKenzie St (Asset No. MH00006516) to MH at McGregor St (Asset No. MH00006534)</b>
Size/Shape	300 mm
Material	Clay
Total Length	100.7 m
Sewer Depth to Invert – maximum	6.17 m
Design Condition	Partially Deteriorated 5%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH00006516	
7.3 – 7.7	Solid debris removal, encrustation on pipe wall from 7:00 to 5:00
8.1	Solid debris removal, encrustation on joint from 1:00 to 2:00
12.4 – 13.1	External Point Repair (To be done by others)
23.0	Solid debris removal, encrustation on joint from 9:00 to 10:00
32.9	Solid debris removal, encrustation on joint from 8:00 to 3:00
34.1	Solid debris removal, encrustation on joint from 7:00 to 2:00
36.0 – 38.0	External Point Repair (To be done by others)
63.5	Solid debris removal, encrustation on joint from 8:00 to 12:00
71.5	Solid debris removal, encrustation on joint from 9:00 to 11:00
74.5	Solid debris removal, encrustation on service @3:00
74.8	Solid debris removal, grease on joint from 11:00 to 12:00
75.3	Solid debris removal, encrustation on joint @12:00
78.6 – 79.3	Solid debris removal, encrustation on pipe wall from 10:00 to 2:00
79.9	Solid debris removal, encrustation on

	joint from 8:00 to 12:00
80.5	Solid debris removal, encrustation on joint from 1:00 to 5:00
81.2	Solid debris removal, encrustation on pipe wall @12:00
81.3	Solid debris removal, encrustation on joint from 1:00 to 3:00
81.4 – 81.5	Solid debris removal, encrustation on pipe wall from 1:00 to 2:00
87.4	Solid debris removal, encrustation on joint @3:00
92.8	Solid debris removal, encrustation on joint @9:00
93.4 – 93.8	Solid debris removal, encrustation on pipe wall from 5:00 to 9:00

<b>Pacific Ave W (Asset No. MA20012403)</b>	<b>MH at Willowbank St (Asset No. MH20011305) to MH at Juba St (Asset No. MH20011306)</b>
Size/Shape	200 mm
Material	Concrete
Total Length	70.1 m
Sewer Depth to Invert – maximum	5.0 m
Design Condition	Partially Deteriorated 3%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20011305	
4.1 – 5.3	Solid debris removal, grease on pipe wall @11:00
18.9	Solid debris removal, encrustation on joint from 3:00 to 9:00
20.6	Solid debris removal, encrustation on service from 3:00 to 5:00
25.1	Solid debris removal, encrustation on joint from 1:00 to 11:00
30.6	Solid debris removal, encrustation on joint from 8:00 to 4:00
34.3	Remove intruding service @12:00
54.7	Solid debris removal, encrustation on joint from 4:00 to 6:00
56.8 – 62.7	Solid debris removal, encrustation on pipe wall from 8:00 to 4:00
66.7 – 69.0	Solid debris removal, encrustation on pipe wall from 10:00 to 3:00

<b>William Ave W (Asset No. MA20012231)</b>	<b>3<sup>rd</sup> MH W of Keewatin St (Asset No. MH20011151) to MH at Juba St (Asset No. MH20011152)</b>
Size/Shape	250 mm
Material	Concrete
Total Length	89.7 m
Sewer Depth to Invert – maximum	4.36 m
Design Condition	Partially Deteriorated 4%

Site Specific Repairs	
Location	Required Action
Distance From MH20011151	
	<b>Removal of excessive grease</b>
22.7 – 23.4	Remove stick/cord
31.8 – 34.1	Solid debris removal, encrustation on pipe wall from 9:00 to 3:00
77.9	Remove intruding service @11:00

<b>Ross Ave (Asset No. MA20007464)</b>	<b>MH at Oddy St (Asset No. MH20006826) to 1<sup>st</sup> MH E of Butterworth Ln (Asset No. MH20011083)</b>
Size/Shape	250 mm
Material	Concrete
Total Length	85.6 m
Sewer Depth to Invert – maximum	3.44 m
Design Condition	Fully Deteriorated 8%
Site Specific Repairs	
Location	Required Action
Distance From MH20006826	
0-16.2	Solid debris removal, grease on pipe wall from 10:00 to 2:00
16.2 – 17.0	External Point Repair (To be done by others)

<b>McDermot Ave (Asset No. MA20007232)</b>	<b>2<sup>nd</sup> MH E of King Edward St (Asset No. MH20006625) to 1<sup>st</sup> MH E of Oddy St (Asset No. MH20006643)</b>
Size/Shape	200 mm
Material	Concrete
Total Length	90.5 m
Sewer Depth to Invert – maximum	3.51 m
Design Condition	Fully Deteriorated 8%
Site Specific Repairs	
Location	Required Action
Distance From MH20006625	
24.4 – 25.2	External Point Repair (To be done by others)
Distance From MH20006643	<b>REVERSE - UPSTREAM</b>
11.5	Solid debris removal, encrustation on joint from 9:00 to 3:00
16.1	Solid debris removal, encrustation on joint from 3:00 to 4:00
24.7	Solid debris removal, encrustation on joint from 1:00 to 4:00
25.8 – 26.3	Solid debris removal, encrustation on pipe wall from 4:00 to 8:00
36.2	Solid debris removal, encrustation on joint from 2:00 to 5:00

<b>Main St (CL) (Asset No. MA70026654)</b>	<b>MH at Henry Ave (Asset No. MH20017381) to 1<sup>st</sup> MH S of Henry Ave (Asset No. MH20017370)</b>
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Size/Shape	600 mm
Material	Clay
Total Length	68.8 m
Sewer Depth to Invert – maximum	5.23 m
Design Condition	Fully Deteriorated 10%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20017381	<b>Televised against flow</b>
	<b>Removal of excessive roots</b>
54.8 – 56.7	External Point Repair (To be done by others)

<b>Beverley St (Asset No. MA20017586)</b>	<b>1st MH N of Sargent Ave (Asset No. MH20015782) to MH at Sargent Ave (Asset No. MH20015781)</b>
Size/Shape	450 mm
Material	Clay
Total Length	95.0 m
Sewer Depth to Invert – maximum	3.75 m
Design Condition	Partially Deteriorated 7%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20015782	
	<b>Removal of excessive grease</b>
5.4 – 5.8	Solid debris removal, remove piece of pipe on inv
21.7	Solid debris removal, encrustation on joint from 7:00 to 5:00
22.1 – 22.4	Solid debris removal, encrustation on pipe wall from 3:00 to 9:00
25.0 – 25.2	Solid debris removal, encrustation on pipe wall from 7:00 to 10:00
31.9 – 32.3	Solid debris removal, encrustation on pipe wall from 12:00 to 5:00
33.5 – 35.5	External Point Repair (To be done by others)
37.2	Solid debris removal, encrustation on joint from 7:00 to 11:00
38.0	Solid debris removal, encrustation on joint from 3:00 to 11:00
38.2 – 38.7	Solid debris removal, encrustation on pipe wall from 7:00 to 10:00
42.7	Solid debris removal, encrustation on joint from 3:00 to 4:00
54.0	Solid debris removal, encrustation on joint from 3:00 to 10:00
58.1	Remove intruding service @1:00
59.1	Remove intruding service @1:00
60.2	Remove intruding service @10:00
83.9	Remove intruding service @1:00

<b>Point Douglas Ave (Asset No. MA00014005)</b>	<b>MH at McFarlane St (E PL) (Asset No. MH00012498) to 1<sup>st</sup> MH W of Syndicate St</b>
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	<b>(Asset No. MH00014072)</b>
Size/Shape	900 mm
Material	Brick
Total Length	59.2 m
Sewer Depth to Invert – maximum	6.96 m
Design Condition	Partially Deteriorated 4%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH00012498	
	<b>Sewer needs to be flushed</b>

<b>Powers St (Asset No. MA00015328)</b>	<b>MH at Mountain Ave (CL) (Asset No. MH00013649) to MH at Mountain Ave (N PL) (Asset No. MH00013647)</b>
Size/Shape	900 mm
Material	Concrete
Total Length	9.9 m
Sewer Depth to Invert – maximum	6.12 m
Design Condition	Partially Deteriorated 7%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH00013649	
No preparatory work required	

<b>Wellington Ave (Asset No. MA20010071)</b>	<b>MH at Valour Rd (Asset No. MH20009204) to MH at Spruce St (Asset No. MH20009216)</b>
Size/Shape	300 mm
Material	Concrete
Total Length	77.7 m
Sewer Depth to Invert – maximum	4.29 m
Design Condition	Partially Deteriorated 3%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20009204	
0 – 0.6	Grout MH and pipe interface (To be done by others)
2.6	Solid debris removal, encrustation on joint from 6:00 to 7:00
3.3	Solid debris removal, encrustation on joint from 6:00 to 7:00
6.8	Solid debris removal, encrustation on joint from 2:00 to 5:00
11.4	Solid debris removal, encrustation on joint from 5:00 to 7:00
13.7	Solid debris removal, encrustation on joint from 7:00 to 8:00
20.7	Solid debris removal, encrustation on joint from 4:00 to 5:00
21.3	Solid debris removal, encrustation on joint from 4:00 to 7:00
23.1	Solid debris removal, encrustation on

	joint from 4:00 to 7:00
26.0	Solid debris removal, encrustation on joint from 3:00 to 9:00
29.2	Solid debris removal, encrustation on joint from 4:00 to 7:00
30.0	Solid debris removal, encrustation on joint from 4:00 to 8:00
50.1	Solid debris removal, encrustation on joint from 6:00 to 9:00
55.5	Solid debris removal, encrustation on joint from 6:00 to 8:00
67.1	Solid debris removal, encrustation on joint from 4:00 to 7:00
67.8	Solid debris removal, encrustation on joint from 3:00 to 7:00

<b>Seven Oaks Ave (Asset No. MA0008883)</b>	<b>2<sup>nd</sup> MH W of Jones St (Asset No. MH00011362) to 1st MH W of Jones St (Asset No. MH0005996)</b>
Size/Shape	300 mm
Material	Clay
Total Length	94.0 m
Sewer Depth to Invert – maximum	3.2 m
Design Condition	Partially Deteriorated 8%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH00011362	
6.4	Solid debris removal, encrustation on joint from 5:00 to 7:00
15.3	Solid debris removal, roots on service @9:00
17.2	Solid debris removal, encrustation on joint from 7:00 to 9:00
20.3 – 21.9	External Point Repair (To be done by others)
22.8	Solid debris removal, encrustation on pipe wall @9:00
26.8	Solid debris removal, roots on service @9:00
44.1	Solid debris removal, roots on joint from 3:00 to 9:00
51.5	Solid debris removal, roots on service from 3:00 to 5:00
62.9	Solid debris removal, encrustation on joint from 5:00 to 7:00
65.0	Solid debris removal, encrustation on joint from 3:00 to 6:00
77.8	Solid debris removal, encrustation on service from 12:00 to 6:00
94.0	Grout MH and pipe interface (To be done by others)

<b>Wolever Ave (Asset No. MA20011262)</b>	<b>MH at Greenwood PI (Asset No. MH20010259) to 1st Tee E of Greenwood PI</b>
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<b>(Asset No. TE20003463)</b>	
Size/Shape	300 mm
Material	Concrete
Total Length	27.4 m
Sewer Depth to Invert – maximum	3.99 m
Design Condition	Fully Deteriorated 4%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20010259	<b>Televised against flow</b>
0.0	Grout MH and pipe interface (To be done by others)
2.3	Solid debris removal, encrustation on joint from 7:00 to 9:00
4.5 – 4.7	Solid debris removal, encrustation on pipe wall from 7:00 to 9:00
6.2	Remove intruding service @9:00
7.3	Solid debris removal, encrustation on joint from 3:00 to 4:00
9.1 – 9.4	Solid debris removal, encrustation on pipe wall from 7:00 to 9:00
18.6	Solid debris removal, encrustation on joint from 3:00 to 9:00
19.3	Solid debris removal, encrustation on joint from 3:00 to 9:00
19.9 – 20.1	Solid debris removal, encrustation on pipe wall from 9:00 to 4:00
20.6 – 21.4	External Point Repair (To be done by others)
27.4	Install MH (To be done by others)

<b>Sutherland Ave (Asset No. MA00013960)</b>	<b>MH at Meade St (Asset No. MH00012451) to MH at Argyle St (Asset No. MH00012459)</b>
Size/Shape	600 mm
Material	Brick
Total Length	100.7 m
Sewer Depth to Invert – maximum	4.66 m
Design Condition	Partially Deteriorated 5%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH00012451	
5.3	Remove intruding service @10:00
10.7	Solid debris removal, grease on service from 12:00 to 5:00
32.2	Solid debris removal, grease on service from 3:00 to 5:00
35.8 – 37.3	Solid debris removal, encrustation on pipe wall from 8:00 to 4:00
40.7 – 41.4	Solid debris removal, encrustation on pipe wall from 9:00 to 5:00
Distance From MH00012459	<b>REVERSE - UPSTREAM</b>
7.0	Solid debris removal, grease on joint from 3:00 to 9:00
38.0	Solid debris removal, grease on service

	from 2:00 to 5:00
45.0	Solid debris removal, grease on service from 7:00 to 9:00
47.5	Remove intruding service @2:00
59.8	Solid debris removal, encrustation on service from 2:00 to 5:00

<b>St Matthews Ave (Asset No. MA20009150)</b>	<b>1<sup>st</sup> MH W of Wall St (Asset No. MH20008624) to MH at Erin St (Asset No. MH20008368)</b>
Size/Shape	600 mm
Material	Concrete
Total Length	91.4 m
Sewer Depth to Invert – maximum	6.57 m
Design Condition	Fully Deteriorated 5%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20008624	
4.0 – 4.5	Solid debris removal, encrustation on pipe wall from 3:00 to 9:00
8.0	Solid debris removal, encrustation on joint from 3:00 to 9:00
10.6	Solid debris removal, encrustation on joint from 7:00 to 5:00
13.2	Solid debris removal, encrustation on joint from 1:00 to 5:00
14.7 – 15.3	Solid debris removal, encrustation on pipe wall from 2:00 to 10:00
15.6 – 16.2	Solid debris removal, encrustation on pipe wall from 7:00 to 5:00
16.8 – 17.3	Solid debris removal, encrustation on pipe wall from 1:00 to 5:00
18.2	Solid debris removal, encrustation on joint from 1:00 to 5:00
19.3	Solid debris removal, encrustation on joint from 2:00 to 9:00
22.8	Solid debris removal, encrustation on joint from 7:00 to 8:00
26.0 – 27.3	Solid debris removal, encrustation on pipe wall from 7:00 to 10:00
28.0 – 28.5	Solid debris removal, encrustation on pipe wall from 7:00 to 10:00
31.1	Solid debris removal, encrustation on joint from 9:00 to 10:00
33.3 – 34.5	Solid debris removal, encrustation on pipe wall from 1:00 to 9:00
37.3 – 37.8	Solid debris removal, encrustation on pipe wall from 8:00 to 3:00
38.3 – 38.6	Solid debris removal, encrustation on pipe wall from 7:00 to 9:00
40.0	Solid debris removal, encrustation on joint from 7:00 to 11:00
41.8 – 42.3	Solid debris removal, encrustation on pipe wall from 7:00 to 8:00

49.3 – 71.0	Solid debris removal, grease on pipe wall from 9:00 to 3:00
77.5 -78.3	Link Pipe Repair (To be done by others)
83.7	Solid debris removal, grease on service from 7:00 to 10:00

<b>Hargrave St (Asset No. MA20015890)</b>	<b>1<sup>st</sup> MH N of Ellice Ave (Asset No. MH20014304) to MH at Qu'Appelle Ave (Asset No. MH20014319)</b>
Size/Shape	600 mm
Material	Brick
Total Length	85.1 m
Sewer Depth to Invert – maximum	4.80 m
Design Condition	Partially Deteriorated 8%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20014304	
2.6	Remove intruding service @2:00
9.7	Remove intruding service @8:00
17.0	Solid debris removal, encrustation on service from 3:00 to 5:00
18.9 – 20.1	Solid debris removal, encrustation on pipe wall from 2:00 to 5:00
21.2 – 22.7	Solid debris removal, encrustation on pipe wall from 1:00 to 11:00
24.2 – 25.5	Solid debris removal, encrustation on pipe wall from 12:00 to 12:00
34.0 – 34.8	Solid debris removal, encrustation on pipe wall from 3:00 to 5:00
42.7	Remove intruding service @8:00
67.4	Solid debris removal, encrustation on service from 2:00 to 3:00
69.6 – 70.3	Solid debris removal, encrustation on pipe wall from 8:00 to 4:00
82.8 – 83.0	Solid debris removal, encrustation on pipe wall from 7:00 to 10:00

<b>Hargrave St (Asset No. MA20015913)</b>	<b>MH at Cumberland Ave (Asset No. MH20014326) to MH at Notre Dame Ave (Asset No. MH20014318)</b>
Size/Shape	750 mm
Material	Brick
Total Length	99.6 m
Sewer Depth to Invert – maximum	5.10 m
Design Condition	Partially Deteriorated 3%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20014326	
2.5	Solid debris removal, encrustation on service from 1:00 to 5:00
3.3	Displaced brick from 10:00 to 11:00. Remove or re-insert.
21.5	Solid debris removal, encrustation on

	service from 3:00 to 5:00
28.9	Solid debris removal, grease on service from 3:00 to 4:00
35.6	Solid debris removal, encrustation on pipe wall from 11:00 to 4:00
37.1	Solid debris removal, encrustation on service from 3:00 to 5:00
44.0	Solid debris removal, encrustation on service from 3:00 to 5:00
47.4	Remove intruding service @9:00
50.5	Solid debris removal, encrustation on service from 3:00 to 5:00
58.0	Remove intruding service @2:00
60.2	Solid debris removal, encrustation on service from 7:00 to 9:00
74.2	Solid debris removal, encrustation on service from 3:00 to 9:00
80.0 – 80.5	Solid debris removal, encrustation on pipe wall from 9:00 to 3:00
89.8 – 91.5	Solid debris removal, encrustation on pipe wall from 7:00 to 12:00

<b>Isabel St (CL) (Asset No. MA20018833)</b>	<b>MH at Pacific Ave (Asset No. MH20016868) to Sewer at Alexander Ave (Asset No. MH20016866)</b>
Size/Shape	600 mm
Material	Brick
Total Length	63.5 m
Sewer Depth to Invert – maximum	5.33 m
Design Condition	Fully Deteriorated 10%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20016868	
14.5	Solid debris removal, grease on service from 7:00 to 9:00
27.6 – 28.3	Solid debris removal, encrustation on pipe wall from 1:00 to 5:00
34.4 – 34.8	Solid debris removal, encrustation on pipe wall from 2:00 to 5:00
40.2 – 42.0	Solid debris removal, encrustation on pipe wall from 7:00 to 4:00
45.5	Solid debris removal, grease on service from 7:00 to 9:00
48.0	Remove intruding service @12:00
51.6 – 52.3	Solid debris removal, encrustation on pipe wall from 7:00 to 9:00

<b>Burnell St (Asset No. MA20017342)</b>	<b>End of Pipe N PL Burnell/Alverstone (Asset No. MH20015587) to 1<sup>st</sup> MH N of Ellice Ave (Asset No. MH20015563)</b>
Size/Shape	375 mm
Material	Clay
Total Length	75.7 m

Sewer Depth to Invert – maximum	4.74 m
Design Condition	Partially Deteriorated 9%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20015587	
9.2	Solid debris removal, grease on service from 8:00 to 10:00
10.0	Solid debris removal, grease on service from 8:00 to 11:00
13.6	Solid debris removal, encrustation on pipe joint from 3:00 to 6:00
34.7 – 36.7	External Point Repair (To be done by others)
40.9 – 41.9	External Point Repair (To be done by others)
44.9	Solid debris removal, grease on service from 8:00 to 9:00
58.2	Solid debris removal, grease on service from 2:00 to 4:00
58.7	Solid debris removal, encrustation on pipe joint from 8:00 to 11:00
60.2	Solid debris removal, grease on service from 8:00 to 9:00
67.6	Solid debris removal, grease on service from 2:00 to 4:00
72.4	Remove intruding service @9:00

<b>Hargrave St (Asset No. MA70023497)</b>	<b>1<sup>st</sup> MH N of McDermot Ave (Asset No. MH20016902) to Sewer at Bannatyne Ave (Asset No. TE20006916)</b>
Size/Shape	750 mm
Material	Brick
Total Length	19.7 m
Sewer Depth to Invert – maximum	5.58 m
Design Condition	Partially Deteriorated 3%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20016902	
No preparatory work required	

<b>Hargrave St (Asset No. MA20015918)</b>	<b>1<sup>st</sup> MH N of Notre Dame Ave (Asset No. MH20014328) to MH at McDermot Ave (Asset No. MH20014348)</b>
Size/Shape	750 mm
Material	Brick
Total Length	80.9 m
Sewer Depth to Invert – maximum	5.12 m
Design Condition	Partially Deteriorated 6%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20014328	
4.0	Remove intruding service @10:00
8.9	Solid debris removal, grease on service

	from 3:00 to 5:00
16.5	Solid debris removal, grease on service from 3:00 to 5:00
40.5	Solid debris removal, encrustation on pipe wall from 4:00 to 5:00
54.1	Remove intruding service @10:00

<b>Sherbrook St (Asset No. MA20019918)</b>	<b>MH at Higgins Ave (Asset No. MH20017903) to MH at Henry Ave (Asset No. MH20017885)</b>
Size/Shape	675 mm
Material	Brick
Total Length	65.9 m
Sewer Depth to Invert – maximum	4.98 m
Design Condition	Fully Deteriorated 6%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20017903	
0 – 5.5	External Point Repair (To be done by others)
8.2 – 9.3	Solid debris removal, encrustation on pipe wall from 5:00 to 6:00
11.8 – 12.3	Solid debris removal, encrustation on pipe wall from 6:00 to 7:00
63.3 – 64.5	Solid debris removal, encrustation on pipe wall from 5:00 to 6:00

<b>Aikins St (Asset No. MA00013257)</b>	<b>MH at Flora Ave (N of CL) (Asset No. MH00011849) to Tee at Selkirk Ave E of MH at Flora) (Asset No. TE00005563)</b>
Size/Shape	600 mm
Material	Brick
Total Length	87.1 m
Sewer Depth to Invert – maximum	5.97 m
Design Condition	Partially Deteriorated 4%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH00011849	
2.5 – 2.8	Remove debris on inv.
18.4 – 20.2	Solid debris removal, encrustation on pipe wall from 6:00 to 8:00
76.9	Solid debris removal, encrustation on service from 7:00 to 5:00
78.2 – 87.2	Remove debris from 3:00 to 9:00

<b>Alexander St (Asset No. MA20012380)</b>	<b>1<sup>st</sup> MH E of Dee St (Asset No. MH20011322) to 2<sup>nd</sup> MH E of Dee St (Asset No. MH20011277)</b>
Size/Shape	200 mm
Material	Concrete
Total Length	79.5 m
Sewer Depth to Invert – maximum	3.85 m



Design Condition	Fully Deteriorated 5%
Site Specific Repairs	
Location	Required Action
Distance From MH20011322	<b>Televised against flow</b>
8.7	Solid debris removal, encrustation on joint from 4:00 to 5:00
18.3	Remove intruding service @12:00
30.4	Solid debris removal, encrustation on pipe wall from 7:00 to 9:00
38.6 – 39.5	External Point Repair (To be done by others)
53.0	Remove intruding service @10:00
61.1	Remove concrete debris on inv
78.6 – 79.5	External Point Repair (To be done by others)

<b>Logan Ave (Asset No. MA20019586)</b>	<b>MH at Trinity St (Asset No. MH20017588) to MH at Arlington St (Asset No. MH20017595)</b>
Size/Shape	600 mm
Material	Brick
Total Length	79.5 m
Sewer Depth to Invert – maximum	3.91 m
Design Condition	Fully Deteriorated 5%
Site Specific Repairs	
Location	Required Action
Distance From MH20017588	
11.7	Remove intruding service @2:00
21.8	Solid debris removal, encrustation on pipe wall from 10:00 to 2:00
37.0	Remove intruding service @2:00
65.6	Solid debris removal, encrustation on service from 2:00 to 4:00
70.6	Remove intruding service @2:00

<b>Brooklyn St (Asset No. MA20008208)</b>	<b>1<sup>st</sup> MH N of Ness Ave (Asset No. MH20007628) to MH at Ness Ave (Asset No. MH70054851)</b>
Size/Shape	375 mm
Material	Clay
Total Length	136.1 m
Sewer Depth to Invert – maximum	4.01 m
Design Condition	Fully Deteriorated 10%
Site Specific Repairs	
Location	Required Action
Distance From MH20007628	
19.8	Solid debris removal, encrustation on service at 10:00
20.4	Remove intruding service @9:00
24.5	Solid debris removal, encrustation on joint at 3:00
28.8	Remove intruding service @2:00
36.8	Solid debris removal, encrustation on joint from 7:00 to 5:00

40.8	Solid debris removal, encrustation on joint from 7:00 to 2:00
51.1	Remove intruding service @10:00
66.0	Remove intruding service @10:00
85.3	Remove intruding service @1:00
90.5 – 91.0	External Point Repair (To be done by others)
94.5	Solid debris removal, grease on service from 3:00 to 4:00
132.0 – 133.1	Solid debris removal, encrustation on pipe wall from 2:00 to 4:00
134.1	Solid debris removal, encrustation on joint from 2:00 to 4:00

<b>Brooklyn St (Asset No. MA20008297)</b>	<b>1<sup>st</sup> MH S of Silver Ave (Asset No. MH20007627) to 1<sup>st</sup> MH N of Ness Ave (Asset No. MH20007628)</b>
Size/Shape	375 mm
Material	Clay
Total Length	119.9 m
Sewer Depth to Invert – maximum	4.0 m
Design Condition	Partially Deteriorated 8%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20007627	
8.7 – 10.9	External Point Repair (To be done by others)
Distance From MH20007628	<b>REVERSE - UPSTREAM</b>
0.0 – 2.1	Solid debris removal, grease on pipe wall from 3:00 to 9:00
1.7	Remove intruding service @2:00
2.1	Remove intruding service @9:00
35.9	Remove intruding service @10:00
42.4	Solid debris removal, encrustation on joint from 3:00 to 4:00
43.3	Solid debris removal, encrustation on joint from 7:00 to 8:00
54.3	Remove intruding service @10:00
68.2	Solid debris removal, encrustation on joint from 7:00 to 4:00

<b>McDermot Ave (Asset No. MA70013078)</b>	<b>MH at Princess St (Asset No. MH70040460) to MH at King St (Asset No. MH20014418)</b>
Size/Shape	450 mm
Material	Clay
Total Length	82.3 m
Sewer Depth to Invert – maximum	3.87 m
Design Condition	Fully Deteriorated 10%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH70040460	
11.0	Remove intruding service @3:00
22.4	Solid debris removal, encrustation on

	service from 3:00 to 4:00
25.5	Remove/cut rubber gasket from 10:00 to 12:00
48.0	Remove intruding service @3:00
53.9	Remove intruding service @8:00
68.0	Remove intruding service @2:00
73.4 – 82.3	Pipe diameter change

<b>James Ave (Asset No. MA70024910)</b>	<b>2<sup>nd</sup> MH W of Lily St (Asset No. MH20017148) to MH at Main St (CL) (Asset No. MH20017147)</b>
Size/Shape	450 mm
Material	Clay
Total Length	84.0 m
Sewer Depth to Invert – maximum	4.58 m
Design Condition	Fully Deteriorated 10%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20017148	
<b>*DUE TO LOCATION OF SEWER REPAIRS NOT POSSIBLE</b>	
9.8	Solid debris removal, encrustation on joint from 12:00 to 3:00
10.5	Solid debris removal, encrustation on joint from 12:00 to 3:00
20.6	Solid debris removal, grease on service from 3:00 to 5:00
21.3	Solid debris removal, encrustation on service from 7:00 to 9:00
22.8 – 23.6	*Broken Pipe
26.8 – 29.6	*Larger Brick section
31.6	Solid debris removal, encrustation on service from 8:00 to 9:00
45.9	Solid debris removal, encrustation on joint from 9:00 to 4:00
49.4	Solid debris removal, grease on service from 3:00 to 4:00
54.8	Solid debris removal, encrustation on joint from 8:00 to 4:00
59.7	Solid debris removal, grease on service from 3:00 to 4:00
60.8	Remove intruding service @1:00
61.7	Solid debris removal, encrustation on joint from 1:00 to 5:00
62.4	Solid debris removal, encrustation on joint from 1:00 to 5:00
65.0	Solid debris removal, encrustation on joint from 1:00 to 4:00
75.3	Solid debris removal, encrustation on service from 8:00 to 10:00
80.7 – 84.0	Diameter change-smaller pipe

<b>Ross Ave (Asset No. MA20018513)</b>	<b>1<sup>st</sup> MH W of Sherbrook St (Asset No.</b>
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	<b>MH20016578) to MH at Sherbrook St (Asset No. MH70028638)</b>
Size/Shape	450 mm
Material	Clay
Total Length	79.3 m
Sewer Depth to Invert – maximum	4.15 m
Design Condition	Partially Deteriorated 3%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20016578	
0.6	Solid debris removal, encrustation on joint from 2:00 to 4:00
2.5	Remove intruding service @10:00
25.0	Remove intruding service @9:00
42.0 – 42.6	Remove stick on pipe inv
73.5	Remove intruding service @1:00

<b>Andrews St (Asset No. MA00011635)</b>	<b>MH at Hartford Ave (Asset No. MH00010045) to MH at Perth Ave (Asset No. MH00010017)</b>
Size/Shape	1050 mm
Material	Concrete
Total Length	98.0 m
Sewer Depth to Invert – maximum	6.24 m
Design Condition	Fully Deteriorated 10%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH00010045	
<b>Pre-design video required</b>	
14.4	Solid debris removal, encrustation on pipe wall from 1:00 to 3:00
49.1 – 50.1	Solid debris removal, encrustation on pipe wall from 1:00 to 3:00
72.2	Solid debris removal, encrustation on joint from 9:00 to 10:00
73.9	Solid debris removal, encrustation on joint from 9:00 to 10:00
89.3 – 98.0	Remove debris on pipe inv

<b>Andrews St (Asset No. MA00011640)</b>	<b>MH at Perth Ave (Asset No. MH00010017) to MH at St Anthony Ave (Asset No. MH00010016)</b>
Size/Shape	1050 mm
Material	Concrete
Total Length	97.6 m
Sewer Depth to Invert – maximum	6.41 m
Design Condition	Fully Deteriorated 8%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH00010017	
<b>Pre-design video required</b>	
18.6	Solid debris removal, encrustation on

	joint from 9:00 to 3:00
62.2 – 64.9	Remove debris on pipe inv
79.8	Solid debris removal, encrustation on joint from 1:00 to 5:00

<b>Main St (W PL) (Asset No. MA00016986)</b>	<b>MH at Belmont Ave (N PL) (Asset No. MH00000821) to 1<sup>st</sup> MH N of Kilbride Ave (Asset No. MH00000870)</b>
Size/Shape	250 mm
Material	Clay
Total Length	98.5 m
Sewer Depth to Invert – maximum	2.91 m
Design Condition	Partially Deteriorated 8%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH00000821	
32.8 – 33.1	Blocked off connection. Must re-instate
33.4	Leak at pipe joint at 5:00
53.8 – 54.4	External Point Repair (To be done by others)
77.7 – 78.3	External Point Repair (To be done by others)
90.3	Remove intruding service @9:00

<b>Aubrey St (Asset No. MA20013769)</b>	<b>1<sup>st</sup> MH S of Palmerston Ave (Asset No. MH20012473) to 1<sup>st</sup> MH N of Palmerston Ave (Asset No. MH70043834)</b>
Size/Shape	600 mm
Material	Concrete
Total Length	136.2 m
Sewer Depth to Invert – maximum	2.60 m
Design Condition	Fully Deteriorated 8%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20012473	
<b>Interceptor Sewer D/S of Aubrey Pump Station. See section E5.3.1 of bid documents.</b>	
8.0	Fracture at 4:00 and 8:00
77.8	Solid debris removal, encrustation on pipe wall from 8:00 to 3:00
133.0 – 133.5	Solid debris removal, encrustation on pipe wall at 3:00

<b>Chalmers Ave (Asset No. MA40008901)</b>	<b>1<sup>st</sup> MH E of Roch St (Asset No. MH40008102) to 2<sup>nd</sup> MH E of Roch St (Asset No. MH40007408)</b>
Size/Shape	300 mm
Material	Clay
Total Length	101.6 m
Sewer Depth to Invert – maximum	3.67 m
Design Condition	Fully Deteriorated 7%

<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40008102	
<b>*DUE TO LOCATION OF SEWER REPAIRS EXTREMELY DIFFICULT</b>	
5.1	Remove intruding service @4:00
5.7	Remove intruding service @10:00
11.7	Solid debris removal, encrustation on pipe wall from 6:00 to 7:00
13.0 – 13.3	*Broken pipe from 9:00 to 12:00
13.2 – 13.7	Solid debris removal, encrustation on pipe wall from 6:00 to 7:00
18.4	Solid debris removal, encrustation on pipe wall at 9:00
19.4 – 19.6	Solid debris removal, encrustation on pipe wall from 5:00 to 6:00
25.7	Remove intruding service @3:00
25.9 – 26.0	Solid debris removal, encrustation on pipe wall at 3:00
35.7	Remove intruding service @3:00
36.8	Solid debris removal, encrustation on service from 7:00 to 10:00
38.5	Solid debris removal, encrustation on joint from 7:00 to 9:00
38.9	Solid debris removal, encrustation on service from 7:00 to 9:00
45.5	Remove intruding service @2:00
53.0	Solid debris removal, encrustation on joint from 8:00 to 9:00
54.4	Remove intruding service @12:00
55.1	Remove intruding service @12:00
57.5	Solid debris removal, encrustation on joint from 2:00 to 4:00
88.6	Remove intruding service @11:00
96.4 – 96.8	*Broken pipe from 3:00 to 4:00
96.7	Remove intruding service @3:00
100.6	Remove intruding service @1:00

<b>Easement E of Valley View Dr (Asset No. MA20000216)</b>	<b>MH at Ness Ave (Asset No. MH20000163) to 1<sup>st</sup> MH E of Valley View Dr (Asset No. MH20000158)</b>
Size/Shape	300 mm
Material	Concrete
Total Length	48.2 m
Sewer Depth to Invert – maximum	2.55 m
Design Condition	Fully Deteriorated 11%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH20000163	
<b>*DUE TO LOCATION OF SEWER REPAIRS EXTREMELY DIFFICULT</b>	
4.9	Solid debris removal, encrustation on joint from 8:00 to 9:00

4.7 – 4.9	Solid debris removal, encrustation on pipe wall from 4:00 to 5:00
18.9	Solid debris removal, roots on joint from 7:00 to 8:00
24.3	Solid debris removal, roots on joint from 7:00 to 8:00
34.4	Solid debris removal, encrustation on joint from 3:00 to 5:00
42.2 – 42.8	Solid debris removal, encrustation on pipe wall from 3:00 to 9:00
46.2	Remove bar (To be done by others)

<b>Nottingham Ave (Asset No. MA40007650)</b>	<b>1<sup>st</sup> MH W of London St (Asset No. MH40007014) to 2<sup>nd</sup> MH W of London St (Asset No. MH40006961)</b>
Size/Shape	300 mm
Material	Concrete
Total Length	97.9 m
Sewer Depth to Invert – maximum	4.29 m
Design Condition	Fully Deteriorated 12%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Required Action</b>
Distance From MH40007014	
<b>*DUE TO LOCATION OF SEWER REPAIRS EXTREMELY DIFFICULT</b>	
0.0 – 0.3	Solid debris removal, encrustation on pipe wall from 3:00 to 11:00
3.8	Solid debris removal, encrustation on joint from 3:00 to 4:00
4.0	Solid debris removal, encrustation on service from 8:00 to 10:00
4.7	Solid debris removal, encrustation on joint from 2:00 to 4:00
7.8	Solid debris removal, encrustation on service from 3:00 to 4:00
10.8	Solid debris removal, encrustation on joint from 8:00 to 11:00
11.6	Solid debris removal, encrustation on joint from 12:00 to 4:00
12.4	Solid debris removal, encrustation on joint from 9:00 to 11:00
13.9	Solid debris removal, encrustation on joint from at 3:00 and remove debris on pipe inv
14.5	Solid debris removal, encrustation on joint from 4:00 to 9:00
21.0	Solid debris removal, encrustation on joint from 8:00 to 10:00
21.7	Solid debris removal, encrustation on joint from 2:00 to 4:00
22.5	Solid debris removal, encrustation on joint from 2:00 to 4:00
23.3	Solid debris removal, encrustation on joint from 1:00 to 9:00

26.0	Solid debris removal, encrustation on service from 2:00 to 5:00
27.3	Solid debris removal, encrustation on service from 7:00 to 10:00
29.5	Solid debris removal, encrustation on joint from 1:00 to 5:00
30.3	Solid debris removal, encrustation on joint from 3:00 to 8:00
32.5	Solid debris removal, encrustation on joint from 7:00 to 8:00
34.0	Solid debris removal, encrustation on service from 7:00 to 9:00
36.5	Solid debris removal, encrustation on joint from 3:00 to 4:00
40.3	Solid debris removal, encrustation on joint from 9:00 to 3:00
41.9	Solid debris removal, encrustation on joint from 8:00 to 9:00
43.5	Solid debris removal, encrustation on joint from 1:00 to 9:00
44.2	Solid debris removal, encrustation on joint from 12:00 to 4:00
46.5	Solid debris removal, encrustation on joint at 3:00
50.4	Solid debris removal, encrustation on joint from 7:00 to 9:00
52.0	Solid debris removal, encrustation on joint from 6:00 to 7:00
53.7	Solid debris removal, encrustation on service from 7:00 to 9:00
54.2	Solid debris removal, encrustation on joint from 3:00 to 4:00
54.4	*Broken pipe at 12:00
54.5	Remove intruding service @1:00
57.7	Solid debris removal, encrustation on service from 3:00 to 4:00
60.5	Solid debris removal, encrustation on joint from 2:00 to 4:00
61.3	Solid debris removal, encrustation on joint from 12:00 to 6:00
62.0	Solid debris removal, encrustation on joint from 8:00 to 10:00
65.2	Solid debris removal, encrustation on joint from 3:00 to 5:00
65.3	Remove intruding service @9:00
75.6	Solid debris removal, encrustation on service from 3:00 to 4:00
81.4	Solid debris removal, encrustation on joint from 9:00 to 4:00
82.3	Solid debris removal, encrustation on joint from 2:00 to 9:00
83.0	Solid debris removal, encrustation on joint from 8:00 to 10:00
84.6	Solid debris removal, encrustation on joint from 2:00 to 4:00



87.6	Solid debris removal, encrustation on joint from 7:00 to 9:00
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<b>Sherbrook St (Asset No. MA20019859)</b>	<b>MH at Henry Ave (Asset No. MH20017885) to MH at Logan Ave (Asset No. MH70028626)</b>
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Size/Shape	600 mm
Material	Brick
Total Length	133.9 m
Sewer Depth to Invert – maximum	5.85 m
Design Condition	Partially Deteriorated 3%

**Site Specific Repairs**

<b>Location</b>	<b>Required Action</b>
Distance From MH20017885	
5.5 -6.4	Solid debris removal, encrustation on pipe wall from 2:00 to 4:00
9.8 – 10.2	Solid debris removal, encrustation on pipe wall from 2:00 to 4:00
17.9	Solid debris removal, encrustation on pipe wall from 1:00 to 4:00
24.0	Solid debris removal, encrustation on service from 3:00 to 4:00
26.4 – 27.2	Solid debris removal, encrustation on pipe wall from 7:00 to 9:00
27.3	Solid debris removal, encrustation on service from 6:00 to 9:00
27.8 – 28.1	Solid debris removal, encrustation on pipe wall from 7:00 to 9:00
28.9 – 35.7	Solid debris removal, encrustation on pipe wall from 1:00 to 5:00
48.3	Remove intruding service @10:00
53.8	Solid debris removal, encrustation on service from 7:00 to 9:00
64.4	Solid debris removal, encrustation on service from 3:00 to 4:00
64.8 – 67.2	Solid debris removal, encrustation on pipe wall from 3:00 to 5:00
67.5	Solid debris removal, encrustation on service from 3:00 to 4:00
67.5	Solid debris removal, encrustation on service from 8:00 to 9:00
68.3 – 68.6	Solid debris removal, encrustation on pipe wall from 3:00 to 4:00
69.4	Solid debris removal, encrustation on service from 3:00 to 4:00
70.0	Solid debris removal, encrustation on service from 8:00 to 9:00
73.0	Remove intruding service @9:00
74.5 – 131.6	Solid debris removal, encrustation on pipe wall from 12:00 to 12:00
75.3	Remove intruding service @1:00