

APPENDIX A – SITE SPECIFIC DESIGN CONDITIONS AND REPAIR REQUIREMENTS

Full Segment Renovations

Agnes St (Asset No. MA20016365)	1st MH N of Ellice Av (Asset No. MH20014725) to MH at Ellice Av (Asset No. MH20014723)
Size/Shape	450 mm
Material	Vitrified Clay
Total Length	52.1 m
Sewer Depth to Invert – maximum	4.4 m
Design Condition	
Partially Deteriorated 8%	
Site Specific Repairs	
Location	Required Action
Distance From MH20014725	
1.2	Solid debris removal, encrustation at service from 3:00 to 6:00
44.1	Solid debris removal, encrustation on pipe wall from 7:00 to 11:00

Aikens St (Asset No. MA00008831)	MH at Seven Oaks St (Asset No. MH00011345) to MH at Jefferson Av (Asset No. MH00009925)
Size/Shape	600 mm
Material	CMP/Vitrified Clay
Total Length	86.7 m
Sewer Depth to Invert – maximum	5.35 m
Design Condition	
Partially Deteriorated 8%	
Site Specific Repairs	
Location	Required Action
Distance From MH00011345	
5.7	Solid debris removal, encrustation on pipe wall from 8:00 to 2:00
16.0	Solid debris removal, encrustation on pipe wall from 1:00 to 3:00
23.0	Solid debris removal, encrustation at joint from 7:00 to 1:00
27.6	Material Change from CMP to VC
40.6	Solid debris removal, encrustation at service at 10:00
43.0	Remove intruding service at 10:00

Airlies St (Asset No. MA00002087)	1st MH S of Arrowood Dr N (Asset No. MH00001549) to 2nd MH S of Arrowood Dr N (Asset No. MH00009418)
Size/Shape	525 mm
Material	Concrete
Total Length	81.0 m
Sewer Depth to Invert – maximum	4.52 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH00001549 0.0	Solid debris removal, encrustation at service from 7:00 to 11:00

Alexander Av (Asset No. MA70025419)	1st MH E of Lily St (Asset No. MH20012134) to MH at Lily St (Asset No. MH7008761)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	114.1 m
Sewer Depth to Invert – maximum	4.4 m
Design Condition	
Partially Deteriorated 8%	
Site Specific Repairs	
Location	Required Action
Distance From MH20012134 5.0 29.1 29.1 29.9 32.9 80.3 85.8 96.9	Solid debris removal, broken pipe at at 2:00 Remove intruding service at 2:00 Solid debris removal, encrustation at service at 7:00 Remove intruding service at 2:00 Remove intruding service at 10:00 Solid debris removal, encrustation at service at 10:00 Solid debris removal, encrustation at service at 10:00 Solid debris removal, encrustation at

102.7	service from 2:00 to 5:00
103.4	Solid debris removal, encrustation at service from 7:00 to 11:00
103.4	Remove intruding service at 10:00
104.9	Solid debris removal, encrustation at joint from 8:00 to 5:00
106.1	Remove intruding service at 10:00
	Solid debris removal, encrustation at service from 2:00 to 5:00

Alexander Av (Asset No. MA20018748)	MH at Isabel St (Asset No. MH20016866) to MH at Lane E of Isabel St (Asset No. MH20016867)
Size/Shape	600 mm
Material	Brick
Total Length	20.3 m
Sewer Depth to Invert – maximum	5.57 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH20016866	
4.8	Solid debris removal, encrustation at service at 12:00

Anderson Av (Asset No. MA00015621)	1 st MH W of Omeara St (Asset No. MH00013885) to MH at Main St (Asset No. MH00013912)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	95.7 m
Sewer Depth to Invert – maximum	6.53 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH00013885	
0.0 – 2.0	External Point Repair (To Be Done By Others)
48.0	Remove intruding service at 2:00

48.0	Solid debris removal, encrustation at service from 2:00 to 5:00
57.4	Solid debris removal, encrustation at joint from 3:00 to 5:00
60.6	Solid debris removal, encrustation at joint at 5:00
62.9	Solid debris removal, encrustation at joint from 2:00 to 5:00
82.6	Solid debris removal, encrustation at service from 6:00 to 11:00
88.1	Solid debris removal, encrustation at joint from 8:00 to 11:00
88.6	Solid debris removal, encrustation at joint from 7:00 to 5:00

Annabella St (Asset No. MA00014099)	1st S of Rover Av (Asset No. MH00012578) to MH at Rover Av (Asset No. MH00012233)
Size/Shape	375 mm
Material	Vitrified Clay
Total Length	94.2m
Sewer Depth to Invert – maximum	4.36 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH00012570	
16.9	Remove intruding service at 2:00
41.3	Remove intruding service at 2:00
42.3	Remove intruding service at 3:00
91.5 – 94.2	External Point Repair (To Be Done By Others)

Assiniboine Cr (Asset No. MA20005382)	1st MH E of Olive St (Asset No. MH20004914) to MH at Olive St (CL) (Asset No. MH20004925)
Size/Shape	450 mm
Material	Concrete
Total Length	101.8 m
Sewer Depth to Invert – maximum	2.68 m
Design Condition	
Fully Deteriorated 10%	

Site Specific Repairs	
Location	Required Action
Distance From MH20004925	
13.0 – 20.8	External Point Repair (To Be Done By Others)
40.8	Remove intruding service at 2:00
43.3 – 47.6	External Point Repair (To Be Done By Others)
94.0 – 98.0	External Point Repair (To Be Done By Others)

Atlantic Av (Asset No. MA00009260)	1st E of Aikins St (Asset No. MH00010930) to MH at Aikins St (Asset No. MH00010948)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	95.9 m
Sewer Depth to Invert – maximum	4.64 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH00010930	
2.5 – 4.7	External Point Repair (To Be Done By Others)
11.1	Solid debris removal, encrustation at joint from 8:00 to 10:00
26.5	Solid debris removal, encrustation at joint from 8:00 to 10:00
47.5	Solid debris removal, encrustation at service from 12:00 to 5:00
69.1 – 74.0	External Point Repair (To Be Done By Others)
83.3	Solid debris removal, encrustation at joint at 9:00

Atlantic Av (Asset No. MA00009294)	1st W of Aikins St (Asset No. MH00010950) to MH at Aikins St (Asset No. MH00010948)
Size/Shape	375 mm
Material	Vitrified Clay
Total Length	99.8 m
Sewer Depth to Invert – maximum	4.64 m
Design Condition	

Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH00010950	
19.9	Solid debris removal, encrustation at service from 8:00 to 10:00
30.6	Solid debris removal, encrustation on pipe wall from 8:00 to 10:00
34.3	Solid debris removal, encrustation at joint from 2:00 to 5:00
49.5 – 50.5	External Point Repair (To Be Done By Others)
59.6	Solid debris removal, encrustation at joint from 7:00 to 11:00
68.5	Remove intruding service at 2:00
69.6	Solid debris removal, encrustation at service at 2:00

Balmoral St (Asset No. MA20014832)	1st MH N of St. Mary Av (Asset No. MH20013412) to 1st MH S of St. Mary Av (Asset No. MH20013399)
Size/Shape	300 mm
Material	Concrete
Total Length	77.7 m
Sewer Depth to Invert – maximum	3.62 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20013412	
23.8	Solid debris removal, encrustation at service at 2:00
60.5	Remove intruding service at 10:00

Bond St (Asset No. MA40013763)	MH at Yale Av (Asset No. MH40012460) to MH at Ravelston Av (Asset No. MH40012506)
Size/Shape	250 mm
Material	Vitrified Clay
Total Length	89.3 m
Sewer Depth to Invert – maximum	4.03 m

Design Condition	
Fully Deteriorated 10%	Excessive Grease entire length
Site Specific Repairs	
Location	Required Action
Distance From MH40012460	
3.1	Solid debris removal, encrustation at joint at 8:00
5.1	Solid debris removal, encrustation at joint at 4:00
65.2	Solid debris removal, roots at service from 7:00 to 11:00
66.5	Solid debris removal, roots at service from 8:00 to 12:00

Bond St (Asset No. MA40013845)	MH at Harvard Av (Asset No. MH40012508) to MH at Whittier Av (Asset No. MH40012509)
Size/Shape	250 mm
Material	Concrete
Total Length	87.3 m
Sewer Depth to Invert – maximum	4.7 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40012508	
28.2	Solid debris removal, encrustation on pipe wall at 10:00
45.0	Remove intruding service at 10:00
75.1	Solid debris removal, encrustation at service from 8:00 to 2:00

Brazier St (Asset No. MA40008957)	MH at Harbison Av (Asset No. MH40008158) to Plug S of Harbison Av W (Asset No. MH40003140)
Size/Shape	300/250 mm
Material	Vitrified Clay
Total Length	38.3 m
Sewer Depth to Invert – maximum	4.12m
Design Condition	

Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH40008158	
0.1	Dimension change 300 to 250
36.2	Solid debris removal, rebar at 6:00

Brelade St (Asset No. MA40008987)	MH at Pandora Av E (Asset No. MH40008169) to MH at Sark Cr (Asset No. MH40008173)
Size/Shape	200 mm
Material	Concrete
Total Length	51.9 m
Sewer Depth to Invert – maximum	2.56 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40008169	
1.0	Hole at 6:00 – line over
10.1	Hole at 6:00 to 7:00 – line over
23.6	Solid debris removal, encrustation on pipe wall at 5:00
23.8	Solid debris removal, encrustation at joint from 4:00 to 9:00
29.6	Solid debris removal, encrustation at joint from 2:00 to 6:00
37.9	Solid debris removal, encrustation at service from 2:00 to 5:00
40.6	Remove intruding service at 4:00
50.8	Solid debris removal, encrustation at joint from 2:00 to 8:00

Broadway (Asset No. MA20014277)	MH at Garry St (Asset No. MH20012950) to MH at Smith St (Asset No. MH20012912)
Size/Shape	600 mm
Material	Concrete

Total Length	99.2 m
Sewer Depth to Invert – maximum	4.85 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH20012950	
29.8	Solid debris removal, encrustation at joint from 1:00 to 11:00
30.7	Solid debris removal, encrustation at joint from 1:00 to 11:00
35.4	Solid debris removal, encrustation at joint from 8:00 to 4:00
36.2	Solid debris removal, encrustation at joint from 4:00 to 9:00
39.9	Solid debris removal, encrustation at joint from 4:00 to 11:00
40.5 – 42.0	Solid debris removal, encrustation on pipe wall from 7:00 to 5:00
42.8	Solid debris removal, encrustation at joint from 2:00 to 9:00
48.0	Solid debris removal, encrustation at service from 2:00 to 10:00
49.2	Solid debris removal, encrustation at joint from 2:00 to 10:00
50.2	Solid debris removal, encrustation at joint from 8:00 to 6:00
50.9	Solid debris removal, encrustation at joint from 9:00 to 5:00
50.2 – 52.0	Solid debris removal, encrustation on pipe wall from 7:00 to 5:00
53.7	Solid debris removal, encrustation at joint from 8:00 to 1:00
54.8	Solid debris removal, encrustation at joint from 7:00 to 5:00
55.8	Solid debris removal, encrustation at joint from 7:00 to 5:00
60.2	Solid debris removal, encrustation at joint from 1:00 to 5:00
61.2	Solid debris removal, encrustation at joint from 9:00 to 5:00
62.4	Solid debris removal, encrustation at joint from 10:00 to 5:00
63.0	Solid debris removal, encrustation at service from 2:00 to 5:00
65.8	Solid debris removal, encrustation at joint from 8:00 to 4:00
66.8	Solid debris removal, encrustation at joint from 8:00 to 4:00
67.8	Solid debris removal, encrustation at joint from 8:00 to 4:00

Carmen Av (Asset No. MA40003427)	1 st MH W of Henderson Hw (Asset No. MH40004748) to MH at Hederson Hw (Asset No. MH40007884)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	138.4 m
Sewer Depth to Invert – maximum	3.9 m
Design Condition Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40004748 0 - 12.4 23.5 – 28.6 28.5 – 33.5 38.8 44.3 45.0 45.6 46.2 70.5 74.5 75.1 77.1 82.4 86.9 98.0 104.2 110.3 111.0 111.7 112.5	Solid debris removal, roots at joint from 9:00 to 3:00 Solid debris removal, roots on pipe wall from 9:00 to 3:00 External Point Repair (To Be Done By Others) Remove intruding service at 2:00 Solid debris removal, encrustation at joint from 3:00 to 9:00 Solid debris removal, encrustation at joint from 3:00 to 9:00 Solid debris removal, encrustation at joint from 3:00 to 9:00 Solid debris removal, encrustation at joint from 4:00 to 6:00 Solid debris removal, encrustation at joint from 4:00 to 9:00 Solid debris removal, encrustation at joint from 4:00 to 9:00 Solid debris removal, encrustation at joint from 2:00 to 3:00 Solid debris removal, encrustation at service from 7:00 to 9:00 Remove intruding service at 10:00 Solid debris removal, encrustation at service from 8:00 to 9:00 Solid debris removal, encrustation at joint at 6:00 Solid debris removal, encrustation at service at 3:00 Solid debris removal, encrustation at joint from 7:00 to 9:00 Solid debris removal, encrustation at joint from 2:00 to 8:00 Solid debris removal, encrustation at service from 3:00 to 4:00 Solid debris removal, encrustation at joint at 4:00

113.0	Solid debris removal, encrustation at service from 7:00 to 9:00
119.4	Solid debris removal, encrustation at service from 3:00 to 5:00
132.9	Solid debris removal, encrustation at joint from 1:00 to 6:00
133.7	Solid debris removal, encrustation at joint from 7:00 to 5:00

College Av (Asset No. MA00011968)	1 st MH W of Arlington St (Asset No. MH00010335) to MH at Arlington St (Asset No. MH00011367)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	94.2 m
Sewer Depth to Invert – maximum	4.68 m
Design Condition	
Partially Deteriorated 8%	
Site Specific Repairs	
Location	Required Action
Distance From MH00010335	
0.0 – 5.7	External Point Repair (To Be Done By Others)
36.9	Solid debris removal, encrustation at joint from 3:00 to 9:00
74.7	Solid debris removal, encrustation at service at 9:00

Colony St (easement) (Asset No. MA20014795)	MH at Broadway (Asset No. MH20013426) to 1 st MH S of Broadway (Asset No. MH20013360)
Size/Shape	680 mm
Material	Concrete
Total Length	145.2 m
Sewer Depth to Invert – maximum	6.3 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH20013426	
33.3	Solid debris removal, encrustation on pipe wall from 12:00 to 5:00

39.6	Solid debris removal, encrustation on pipe wall from 9:00 to 12:00
60.08	Solid debris removal, encrustation at joint from 9:00 to 3:00
63.6	Solid debris removal, encrustation on pipe wall from 9:00 to 3:00
71.8	Solid debris removal, encrustation on pipe wall at 1:00
96.1	Solid debris removal, encrustation at joint from 2:00 to 5:00
102.1	Solid debris removal, encrustation at joint from 9:00 to 5:00
108.4	Solid debris removal, encrustation at joint from 9:00 to 3:00
125.8	Solid debris removal, encrustation at joint from 8:00 to 4:00
131.4	Solid debris removal, encrustation on pipe wall at 11:00

Day St (Asset No. MA40011838)	MH at Regent Av W (Asset No. MH40010704) to MH at Victoria Av W (Asset No. MH40010742)
Size/Shape	250 mm
Material	Vitrified Clay
Total Length	91.0 m
Sewer Depth to Invert – maximum	3.77 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH40010704	
22.7	Solid debris removal, encrustation at joint from 9:00 to 4:00
27.0	Remove intruding service at 10:00
37.4	Remove intruding service at 2:00
44.6	Solid debris removal, encrustation at service from 9:00 to 4:00
47.3	Solid debris removal, encrustation at service from 9:00 to 4:00
59.0 – 60.5	External Point Repair (To Be Done By Others)
65.0	Solid debris removal, encrustation at joint at 7:00
65.9	Solid debris removal, encrustation at joint from 7:00 to 8:00
66.9	Solid debris removal, encrustation at joint from 7:00 to 8:00
68.7	Solid debris removal, encrustation at joint from 3:00 to 4:00

81.1	Solid debris removal, encrustation at joint from 11:00 to 1:00

Dunrobin Av (Asset No. MA40006130)	2nd W of Golspie St (Asset No. MH40003955) to MH at Watt St (CL) (Asset No. MH40005592)
Size/Shape	375 mm
Material	Vitrified Clay
Total Length	119.5 m
Sewer Depth to Invert – maximum	4.5 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40003955	
3.8	Solid debris removal, encrustation at joint from 3:00 to 8:00
4.6	Solid debris removal, encrustation at joint from 7:00 to 8:00
6.3	Solid debris removal, encrustation at joint from 7:00 to 9:00
7.7	Solid debris removal, encrustation at joint from 2:00 to 5:00
13.2	Solid debris removal, encrustation at joint from 4:00 to 8:00
15.7	Solid debris removal, encrustation at service at 9:00
16.3	Solid debris removal, encrustation at joint at 3:00
16.6	Solid debris removal, encrustation at service at 3:00
17.1	Solid debris removal, encrustation at joint from 3:00 to 9:00
17.9	Solid debris removal, encrustation at joint from 2:00 to 9:00
21.0	Solid debris removal, encrustation at joint from 2:00 to 9:00
21.8	Solid debris removal, encrustation at joint at 8:00
23.3	Solid debris removal, encrustation at joint at 8:00
24.1	Solid debris removal, encrustation at joint at 4:00
25.6	Solid debris removal, encrustation at joint at 8:00
41.9	Solid debris removal, encrustation at joint at 8:00
67.5	Solid debris removal, encrustation at joint from 7:00 to 8:00
102.4	Solid debris removal, roots at joint from 11:00 to 5:00

103.7	Solid debris removal, roots at joint from 10:00 to 3:00
111.0	Solid debris removal, encrustation at joint from 8:00 to 3:00

Edmonton St (Asset No. MA20014125)	MH at York Av (NPL) (Asset No. MH20012729) to 1st MH N of York Av (Asset No. MH20012780)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	74.3 m
Sewer Depth to Invert – maximum	3.11 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20012729	
4.6	Remove intruding service at 10:00
42.1	Remove intruding service at 10:00
72.8 – 74.3	External Point Repair (To Be Done By Others)

Ellen St (Asset No. MA20015676)	MH at Notre Dame Av (NPL) (Asset No. MH70040282) to 1st MH N of Notre Dame Av (Asset No. MH70040280)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	75.0 m
Sewer Depth to Invert – maximum	2.97 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH70040282	
14.3	Remove intruding service at 9:00
28.2	Solid debris removal, encrustation at joint from 3:00 to 9:00
28.8	Solid debris removal, encrustation at service from 2:00 to 3:00
36.3	Solid debris removal, encrustation at service at 4:00

52.2	Solid debris removal, encrustation at service at 3:00

Fort St (Asset No. MA20016095)	1st MH N of York Av (Asset No. MH20014478) to MH at St. Mary Av (Asset No. MH20014429)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	79.7 m
Sewer Depth to Invert – maximum	3.06 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20014478	
5.2	Solid debris removal, encrustation at service from 3:00 to 6:00
5.7	Solid debris removal, encrustation at service from 7:00 to 9:00
8.7	Remove intruding service at 3:00
20.3	Solid debris removal, encrustation at service from 2:00 to 5:00
43.7	Remove intruding service at 10:00
51.5	Solid debris removal, encrustation at service from 7:00 to 8:00
65.6	Solid debris removal, encrustation at service from 3:00 to 6:00
73.5 – 74.5	Solid debris removal, encrustation on pipe wall from 7:00 to 5:00
75.7	Solid debris removal, encrustation at joint from 7:00 to 5:00

Glenway Av (Asset No. MA40000007)	1st MH W of Henderson Hw (Asset No. MH40000010) to Intersection of Henderson (Asset No. MH40000008)
Size/Shape	250 mm
Material	Concrete
Total Length	105.0 m
Sewer Depth to Invert – maximum	4.1 m
Design Condition	
Partially Deteriorated 8%	
Site Specific Repairs	
Location	Required Action

Distance From MH40000010	
48.9	Remove intruding service at 2:00

Good St (Asset No. MA20014806)	1st MH N of Broadway (Asset No. MH20013384) to MH at Broadway (Asset No. MH20013386)
Size/Shape	375 mm
Material	Vitrified Clay
Total Length	132.1 m
Sewer Depth to Invert – maximum	6.12 m
Design Condition	
Fully Deteriorated 10%	12.2 metres of inspection missing
Site Specific Repairs	
Location	Required Action
Distance From MH20013384	
5.1	Solid debris removal, encrustation at service from 2:00 to 4:00
5.5	Solid debris removal, encrustation at joint from 2:00 to 5:00
11.1	Solid debris removal, encrustation at service from 1:00 to 5:00
62.3	Remove intruding service at 11:00
65.3	Solid debris removal, encrustation at service from 2:00 to 4:00
68.9	Solid debris removal, encrustation at joint from 12:00 to 5:00
Distance From MH20013386	
15.3	Solid debris removal, encrustation at joint from 8:00 to 4:00
15.6	Solid debris removal, encrustation at joint from 2:00 to 5:00
28.2	Solid debris removal, encrustation at service from 2:00 to 5:00
28.2	Remove intruding service at 2:00
32.0	Solid debris removal, encrustation at service from 8:00 to 4:00
48.3	Solid debris removal, encrustation at service at 10:00
48.5	Solid debris removal, encrustation at joint at 8:00
50.9	Solid debris removal, encrustation at service from 12:00 to 5:00

Graham Av (Asset No. MA20015721)		1 st MH W of Hargrave St (Asset No. MH20020762) to MH at Carlton St (Asset No. MH20014150)	
Size/Shape		300 mm	
Material		Vitrified Clay	
Total Length		58.1 m	
Sewer Depth to Invert – maximum		3.4 m	
Design Condition			
Fully Deteriorated 10%			
Site Specific Repairs			
Location		Required Action	
Distance From MH20020762			
12.5		Solid debris removal, encrustation at joint from 7:00 to 5:00	
19.3		Solid debris removal, encrustation at joint from 7:00 to 8:00	
29.3		Solid debris removal, encrustation at joint from 1:00 to 3:00	
30.0		Solid debris removal, encrustation at joint from 8:00 to 5:00	
42.4		Solid debris removal, encrustation at joint from 10:00 to 3:00	
43.0		Solid debris removal, encrustation at joint from 10:00 to 3:00	
44.2		Solid debris removal, encrustation at joint at 2:00	
48.8		Solid debris removal, encrustation at service from 2:00 to 5:00	
56.1 – 57.3		External Point Repair (To Be Done By Others)	

Greene Av (Asset No. MA40001843)	3 rd MH W of Woodvale St (Asset No. MH40001662) to MH at Kildonan Dr (Asset No. MH40006640)
Size/Shape	450 mm
Material	Vitrified Clay
Total Length	95.7 m
Sewer Depth to Invert – maximum	5.53 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40001662	
8.9	Solid debris removal, encrustation at

9.9	service from 8:00 to 10:00
28.7	Solid debris removal, encrustation at joint from 7:00 to 9:00
28.8	Solid debris removal, encrustation at joint from 8:00 to 10:00
28.8	Remove intruding service at 2:00
29.5	Solid debris removal, roots at service from 2:00 to 5:00
31.1	Solid debris removal, encrustation at joint from 7:00 to 10:00
81.8	Solid debris removal, encrustation at joint from 7:00 to 8:00
	Solid debris removal, encrustation at joint from 9:00 to 1:00

Helmsdale Av (Asset No. MA40006896)		1st W of Kildonan Dr (Asset No. MH40006328) to 2nd W of Kildonan Dr (Asset No. MH40006310)	
Size/Shape		250 mm	
Material		Vitrified Clay	
Total Length		57.2 m	
Sewer Depth to Invert – maximum		4.75 m	
Design Condition			
Partially Deteriorated 8%			
Site Specific Repairs			
Location		Required Action	
Distance From MH40006328			
44.6		Remove intruding service at 10:00	

Henderson Hw (Asset No. MA40005286)		MH at Larsen Av (Asset No. MH40004801) to 1st MH S of Larsen Av (Asset No. MH40004802)	
Size/Shape		300 mm	
Material		Vitrified Clay	
Total Length		28.0 m	
Sewer Depth to Invert – maximum		4.5 m	
Design Condition			
Fully Deteriorated 10%			
Site Specific Repairs			
Location		Required Action	

Distance From MH40004801	
6.3	Solid debris removal, encrustation on pipe wall from 7:00 to 11:00
8.6	Solid debris removal, encrustation at joint from 8:00 to 3:00
16.2	Solid debris removal, encrustation at service from 6:00 to 12:00
23.2 – 24.0	Solid debris removal, encrustation on pipe wall from 8:00 to 2:00

Isabel St (Asset No. MA700069623)	MH at Pacific Av (SPL) (Asset No. MH70032815) to MH at Pacific Av (CL) (Asset No. MH20016873)
Size/Shape	600 mm
Material	Brick
Total Length	9.2 m
Sewer Depth to Invert – maximum	5.1 m
Design Condition	
Partially Deteriorated 8%	
Site Specific Repairs	
Location	Required Action
No preparatory work	

Isabel St (Asset No. MA20018577)	MH at McDermot Av (Asset No. MH20016632) to TE at Bannatyne Av (Asset No. MH20006794)
Size/Shape	600 mm
Material	Brick
Total Length	101.5 m
Sewer Depth to Invert – maximum	5.35 m
Design Condition	
Partially Deteriorated 8%	Missing inspection after 57.4
Site Specific Repairs	
Location	Required Action
Distance From MH2001632	
48.8	Solid debris removal, encrustation on pipe wall from 7:00 to 10:00
57.4	Solid debris removal, encrustation at service from 7:00 to 12:00

Lane E of Isabel St (Asset No. MA20018813)	1st MH (Asset No. MH20016867) to TE at Logan Av (Asset No. node)
Size/Shape	600 mm
Material	Brick
Total Length	107.4 m
Sewer Depth to Invert – maximum	5.57 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20016867	
7.8 – 10.8	External Point Repair (To Be Done By Others)
22.5	Existing intermediate manhole
52.5	Solid debris removal, encrustation at service from 1:00 to 4:00

Jamison Av (Asset No. MA40008463)	MH at Watt St (WPL) (Asset No. MH40007700) to 1st MH W of Watt St (Asset No. MH40007707)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	100.6 m
Sewer Depth to Invert – maximum	3.47 m
Design Condition	
Partially Deteriorated 8%	
Site Specific Repairs	
Location	Required Action
Distance From MH40007700	
2.5	Solid debris removal, encrustation at joint from 4:00 to 8:00
9.5	Solid debris removal, encrustation at joint at 8:00
12.1	Solid debris removal, encrustation at service at 3:00
17.2	Solid debris removal, encrustation at joint at 3:00
18.0	Solid debris removal, encrustation at joint at 3:00
37.4	Solid debris removal, encrustation at joint from 4:00 to 8:00
38.1	Solid debris removal, encrustation at joint from 7:00 to 8:00

41.9	Solid debris removal, encrustation at joint from 7:00 to 8:00
44.3	Solid debris removal, encrustation at joint from 7:00 to 5:00
46.7	Solid debris removal, encrustation at joint from 5:00 to 9:00
48.5	Solid debris removal, encrustation at service at 8:00
53.2	Solid debris removal, encrustation at joint at 8:00
58.0	Solid debris removal, encrustation at joint at 8:00
58.8	Solid debris removal, encrustation at joint at 4:00
60.5	Solid debris removal, encrustation at joint from 1:00 to 5:00
66.4	Solid debris removal, encrustation at joint at 8:00
67.3	Solid debris removal, encrustation at joint at 3:00
84.5	Solid debris removal, encrustation at joint at 8:00

Keewatin St (CL) (Asset No. MA0007634)	1st MH N of Selkirk Av (Asset No. MH00007613) to MH at Pritchard Av (Asset No. MH00007671)
Size/Shape	300 mm
Material	Concrete
Total Length	82.2 m
Sewer Depth to Invert – maximum	2.76 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
No preparatory work	

Kennedy St (Asset No. MA20014057)	1st MH N of Assiniboine Av (Asset No. MH20012720) to MH at Assiniboine Av (1st E of Kennedy St) (Asset No. MH20012719)
Size/Shape	750 mm
Material	Brick
Total Length	41.0 m
Sewer Depth to Invert – maximum	3.87 m
Design Condition	
Fully Deteriorated 10%	

Site Specific Repairs	
Location	Required Action
Distance From MH20012720	
21.0	Remove intruding service at 2:00
29.0	Rectangular (300x1000) overflow connection

Kingsbury Av (Asset No. MA00017588)	MH at Main St (WPL) (Asset No. MH00000934) to TE at Main St (Asset No. MH00000399)
Size/Shape	250 mm
Material	Vitrified Clay
Total Length	19.8 m
Sewer Depth to Invert – maximum	2.09 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH00000934	
18.2	Solid debris removal, gasket at joint from 3:00 to 8:00
19.8	Install Manhole (To Be Done By Others)

Larsen Av (Asset No. MA40008941)	3rd MH E of Brazier St (Asset No. MH40008141) to MH at Roch St (Asset No. MH40007419)
Size/Shape	300 mm
Material	Concrete
Total Length	90.3 m
Sewer Depth to Invert – maximum	4.38 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH40008141	
3.6	Solid debris removal, encrustation at joint from 8:00 to 11:00
4.3	Remove intruding service at 10:00

4.9	Remove intruding service at 10:00
8.4 – 15.2	External Point Repair (To Be Done By Others)
20.3	Solid debris removal, encrustation at joint at 4:00
21.6	Solid debris removal, encrustation at joint from 2:00 to 5:00
26.6	Solid debris removal, encrustation at joint from 3:00 to 4:00
27.6	Solid debris removal, encrustation at joint from 1:00 to 5:00
31.5	Solid debris removal, encrustation at joint from 2:00 to 4:00
32.7	Solid debris removal, encrustation at joint at 3:00
35.9	Solid debris removal, encrustation at joint from 2:00 to 4:00
47.0	Solid debris removal, encrustation at joint from 7:00 to 9:00
48.8	Solid debris removal, encrustation at joint from 2:00 to 5:00
56.3	Solid debris removal, encrustation at joint at 4:00
64.9	Solid debris removal, encrustation at joint from 2:00 to 5:00
65.5	Solid debris removal, encrustation at joint from 3:00 to 8:00
84.1	Solid debris removal, encrustation at joint from 7:00 to 10:00
84.8	Solid debris removal, encrustation at joint from 4:00 to 5:00
89.1	Solid debris removal, encrustation at joint from 7:00 to 4:00

Lily St (Asset No. MA70009643)	1 st MH S of Henry Av (Asset No. MH7003789) to MH at George Av (Asset No. MH20012158)
Size/Shape	600 mm
Material	Concrete
Total Length	83.5 m
Sewer Depth to Invert – maximum	4.78 m
Design Condition	
Fully Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH70003789	
18.1	Repair Connection (To Be Done By Others)
18.4	Repair Connection

27.6	(To Be Done By Others) Solid debris removal, encrustation at service at 1:00
67.1	Solid debris removal, encrustation on pipe wall at 5:00
75.1	Solid debris removal, encrustation on pipe wall at 7:00

Linden Av (Asset No. MA40006449)	3 rd MH W of Henderson Hw (Asset No. MH40005894) to MH at Woodvale St (Asset No. MH40005895)
Size/Shape	450 mm
Material	Vitrified Clay
Total Length	87.4 m
Sewer Depth to Invert – maximum	6.47 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40005894	
0.0	Solid debris removal, encrustation at joint from 12:00 to 5:00
27.7	Solid debris removal, encrustation at service from 9:00 to 11:00
57.5	Solid debris removal, encrustation at service from 1:00 to 4:00
58.1	Solid debris removal, encrustation at joint from 9:00 to 3:00
58.6	Solid debris removal, encrustation at joint from 9:00 to 12:00

Linden Av (Asset No. MA40006448)	2 nd MH W of Henderson Hw (Asset No. MH40006115) 3 rd MH W of Henderson Hw (Asset No. MH40005894)
Size/Shape	450 mm
Material	Vitrified Clay
Total Length	86.4 m
Sewer Depth to Invert – maximum	6.47 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40006115	
3.2	Solid debris removal, encrustation at

4.0	service from 9:00 to 10:00
4.5	Solid debris removal, encrustation at service at 4:00
6.8	Solid debris removal, encrustation at joint from 1:00 to 3:00
46.6	Solid debris removal, encrustation at joint from 1:00 to 3:00
53.1	Solid debris removal, encrustation at joint from 9:00 to 12:00
68.8	Solid debris removal, encrustation on pipe wall from 12:00 to 3:00
	Solid debris removal, encrustation at service from 8:00 to 10:00

Machray Av (Asset No. MA00009618)		MH at Parr St (E Leg) (Asset No. MH00006197) to 1st MH W of McKenzie St (Asset No. MH00006270)	
Size/Shape		300 mm	
Material		Vitrified Clay	
Total Length		100.0 m	
Sewer Depth to Invert – maximum		3.12 m	
Design Condition			
Fully Deteriorated 10%			
Site Specific Repairs			
Location		Required Action	
Distance From MH00006197			
8.4		Hole at 10:00 – line over	

Maryland St (Asset No. MA20016720)		2ns MH N of Sargent Av (Asset No. MH20015031) to 1st MH N of Sargent Av (Asset No. MH20015032)	
Size/Shape		300 mm	
Material		Vitrified Clay	
Total Length		92.1 m	
Sewer Depth to Invert – maximum		2.86 m	
Design Condition			
Fully Deteriorated 10%			
Site Specific Repairs			
Location		Required Action	
Distance From MH20015031			
21.4		Solid debris removal, encrustation at	

58.2	joint from 3:00 to 5:00
59.2	Solid debris removal, encrustation at joint from 2:00 to 10:00
77.4	Remove intruding service at 10:00
82.4	Remove intruding service at 2:00
	Solid debris removal, broken pipe at joint at 11:00

Maryland St (Asset No. MA20014360)	MH at Alloway Av (Asset No. MH20012981) to Sara Av (Asset No. MH20012987)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	41.2 m
Sewer Depth to Invert – maximum	4.93 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH20012981	
20.6	Remove intruding service at 2:00
26.3	Remove intruding service at 10:00

McGee St (Asset No. MA20014384)	1 st MH N of Portage Av (Asset No. MH20013001) to (Asset No. MH20013014)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	46.4 m
Sewer Depth to Invert – maximum	3.6 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH20013001	
2.6	Hole at 8:00 – line over
23.6	Remove intruding service at 2:00
26.3	Solid debris removal, encrustation at joint from 2:00 to 4:00

McPhail St (Asset No. MA70049235)	MH at Dearborn Av (Asset No. MH40007779) to 1st MH N of Dearborn Av (Asset No. MH40007827)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	58.5 m
Sewer Depth to Invert – maximum	4.44 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH40007779	
33.2	Solid debris removal, encrustation at service at 9:00
36.5 – 37.7	Solid debris removal, encrustation on pipe wall from 8:00 to 4:00
44.3 – 45.0	Solid debris removal, encrustation on pipe wall from 8:00 to 4:00
46.9	Solid debris removal, encrustation at service from 1:00 to 4:00
48.7	Solid debris removal, encrustation at joint at 8:00
48.8	Solid debris removal, encrustation at service from 7:00 to 8:00
54.4	Solid debris removal, encrustation at joint at 8:00
54.9	Solid debris removal, encrustation at joint at 8:00
55.5	Solid debris removal, encrustation at joint from 8:00 to 4:00
55.4 – 56.2	External Point Repair (To Be Done By Others)

Moncton Av (Asset No. MA40007228)	MH at Besant St (Asset No. MH40006593) to 1st W of Besant St (Asset No. MH40006588)
Size/Shape	450 mm
Material	Vitrified Clay
Total Length	104.8 m
Sewer Depth to Invert – maximum	5.25 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	

Location	Required Action
Distance From MH40006593	
40.8 – 42.4	External Point Repair (To Be Done By Others)
74.3	Solid debris removal, rebar at joint from 7:00 to 11:00
90.2	Solid debris removal, encrustation at service from 2:00 to 5:00

Ottawa Av (Asset No. MA40004740)	2 nd MH W of Watt St (Asset No. MH40004389) to MH at Roch St (Asset No. MH4004315)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	103.1 m
Sewer Depth to Invert – maximum	5.06 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40004389	
03.7	Solid debris removal, encrustation at joint from 7:00 to 8:00
4.4	Solid debris removal, encrustation at joint from 7:00 to 5:00
6.2	Remove intruding service at 2:00
6.3	Solid debris removal, encrustation at joint from 7:00 to 4:00
7.7	Solid debris removal, encrustation at joint from 12:00 to 3:00
12.8	Solid debris removal, encrustation at joint at 8:00
18.5	Solid debris removal, encrustation at joint from 8:00 to 3:00
19.2	Solid debris removal, encrustation at joint at 8:00
25.2	Solid debris removal, roots at service at 3:00
25.6	Solid debris removal, encrustation at joint from 7:00 to 8:00
30.2	Solid debris removal, encrustation at joint at 8:00
36.6	Solid debris removal, encrustation at joint at 8:00
37.3	Solid debris removal, encrustation at joint from 8:00 to 3:00
41.2	Solid debris removal, encrustation at joint from 8:00 to 4:00

42.7	Solid debris removal, encrustation at joint from 7:00 to 8:00
43.7	Solid debris removal, encrustation on pipe wall from 9:00 to 11:00
46.6	Solid debris removal, encrustation at service from 8:00 to 9:00
48.8	Solid debris removal, encrustation at joint from 8:00 to 4:00
50.4	Hole at 2:00 – line over
52.8	Solid debris removal, encrustation at service from 9:00 to 11:00
60.5	Solid debris removal, encrustation at service from 3:00 to 9:00
61.2	Solid debris removal, encrustation at joint from 1:00 to 5:00
65.1	Solid debris removal, roots at joint from 8:00 to 4:00
67.4	Solid debris removal, encrustation at joint from 8:00 to 4:00
77.2	Solid debris removal, encrustation at joint from 7:00 to 10:00
78.8	Solid debris removal, encrustation at joint from 7:00 to 5:00
79.5	Solid debris removal, encrustation at joint from 9:00 to 4:00
82.7	Solid debris removal, encrustation on pipe wall from 8:00 to 11:00
84.1	Solid debris removal, encrustation at joint from 1:00 to 3:00
85.0	Solid debris removal, encrustation at joint from 9:00 to 3:00
94.3	Solid debris removal, encrustation at service from 9:00 to 10:00
96.4	Solid debris removal, encrustation at joint from 7:00 to 5:00

Picardy PI (Asset No. MA20015481)	MH at Broadway (Asset No. MH20013961) to MH at Chestnut (Asset No. MH20013963)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	43.0 m
Sewer Depth to Invert – maximum	3.8 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20013961	
0.3	Solid debris removal, encrustation at

12.5-13.6	service at 2:00 Solid debris removal, concrete on bottom of pipe from 5:00 to 7:00
24.0	Remove intruding service at 2:00
37.9 – 40.2	Solid debris removal, concrete on bottom of pipe from 5:00 to 7:00

Portage Av (Asset No. MA20014711)		1st MH W of Langside St (Asset No. MH20013283) to MH at Langside St (EPL) (Asset No. MH20013281)	
Size/Shape		300 mm	
Material		Vitrified Clay	
Total Length		33.4 m	
Sewer Depth to Invert – maximum		3.73 m	
Design Condition			
Partially Deteriorated 5%			
Site Specific Repairs			
Location		Required Action	
Distance From MH20013283			
5.3		Solid debris removal, roots at joint at 8:00	
5.9		Solid debris removal, roots at joint at 8:00	

Portage Av (Asset No. MA20016455)		MH at Spence St (Asset No. MH20013351) to MH at Balmoral St (Asset No. MH20014815)	
Size/Shape		300 mm	
Material		Vitrified Clay	
Total Length		107.5 m	
Sewer Depth to Invert – maximum		4.29 m	
Design Condition			
Fully Deteriorated 10%			
Site Specific Repairs			
Location		Required Action	
Distance From MH20013351			
15.6		Remove intruding service at 2:00	
29.7		Solid debris removal, encrustation at joint at 3:00	

31.6	Solid debris removal, encrustation at service from 7:00 to 9:00
32.2	Solid debris removal, encrustation at joint from 9:00 to 3:00
35.4 – 36.7	Solid debris removal, encrustation on pipe wall at 9:00
35.4 – 36.7	Solid debris removal, encrustation on pipe wall at 3:00
48.1	Solid debris removal, encrustation at joint at 3:00
58.1	Solid debris removal, encrustation at joint at 2:00
61.9	Remove intruding service at 2:00
75.5	Solid debris removal, encrustation at joint from 8:00 to 4:00
75.5 – 76.4	Solid debris removal, encrustation on pipe wall from 9:00 to 3:00
92.3	Remove intruding service at 2:00

Portage Av (Asset No. MA20015687)	1 st MH E of Edmonton St (Asset No. MH20014135) to MH at Edmonton St (Asset No. MH20014124)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	46.2 m
Sewer Depth to Invert – maximum	4.3 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH20014135	
6.8	Solid debris removal, encrustation at service from 2:00 to 4:00
33.9	Solid debris removal, encrustation at service from 3:00 to 4:00
37.8	Solid debris removal, encrustation at service from 3:00 to 4:00
41.1	Solid debris removal, encrustation at joint from 8:00 to 10:00

Princess St (Asset No. MA20025455)		MH at James Av (Asset No. MH20017220) to MH at Ross Av (Asset No. MH20017208)	
Size/Shape		300 mm	
Material		Vitrified Clay	
Total Length		55.4 m	

Sewer Depth to Invert – maximum	4.74 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20017220	
8.8	Solid debris removal, encrustation at joint from 12:00 to 6:00
10.7	Remove intruding service at 3:00
13.6	Solid debris removal, encrustation at joint from 8:00 to 4:00
39.7	Remove intruding service at 10:00
46.8	Solid debris removal, encrustation at joint at 3:00

Ravelston Av E (Asset No. MA40009518)	1st MH E of Leola St Asset No. MH40008635) to MH at Leola St (Asset No. MH40008634)
Size/Shape	200 mm
Material	Concrete
Total Length	126.1 m
Sewer Depth to Invert – maximum	3.48 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40008635	
6.9	Remove intruding service at 10:00
36.1	Solid debris removal, encrustation at service at 10:00
48.0	Solid debris removal, encrustation at service at 2:00
70.0 – 72.5	Solid debris removal, grease on pipe wall from 12:00 to 2:00
86.0 – 86.5	Hole at 6:00 – line over
93.2 – 93.4	Hole at 6:00 – line over
95.6 – 96.1	Solid debris removal, grease on pipe wall at 12:00

Regent Av W (Asset No. MA40011803)	MH at Bond St (Asset No. MH40010693) to 1st MH W of Bond St (Asset No. MH40010677)
Size/Shape	200 mm
Material	Vitrified Clay
Total Length	82.9 m
Sewer Depth to Invert – maximum	2.7 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40010693	
33.3	Solid debris removal, encrustation at joint from 8:00 to 4:00
35.8	Solid debris removal, encrustation on pipe wall from 5:00 to 7:00
43.6	Solid debris removal, encrustation at service from 7:00 to 4:00
53.3	Solid debris removal, encrustation at service from 8:00 to 4:00
60.0	Solid debris removal, encrustation at joint from 8:00 to 4:00
76.4 – 82.9	External Point Repair (To Be Done By Others)

Regent Av W (Asset No. MA40011756)	1st MH W of Winona St (Asset No. MH40010933) to MH at Winona St (Asset No. MH40010646)
Size/Shape	200 mm
Material	Vitrified Clay
Total Length	92.4 m
Sewer Depth to Invert – maximum	2.9 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40010933	
13.6	Remove intruding service at 2:00
26.2	Remove intruding service at 9:00
34.2	Remove intruding service at 9:00
50.4	Remove intruding service at 9:00
58.0	Solid debris removal, encrustation at service at 8:00

58.8	Solid debris removal, encrustation at service at 4:00 Remove intruding service at 8:00 Remove intruding service at 1:00
61.3	
69.0	

Sanford Fleming Road (Asset No. MA40012605)	MH at Whiteway Rd (Asset No. MH40011419) to MH at Devonshire Dr (Asset No. MH40011432)
Size/Shape	250 mm
Material	Asbestos Cement/Concrete
Total Length	91.6 m
Sewer Depth to Invert – maximum	6.54 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH40011419	
29.5	Solid debris removal, encrustation at joint from 8:00 to 4:00 Solid debris removal, broken pipe at 10:00
33.7	

Sargent Av (CL) (Asset No. MA20017591)	MH at Victor St (Asset No. MH20015792) to MH at Toronto St (Asset No. MH20015801)
Size/Shape	375 mm
Material	Vitrified Clay
Total Length	80.5 m
Sewer Depth to Invert – maximum	3.0 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20015792	
30.4	Solid debris removal, encrustation at joint at 4:00 Solid debris removal, encrustation on pipe wall at 8:00
35.9	
42.8	Remove intruding service at 1:00
43.5	Remove intruding service at 10:00

58.1 – 59.2	Solid debris removal, encrustation on pipe wall from 4:00 to 7:00
62.5	Solid debris removal, encrustation at joint at 4:00
63.0	Solid debris removal, encrustation at joint from 7:00 to 5:00
64.1	Solid debris removal, encrustation at joint from 7:00 to 11:00
64.8	Solid debris removal, encrustation at joint from 7:00 to 11:00
66.6 – 66.8	Solid debris removal, encrustation on pipe wall from 6:00 to 12:00
67.2	Solid debris removal, encrustation at joint from 7:00 to 12:00

Seven Oaks Av (Asset No. MA00008946)	2 nd MH E of Main St (Asset No. MH00005996) to MH at Jones St (Asset No. MH0005997)
Size/Shape	375 mm
Material	Vitrified Clay
Total Length	101.1 m
Sewer Depth to Invert – maximum	6.9 m
Design Condition	
Partially Deteriorated 8%	
Site Specific Repairs	
Location	Required Action
Distance From MH00005996	
10.7	Solid debris removal, encrustation at joint from 7:00 to 5:00
12.4	Solid debris removal, encrustation at joint from 7:00 to 4:00
17.1	Solid debris removal, encrustation at service from 4:00 to 5:00
30.3	Solid debris removal, roots at service from 7:00 to 9:00
40.9	Solid debris removal, roots at joint at 8:00
42.4	Solid debris removal, roots at joint from 8:00 to 9:00
43.2	Solid debris removal, roots at joint from 7:00 to 8:00
44.2	Solid debris removal, roots at service from 4:00 to 9:00
45.6	Solid debris removal, roots at joint from 4:00 to 8:00
46.4	Solid debris removal, roots at joint from 4:00 to 8:00
47.1	Solid debris removal, roots at joint from 5:00 to 9:00

48.0	Solid debris removal, roots at joint from 4:00 to 9:00
50.3	Solid debris removal, encrustation at joint at 8:00
52.6	Solid debris removal, roots at joint from 5:00 to 9:00
52.4	Solid debris removal, roots at joint from 8:00 to 9:00
54.4	Solid debris removal, encrustation at service from 4:00 to 5:00
55.2	Solid debris removal, roots at joint from 7:00 to 8:00
78.2	Solid debris removal, roots at joint from 2:00 to 10:00
78.6	Solid debris removal, roots at joint from 1:00 to 4:00
78.6	Remove intruding service at 2:00
79.2	Solid debris removal, roots at joint from 8:00 to 10:00
79.4	Solid debris removal, roots at joint from 7:00 to 10:00
82.4	Solid debris removal, roots at joint from 7:00 to 9:00
84.1	Solid debris removal, roots at joint at 8:00
84.9	Solid debris removal, roots at joint from 8:00 to 9:00
89.7	Solid debris removal, roots at service from 7:00 to 10:00

Sherbrook St (Asset No. MA20016429)	4 th MH N of Portage Av (Asset No. MH20014788) to 3 rd MH N of Portage Av (Asset No. MH20014783)
Size/Shape	375 mm
Material	Vitrified Clay
Total Length	83.2 m
Sewer Depth to Invert – maximum	3.94 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20014788	
2.4	Remove intruding service at 2:00
11.0	Solid debris removal, broken pipe at 8:00
16.0	Solid debris removal, encrustation at joint at 5:00
56.2	Solid debris removal, encrustation at

62.1	service from 2:00 to 3:00
64.4	Solid debris removal, encrustation at service from 2:00 to 4:00
73.6	Solid debris removal, encrustation at service from 7:00 to 20:00
	Remove intruding service at 10:00

Sherbrook St (Asset No. MA20016828)	MH at Sargent Av (Asset No. MH20015122) to 1 st MH S of Sargent Av (Asset No. MH20015127)
Size/Shape	450 mm
Material	Vitrified Clay
Total Length	40.9 m
Sewer Depth to Invert – maximum	3.72 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20015122	
10.8	Solid debris removal, encrustation at service at 10:00
22.2	Remove intruding service at 2:00
36.3	Remove intruding service at 2:00
38.1	Remove intruding service at 2:00

Sherbrook St (Asset No. MA20019859)	MH at Henry Av (Asset No. MH20017885) to MH at Logan Av (Asset No. MH70028626)
Size/Shape	600 mm
Material	Brick
Total Length	133.9 m
Sewer Depth to Invert – maximum	5.8 m
Design Condition	
Fully Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH20017885	
27.4	Solid debris removal, encrustation at service from 8:00 to 11:00

48.2	Solid debris removal, encrustation at service from 7:00 to 10:00
48.2	Remove intruding service at 10:00
64.5	Solid debris removal, encrustation at service from 3:00 to 5:00
67.7	Solid debris removal, encrustation at service from 3:00 to 9:00
70.0	Solid debris removal, encrustation at service from 7:00 to 9:00
73.1	Remove intruding service at 10:00
75.2	Remove intruding service at 2:00
78.0 – 85.0	Solid debris removal, encrustation on pipe wall from 3:00 to 9:00
85.0 – 87.8	Solid debris removal, encrustation on pipe wall from 2:00 to 10:00
87.8	Remove intruding service at 12:00
87.8 – 103.0	Solid debris removal, encrustation on pipe wall from 7:00 to 5:00
126.3	Solid debris removal, encrustation at service from 7:00 to 11:00
130.6	Solid debris removal, encrustation at service from 1:00 to 4:00

Ship St (Asset No. MA70018577)	1st MH S of Bannatyne Av (Asset No. MH20012024) to MH at Bannatyne Av (Asset No. MH7002028267)
Size/Shape	600 mm
Material	Brick
Total Length	36.0 m
Sewer Depth to Invert – maximum	5.41 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20012024	
6.0 – 11.0	Solid debris removal, encrustation on pipe wall from 3:00 to 9:00
15.0 – 17.2	Solid debris removal, encrustation on pipe wall from 3:00 to 9:00
20.3	Solid debris removal, encrustation on pipe wall from 2:00 to 6:00
21.4 – 27.5	Solid debris removal, encrustation on pipe wall from 2:00 to 10:00

Smith St (Asset No. MA20015691)	1st MH N of Ellice Av (Asset No. MH20014379) to MH at Ellice Av (CL) (Asset No. MH20014356)
Size/Shape	300 mm
Material	Concrete
Total Length	90.3 m
Sewer Depth to Invert – maximum	3.15 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20014379	
40.7	Solid debris removal, encrustation at joint from 7:00 to 11:00
60.0	Solid debris removal, encrustation at joint from 1:00 to 4:00
62.5	Solid debris removal, encrustation at joint from 1:00 to 4:00
63.5	Solid debris removal, encrustation on pipe wall from 1:00 to 3:00
63.8	Remove intruding service at 2:00
81.3	Solid debris removal, encrustation at service from 1:00 to 4:00

Spence St (Asset No. MA20014781)	1st MH S of Portage Av (Asset No. MH20013337) to 2nd MH S of Portage Av (Asset No. MH20013345)
Size/Shape	300 mm
Material	Concrete
Total Length	45.1 m
Sewer Depth to Invert – maximum	3.23 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH20013337	
42.8	Remove intruding service at 10:00

Spence St (Asset No. MA20017041)	1st MH S of Notre Dame Av (Asset No. MH20016526) to MH at Cumberland Av (Asset No. MH20015239)
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Size/Shape	300 mm
Material	Concrete
Total Length	78.8 m
Sewer Depth to Invert – maximum	3.4 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20016526	
21.5	Solid debris removal, encrustation at service from 2:00 to 5:00
30.4	Solid debris removal, encrustation at service from 7:00 to 10:00
31.5	Solid debris removal, broken pipe at 10:00
48.5	Remove intruding service at 10:00

Spence St (Asset No. MA20016959)	MH at Cumberland Av (Asset No. MH20015239) to 1st MH S of Cumberland Av (Asset No. MH20015246)
Size/Shape	300 mm
Material	Concrete
Total Length	40.3 m
Sewer Depth to Invert – maximum	3.46 m
Design Condition	
Partially Deteriorated 8%	
Site Specific Repairs	
Location	Required Action
Distance From MH20015239	
11.3	Solid debris removal, encrustation at service at 8:00
22.4	Solid debris removal, encrustation at service from 7:00 to 8:00
33.7	Solid debris removal, encrustation at service from 7:00 to 8:00

Talbot Av (Asset No. MA40007067)	MH at Riverton Av (Asset No. MH40006447) to 1st MH S of Riverton Av (Asset No. MH40006437)
Size/Shape	300 mm
Material	Vitrified Clay

Total Length	101.9 m
Sewer Depth to Invert – maximum	4.75 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH40006447	
100.7 – 101.3	External Point Repair (To Be Done By Others)

Thames Av (Asset No. MA40008053)	1st MH E of Watt St (Asset No. MH40007396) to MH at Watt St (Asset No. MH225-0033)
Size/Shape	250/300 mm
Material	Vitrified Clay
Total Length	33.0 m
Sewer Depth to Invert – maximum	3.94 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action
Distance From MH40007396	
2.3	Remove intruding service at 10:00
4.1	Remove intruding service at 2:00
7.3	Dimension Change to 250 mm
20.5	Dimension Change to 300 mm
26.9	Solid debris removal, encrustation at joint from 8:00 to 5:00
28.9	Solid debris removal, rebar at joint at 5:00
29.6	Solid debris removal, encrustation at service at 10:00
33.0	Obstruction

Trent Av (Asset No. MA40005468)	MH at Henderson Av (Asset No. MH40004962) to 1st MH E of Henderson Av (Asset No. MH40004979)
Size/Shape	300 mm

Material	Vitrified Clay
Total Length	97.5 m
Sewer Depth to Invert – maximum	3.3 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40004962	
4.0	Solid debris removal, encrustation at joint from 6:00 to 7:00
7.1	Solid debris removal, encrustation at joint at 8:00
73.1	Remove intruding service at 10:00
95.7	Solid debris removal, encrustation at joint from 3:00 to 4:00

Trent Av (Asset No. MA40004951)	2nd MH E of Watt St (Asset No. MH40004507) to 1st MH W of Watt St (Asset No. MH40004492)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	96.7 m
Sewer Depth to Invert – maximum	2.36 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40004507	
5.2	Solid debris removal, encrustation at joint from 1:00 to 8:00
8.2	Solid debris removal, encrustation at joint from 3:00 to 5:00
9.8	Solid debris removal, encrustation at joint from 4:00 to 8:00
11.4	Solid debris removal, encrustation at joint from 4:00 to 6:00
15.2	Solid debris removal, encrustation at joint from 4:00 to 8:00
16.0	Solid debris removal, encrustation at joint from 4:00 to 5:00
16.8	Solid debris removal, encrustation at joint at 4:00
40.9	Remove intruding service at 2:00
46.0	Solid debris removal, encrustation at joint at 5:00

67.5	Remove intruding service at 2:00
76.5	Remove intruding service at 2:00
94.1	Solid debris removal, encrustation at joint at 7:00

Wabasha St (Asset No. MA40014000)	MH at Whittier Av (Asset No. MH40012636) to MH at Kildare Av (Asset No. MH70031972)
Size/Shape	200 mm
Material	Vitrified Clay
Total Length	102.7 m
Sewer Depth to Invert – maximum	5.07 m
Design Condition	
Partially Deteriorated 8%	
Site Specific Repairs	
Location	Required Action
Distance From MH40012636	
59.8	Solid debris removal, encrustation at joint from 12:00 to 3:00
60.8	Solid debris removal, encrustation at joint from 6:00 to 10:00
67.2	Solid debris removal, encrustation at joint from 1:00 to 4:00
73.7	Solid debris removal, encrustation at joint from 9:00 to 12:00
92.5 – 95.8	Solid debris removal, encrustation on pipe wall from 9:00 to 3:00

Watt St (Asset No. MA40011009)	3rd MH S of Nairn Av (Asset No. MH40009950) to MH at Nairn Av (Asset No. MH40009930)
Size/Shape	300 mm
Material	PVC – Vitrified Clay
Total Length	91.2 m
Sewer Depth to Invert – maximum	3.84 m
Design Condition	
Partially Deteriorated 3%	
Site Specific Repairs	
Location	Required Action
Distance From MH00012570	
0-53.0	PVC

53.0	Material change PVC to VC
80.5	Solid debris removal, encrustation at service at 3:00

Westminster Av (Asset No. MA20014472)	MH at Sherbrook St (EPL) (Asset No. MH20013064) to MH at Furby St (Asset No. MH20013081)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	85.4 m
Sewer Depth to Invert – maximum	3.4 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20013064	
32.9	Remove intruding service at 10:00
32.9 – 34.5	Solid debris removal, encrustation on pipe wall at 8:00
34.6	Solid debris removal, encrustation at service at 9:00
55.1	Solid debris removal, encrustation at joint at 4:00
56.0	Solid debris removal, encrustation at joint at 4:00
56.6	Solid debris removal, encrustation at joint from 3:00 to 8:00

Wharton Blvd (Asset No. MA20000747)	1 st MH S of Ness Av (Asset No. MH20000677) to Tie In (Asset No. TE20000123)
Size/Shape	300 mm
Material	Concrete
Total Length	68.7 m
Sewer Depth to Invert – maximum	2.38 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20000677	

28.7	Solid debris removal, encrustation at joint from 3:00 to 9:00
31.1	Solid debris removal, encrustation at joint from 3:00 to 9:00
32.5	Solid debris removal, encrustation at joint from 1:00 to 11:00
35.0	Solid debris removal, encrustation at joint from 3:00 to 10:00
38.1	Solid debris removal, encrustation at joint from 3:00 to 7:00
40.3	Solid debris removal, encrustation at joint from 10:00 to 3:00
43.5	Solid debris removal, encrustation at joint from 2:00 to 5:00
68.7	Remove wires at pipe interface

William Stephenson Wy (CL) (aka Water Av) (Asset No. MA20016187)	1st MH E of Main St (Asset No. MH20014568) to MH at Main St (CL) (Asset No. MH20014558)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	83.0 m
Sewer Depth to Invert – maximum	5.61 m
Design Condition	
Fully Deteriorated 10%	Observation – service at 23.8 – heavy flow
Site Specific Repairs	
Location	Required Action
Distance From MH20014568	
1.3	Solid debris removal, encrustation on pipe wall at 6:00
7.9	Solid debris removal, encrustation at service at 3:00
8.4	Solid debris removal, encrustation at joint at 4:00
10.8	Solid debris removal, encrustation at joint from 7:00 to 10:00
20.7	Solid debris removal, encrustation at joint from 8:00 to 2:00
29.3	Solid debris removal, encrustation at service from 3:00 to 4:00
44.6	Solid debris removal, encrustation at service at 4:00
49.9	Solid debris removal, encrustation at joint from 8:00 to 4:00
52.3	Solid debris removal, encrustation at joint at 8:00
52.9	Solid debris removal, encrustation at joint at 3:00

53.7	Solid debris removal, encrustation at joint from 12:00 to 4:00
56.0	Solid debris removal, encrustation at joint from 8:00 to 4:00
61.2	Solid debris removal, encrustation at joint from 12:00 to 3:00
77.9	Solid debris removal, encrustation at joint from 9:00 to 12:00
82.2	Solid debris removal, encrustation at joint from 12:00 to 4:00

Winona St (Asset No. MA40013702)	MH at Kildare Av (Asset No. MH40012410) to MH at Whittier Av (Asset No. MH40012409)
Size/Shape	200 mm
Material	Vitrified Clay
Total Length	97.4 m
Sewer Depth to Invert – maximum	5.9 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH40012410	
46.0 – 47.0	External Point Repair (To Be Done By Others)
81.6	Solid debris removal, encrustation at service at 1:00
91.3	Solid debris removal, encrustation on pipe wall from 6:00 to 12:00

Whiteway Rd (Asset No. MA40012709)	1 st E of Sanford Fleming Rd (Asset No. MH40011495) to MH at Cambie Rd (Asset No. MH400011510)
Size/Shape	250 mm
Material	Concrete
Total Length	113.8 m
Sewer Depth to Invert – maximum	4.18 m
Design Condition	
Partially Deteriorated 5%	
Site Specific Repairs	
Location	Required Action

Distance From MH40011495	
2.4	Solid debris removal, roots at joint at 4:00
20.8	Solid debris removal, encrustation at roots at 7:00

Wolseley Av (Asset No. MA70013358)	MH at Sherbrook St (EPL) (Asset No. MH20012383) to MH at Furby St (Asset No. MH70011694)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	87.1 m
Sewer Depth to Invert – maximum	3.18 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH20012383	
13.2	Solid debris removal, encrustation at service from 4:00 to 5:00
33.1	Solid debris removal, encrustation at service from 3:00 to 5:00
35.3	Solid debris removal, gasket at joint at 3:00
39.3	Solid debris removal, gasket at joint from 10:00 to 2:00
40.1	Solid debris removal, encrustation at joint at 4:00

Young St (CL) (Asset No. MA70062363)	1st MH S of Cumberland Av (Asset No. MH70028370) to (Asset No. MH20016541)
Size/Shape	300 mm
Material	Vitrified Clay
Total Length	54.4 m
Sewer Depth to Invert – maximum	3.1 m
Design Condition	
Fully Deteriorated 10%	
Site Specific Repairs	
Location	Required Action
Distance From MH70028370	

14.4	Solid debris removal, encrustation at joint at 5:00
50.3	Remove intruding service at 2:00
52.6	Remove intruding service at 10:00