

**APPENDIX A - TABLE 8.1: SITE SPECIFIC DESIGN CONDITIONS AND REPAIR REQUIREMENTS PRIOR TO PERFORMING SEWER LINING**

<b>Lodge Avenue (Asset No. MA20005521) Combined Sewer</b>	<b>MH at Whytefold Rd (MH20005050) to MH at Vernon Rd (MH20005076)</b>
Drawing Number	12382
Size / Shape	600mm Circular
Material Type	Concrete
Total Length	140.8m
Maximum Sewer Depth to Invert	4.70m
Design Condition	Fully deteriorated ovality 5%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Action Required</b>
Distance From MH20005050 (m)	
5.9	Remove encrustation from pipe joint at 5:00
9.0	Remove encrustation from pipe joint at 7:00
13.5	Remove encrustation from pipe joint at 6:00
23.9	Remove intruding service at 10:00
42.8	Remove encrustation from pipe joint at 9:00
43.5	Remove encrustation from pipe joint from 7:00 to 10:00
45.0	Remove encrustation from pipe joint from 8:00 to 11:00
59.8	Remove roots from pipe joint at 7:00
61.2	Remove roots from pipe joint at 7:00
62.9	Remove roots from connection at 10:00
84.3	Remove roots from pipe joint at 3:00
87.2	Remove root from service at 10:00
100.5	Remove encrustation from pipe wall at 4:00
100.7	Remove encrustation from pipe wall from 7:00 to 10:00
105.0 to 107.3	Remove encrustation from pipe wall at 5:00
114.9 to 117.4	Remove encrustation from pipe wall at 5:00
120.0	Remove encrustation at connection from 2:00 to 5:00
121.0	Remove encrustation at connection from 8:00 to 10:00
121.0 to 122.4	Remove grease from pipe wall from 3:00 to 9:00

<b>Mount Royal Road (Asset No. MA20005123) Combined Sewer</b>	<b>MH at Hearne Ave (MH20004675) to MH at Lodge Ave (MH20004676)</b>
Drawng Number	12383
Size / Shape	600mm Circular
Material Type	Concrete
Total Length	80.6m
Maximum Sewer Depth to Invert	5.55m
Design Condition	Fully deteriorated ovality 5%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Action Required</b>
Distance From MH200004675 (m)	
3.5	Remove encrustation from pipe wall from 7:00 to 10:00
9.9	Remove encrustation from pipe wall at 6:00
13.3	Remove encrustation from pipe wall at 7:00
21.0	Remove encrustation from pipe joint from 12:00 to 2:00
21.8	Remove encrustation from pipe joint at 5:00
22.6	Remove encrustation from pipe joint at 1:00
36.9	Remove encrustation from pipe joint from 5:00 to 7:00
42.5	Remove encrustation from pipe wall at 5:00
43.1	Remove encrustation from pipe joint from 12:00 to 1:00
43.9	Remove encrustation from pipe joint at 5:00
48.5	Remove encrustation from pipe joint from 5:00 to 6:00
51.1	Remove encrustation from pipe wall at 4:00
51.6	Remove encrustation from pipe joint at 5:00
52.6	Remove encrustation from pipe joint at 4:00
75.8	Remove encrustation from pipe joint from 7:00 to 11:00
75.8 to 76.7	Remove encrustation from pipe wall from 7:00 to 11:00

<b>Ellice Avenue (Asset No. MA70022967)</b>	<b>1st MH E of Victor St (MH70008168) to MH at Agnes St (MH20014723)</b>
<b>Combined Sewer</b>	
Drawng Number	12384
Size / Shape	750mm Circular
Material Type	Brick
Total Length	33.3m
Maximum Sewer Depth to Invert	4.3m
Design Condition	Fully deteriorated ovality 5%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Action Required</b>
Distance From MH70008168 (m)	
0.0 to 4.1	Remove encrustation from pipe wall from 2:00 to 4:00
2.7 to 4.1	Remove encrustation from pipe wall from 8:00 to 10:00
6.1	Grout around connection at 9:00
6.3 to 10.3	Remove encrustation from pipe wall from 2:00 to 4:00
6.5 to 10.3	Remove encrustation from pipe wall from 9:00 to 10:00
11.3 to 15.5	Remove encrustation from pipe wall from 7:00 to 11:00
11.3 to 11.7	Remove encrustation from pipe wall from 1:00 to 3:00
17.2 to 18.0	Remove encrustation from pipe wall from 1:00 to 3:00
17.4 to 18.3	Remove encrustation from pipe wall from 9:00 to 11:00
24.2	Remove encrustation from pipe wall from 7:00 to 10:00
27.0	Remove encrustation from pipe wall from 7:00 to 10:00

<b>Emily Street (Asset No. MA20018301)</b>	<b>2nd MH N of Notre Dame Ave (MH20016377) to 3rd MH N of Notre Dame Ave (MH20016378)</b>
<b>Combined Sewer</b>	
Drawng Number	12385
Size / Shape	600mm Circular
Material Type	Concrete
Total Length	41.8m
Maximum Sewer Depth to Invert	4.89m
Design Condition	Fully deteriorated ovality 3%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Action Required</b>
Distance From MH20016377 (m)	
3.1	Remove encrustation from pipe wall from 2:00 to 5:00
24.2	Remove encrustation from pipe wall at 3:00
31.4	Remove encrustation from pipe joint from 7:00 to 10:00
38.3	Remove encrustation from pipe wall from 9:00 to 11:00

<b>McDermot Avenue (Asset No. MA70013779) Combined Sewer</b>	<b>1st MH E of Tecumseh St (MH20016245) to MH at Emily St (MH20016379)</b>
Drawng Number	12386
Size / Shape	600mm Circular
Material Type	Vitrified Clay / PVC
Total Length	125.2m
Maximum Sewer Depth to Invert	4.77m
Design Condition	Fully Deteriorated ovality 10%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Action Required</b>
Distance From MH20016245 (m)	
1.3	Remove intruding service at 11:00
1.3	Remove encrustation from pipe wall from 2:00 to 5:00
4.5	Remove encrustation from pipe joint at 4:00
8.1	Remove encrustation from pipe wall from 3:00 to 9:00
14.9	Remove intruding connection at 10:00
41.6	Remove debris from pipe joint at 6:00
68.9	Remove debris from pipe joint at 6:00
74.9	Remove encrustation from pipe wall at 2:00
78.6	Remove intruding connection at 10:00
83.9	Remove encrustation from pipe wall at 2:00
84.7	Remove encrustation from pipe wall from 2:00 to 5:00
94.4	Remove encrustation from pipe wall from 2:00 to 5:00
113.00	Remove encrustation from pipe wall from 2:00 to 5:00
113.0	Remove encrustation from pipe wall from 10:00 to 7:00

<b>William Avenue (Asset No. MA20018338) Combined Sewer</b>	<b>4th MH E of Tecumseh St (MH20016445) to 3rd MH E of Tecumseh St (MH20016414)</b>
Drawng Number	12387
Size / Shape	600mm
Material Type	Brick
Total Length	22.5m
Maximum Sewer Depth to Invert	4.43m
Design Condition	Fully deteriorated ovality 5%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Action Required</b>
Distance From MH20016445 (m)	
6.4	Remove encrustation from service at 1:00
10.3	Remove encrustation from service at 11:00
16.0	Remove intruding service at 2:00
16.4	Remove intruding service at 2:00
20.0	Fill void with grout from 4:00 to 7:00

<b>Logan Avenue (Asset No. MA20019853) Combined Sewer</b>	<b>MH at Chambers St (MH20017838) to MH at Sherbrook St (MH70028626)</b>
Drawng Number	12388
Size / Shape	1200x800mm Egg
Material Type	Brick
Total Length	79.9m
Maximum Sewer Depth to Invert	5.18m
Design Condition	Fully Deteriorated
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Action Required</b>
Distance From MH20019853 (m)	
23.9	Remove intruding service at 10:00
23.9	Remove encrustation from pipe wall from 7:00 to 10:00
23.9	Grout around services at 10:00
33.0	Remove intruding services at 10:00 and 11:00
33.0	Grout around connection at 10:00
33.0	Grout around connection at 11:00
33.0	Remove encrustation from pipe wall from 10:00 to 6:00
39.9	Remove intruding service at 10:00
39.9	Remove encrustation from pipe wall from 7:00 to 10:00
40.8	Remove encrustation from pipe wall from 9:00 to 10:00
45.0	Remove encrustation from pipe wall from 2:00 to 5:00
48.7	Remove encrustation from pipe wall from 7:00 to 10:00
48.8	Grout around connection at 10:00
55.8	Remove encrustation from pipe wall from 2:00 to 7:00
56.0	Remove encrustation from pipe wall from 7:00 to 10:00
63.4	Remove encrustation from pipe wall from 7:00 to 10:00
63.4	Remove encrustation from pipe wall from 2:00 to 5:00
73.9	600mm connection (information only)
76.4	Grout pipe wall at 5:00
77.1 to 77.3	Remove encrustation from pipe wall at 6:00

<b>Sutherland Avenue (Asset No. MA70001100) Combined Sewer</b>	<b>1st MH W of Higgins Ave (MH00014105) to 1st MH E of Higgins Ave (MH70000474)</b>
Drawng Number	12389
Size / Shape	900mm Circular
Material Type	Concrete
Total Length	101.6
Maximum Sewer Depth to Invert	2.66m
Design Condition	Unknown
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Action Required</b>
Distance From MH00014105 (m)	
	Sewer in available televising video is 50% full. Pre-lining video under controlled flow conditions to be completed to determine sewer condition and preparation requirements.

<b>Point Douglas Avenue (Asset No. MA00018315) Combined Sewer</b>	<b>MH at Grace St (MH00014104) to MH at Sutherland Ave (MH70000474)</b>
Drawng Number	12390
Size / Shape	900mm Circular
Material Type	Concrete / brick
Total Length	77.1m
Maximum Sewer Depth to Invert	2.66m
Design Condition	Fully deteriorated ovality 5%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Action Required</b>
Distance From MH00014104 (m)	
4.0 to 6.4	Remove roots from pipe wall at 7:00
8.7 to 10.5	Remove encrustation from pipe wall at 6:00
9.2	Remove roots from pipe wall at 10:00
11.7 to 16.1	Remove encrustation from pipe wall from 5:00 to 7:00
17.3 to 18.5	Remove encrustation from pipe wall from 5:00 to 7:00
20.6	Remove roots from pipe wall at 11:00
36.5 to 37.1	Remove encrustation from pipe wall from 7:00 to 11:00
43.3 to 45.3	Remove roots from pipe wall from 7:00 to 9:00
47.7 to 48.1	Remove roots from pipe wall at 7:00
49.2 to 50.3	Remove roots from pipe wall from 7:00 to 9:00
71.2 to 75.0	Remove encrustation from pipe wall from 7:00 to 9:00

<b>Point Douglas Avenue (Asset No. MA20013602) Combined Sewer</b>	<b>MH at Grace St (MH00014104) to 1st MH E of Grace St (MH20012320)</b>
Drawng Number	12391
Size / Shape	900mm Circular
Material Type	Concrete
Total Length	130.2m
Maximum Sewer Depth to Invert	2.0m
Design Condition	Fully deteriorated ovality 4%
<b>Site Specific Repairs</b>	
<b>Location</b>	<b>Action Required</b>
Distance From MH00014104 (m)	
26.1 to 27.4	Remove encrustation from pipe wall from 5:00 to 7:00
43.4	Remove encrustation from pipe joint at 6:00
79.3 to 80.7	Remove encrustation from pipe joint at 6:00
87.4 to 88.1	Remove encrustation from pipe joint at 6:00
94.9 to 95.6	Remove encrustation from pipe joint at 6:00