

APPENDIX A - TABLE E11.1: SITE SPECIFIC DESIGN CONDITIONS AND REPAIR REQUIREMENTS PRIOR TO PERFORMING SEWER LINING

Canora Street (Asset No. MA20015437)	MH at Portage Avenue (MH20013920) to MH at Picardy Place (MH20013921)
Combined Sewer	
Drawng Number	13043
Size / Shape	1200mm x 1550mm egg
Material Type	Concrete
Total Length	96.2m
Maximum Sewer Depth to Invert	6.84m
Design Condition	Fully Deteriorated
Site Specific Repairs	
Location	Action Required
Distance From MH20013920 (m)	
0.0 to 0.3	Remove encrustation from pipe wall at 7:00
4	Remove encrusation below connection from 7:00 to 11:00
4.0 to 5.1	Remove encrustation from pipe wall at 5:00
27.4	Remove encrustation below connection from 2:00 to 6:00
36.6	Sewer Service Grouting prior to lining
36.6	Remove encrustation below connection from 7:00 to 10:00
47.6	Remove encrustation below connection from 7:00 to 10:00
48.3	Remove encrustation below connection from 3:00 to 5:00
48.5	Remove encrustation below connection from 7:00 to 10:00
78.7	Remove encrustation below connection from 7:00 to 10:00
90.4 to 92.0	Concrete Patching at 5:00

Walnut Street (Asset No. MA20015377)	MH at Preston Avenue (MH20013884) to MH at Purcell Avenue (MH20013863)
Combined Sewer	
Drawng Number	13044
Size / Shape	1200mm x 1550mm egg
Material Type	Concrete
Total Length	127.8m
Maximum Sewer Depth to Invert	7.4m
Design Condition	Fully Deteriorated
Site Specific Repairs	
Location	Action Required
Distance From MH20013884 (m)	
1	Note : bend in Main
4.2	Remove encrustation below connection from 7:00 to 10:00
9.4	Remove encrustation below connection from 7:00 to 10:00
27.3	Sewer Service Grouting prior to lining
57.8	Remove encrustation below connection from 2:00 to 5:00
65.8	Remove intruding service at 10:00
88	Sewer Service Grouting prior to lining at 2:00
88	Fill small void internally at 2:00
120.0 to 121.7	Remove roots from pipe wall from 10:00 to 12:00

Maryland Street (Asset No. MA20013620)	MH at Woodrow Place (MH20012339) to MH at Cornish Avenue (MH20012340)
Combined Sewer	
Drawng Number	13045
Size / Shape	1500mm Circular
Material Type	Concrete
Total Length	62.6m
Maximum Sewer Depth to Invert	8.34m
Design Condition	Fully Deteriorated ovality 5%
Site Specific Repairs	
Location	Action Required
Distance From MH20012340 (m)	
7.7 to 8.0	Concrete Patching at 5:00
10.8	Remove encrustation below connection from 7:00 to 10:00
23.4	Remove encrustation from connection at 12:00
23.9	Remove encrustation below connection from 1:00 to 5:00
50.4	Remove intruding service at 2:00
51.4	Remove intruding service at 2:00
53.9	Remove encrustation from pipe wall at 5:00

Cornish Avenue (Asset No. MA20013653)	MH at Sherbrook Street (MH20012366) to MH at Middle Gate (MH20012418)
Combined Sewer	
Drawng Number	13046
Size / Shape	1500mm Circular
Material Type	Concrete
Total Length	104.8m
Maximum Sewer Depth to Invert	8.5m
Design Condition	Fully Deteriorated ovality 5%
Site Specific Repairs	
Location	Action Required
Distance From MH20012366 (m)	
13.5	Remove encrustation below connection from 2:00 to 6:00
18.4	Remove encrustation below connection from 1:00 to 3:00
20.9 to 21.8	Concrete Patching at 7:00
25.5	Remove encrustation below connection at 2:00
25.5	Remove intruding service at 2:00
35	Remove encrustation below connection from 9:00 to 10:00
36.5	Remove intruding service at 10:00
45.0 to 45.3	Concrete Patching at 3:00
48.5	Remove encrustation below connection from 9:00 to 11:00
48.5	Remove encrustation below connection from 1:00 to 5:00
56	Remove encrustation below connection from 7:00 to 11:00
74.5	Remove encrustation below connection from 1:00 to 5:00
74.5	Remove encrustation below connection from 7:00 to 11:00
90.5	Remove encrustation below connection at 1:00

Cornish Avenue (Asset No. MA20013706)	MH at Middle Gate (MH20012418) to MH at East Gate (MH20012417)
Combined Sewer	
Drawng Number	13047
Size / Shape	1500mm Circular
Material Type	Concrete
Total Length	110.2
Maximum Sewer Depth to Invert	8.15m
Design Condition	Fully Deteriorated ovality 9%
Site Specific Repairs	
Location	Action Required
Distance From MH20012418 (m)	
0.4 to 0.8	Concrete Patching at 5:00 below connection
10.1	Remove encrustation from pipe wall at 5:00
16.0 to 29.9	Remove roots from pipe wall from 8:00 to 4:00
33.1	Remove encrustation below connection at 10:00
37.0 to 51.0	Remove roots from pipe wall from 7:00 to 5:00
57.8	Remove encrustation below connection from 7:00 to 11:00

St. Marys Road (Asset No. MA50004096)	MH at Coniston Street (MH50003543) to 1st MH S of Coniston Street (MH50003560)
Combined Sewer	
Drawng Number	13048
Size / Shape	1000mm x 1500mm egg
Material Type	Concrete
Total Length	76.6m
Maximum Sewer Depth to Invert	8.22m
Design Condition	Fully Deteriorated
Site Specific Repairs	
Location	Action Required
Distance From MH50003543 (m)	
4.2	Remove encrustation from pipe wall at 7:00
3.6 to 4.7	Concrete Patching at 9:00
3.7 to 4.2	Concrete Patching at 4:00
6	Remove encrustation below connection from 7:00 to 11:00
13.7	Remove encrustation below connection from 2:00 to 5:00
16.5	Remove encrustation below connection from 7:00 to 11:00
19.5 to 20.0	Remove encrustation from pipe wall at 7:00
27.5	Remove encrustation from connection at 1:00
27.5	Remove intruding service at 1:00
35	Remove encrustation below connection from 9:00 to 11:00
44.5	Remove intruding service at 1:00
45.1	Remove encrustation below connection from 8:00 to 11:00
55.1	Remove encrustation below connection from 8:00 to 11:00
65.1	Remove encrustation below connection from 8:00 to 11:00
73.8 to 74.4	Concrete Patching below service from 9:00 to 10:00

St. Marys Road (Asset No. MA50004097)	1st MH S of Coniston Street (MH50003560) to 2nd MH S of Coniston Street (MH50003561)
Combined Sewer	
Drawng Number	13049
Size / Shape	1000mm x 1500mm egg
Material Type	Concrete
Total Length	77.5m
Maximum Sewer Depth to Invert	8.26m
Design Condition	Fully Deteriorated
Site Specific Repairs	
Location	Action Required
Distance From MH50003560 (m)	
2.1 to 3.7	Concrete Patching from 7:00 to 10:00
18.6	Remove encrustation below connection from 7:00 to 10:00
37.1	Remove encrustation below connection from 2:00 to 6:00
43.3	Remove encrustation below connection from 2:00 to 5:00
49	Remove encrustation below connection from 7:00 to 11:00
58.9	Remove encrustation below connection from 9:00 to 11:00
58.9	Remove encrustation below connection from 1:00 to 4:00
68.8	Remove unkonwn material at 7:00
68.8	Remove encrustation below connection from 7:00 to 11:00
73.7	Remove encrustation below connection from 2:00 to 3:00

Lyndale Drive (Asset No. MA50004084)	MH at Lloyd Street (MH50003548) to Connection at St Marys Road
Combined Sewer	
Drawng Number	13050
Size / Shape	900mm x 1350mm egg
Material Type	Concrete
Total Length	101.7m
Maximum Sewer Depth to Invert	8.37m
Design Condition	Fully Deteriorated
Site Specific Repairs	
Location	Action Required
Distance From MH50003548 (m)	
1.3	Remove encrustation from pipe wall at 5:00
11.7	Remove encrustation below connection from 1:00 to 6:00
29.8	Remove encrustation below connection from 6:00 to 11:00
42.3	Remove encrustation from pipe wall at 9:00
42.8	Remove intruding service at 11:00
57.8	Remove intruding service at 11:00
57.0 to 57.8	Remove encrustation from pipe wall at 7:00
60.6 to 62.7	Remove encrustation from pipe wall from 5:00 to 10:00
61.5	Remove encrustation from connection at 12:00
67.6 to 68.7	Remove encrustation from pipe wall at 5:00
79.3	Remove encrusation below connection from 1:00 to 5:00
80.8	Remove encrusation below connection from 8:00 to 11:00
87	Remove encrusation below connection from 2:00 to 3:00
93	Note : bend in Main
94.0 to 95.0	Remove encrustation from pipe wall at 5:00
96.0 to 97.0	Remove encrustation from pipe wall from 5:00 to 7:00
100.5 to 101.1	Concrete Patching at 3:00

St. Marys Road (Asset No. MA50004085)	MH at Lyndale Drive (MH50003549) to MH at Champlain Street (MH50003550)
Combined Sewer	
Drawng Number	13051
Size / Shape	1500mm x 1000mm egg
Material Type	Concrete
Total Length	95.9m
Maximum Sewer Depth to Invert	8.37
Design Condition	Fully Deteriorated
Site Specific Repairs	
Location	Action Required
Distance From MH50003549 (m)	
15.8	Remove encrustation below connection from 6:00 to 10:00
26.9	Remove encrustation below connection from 6:00 to 10:00
31.9	Remove encrustation below connection from 1:00 to 5:00
42.7	Remove encrustation from connection at 12:00
46	Remove encrustation from connection at 12:00
61.5	Remove encrustation below connection from 1:00 to 5:00
78	Remove encrustation from pipe wall from 7:00 to 11:00
86	Remove encrustation below connection from 6:00 to 11:00