Appendix A - Table E.2.3.6 - Repair Requirements

Sewer Details															Pre-Lining Inspection																			
DWG	Sewer Asset	Street Name	Location	Manholes				Length	Size		Shape	Flow Type	Material	Sewer Services	Lump Sum Anulus Grouting per Location		Patching			Removal of Intruding Connections		Removal Roots and Grease		Solid Debris Cutting / Other			Sewer Service Grouting - Man Entry for Sewers >750mm		External Point Repair (EPR) by Others	
				Upstream	Depth	Downstream	Depth		Height	Width					Anulus Grouting	Description	Patch Tender <=1m	Patch Tender >=1m	Description	Intrud Conn Tender	Description	Root Tender	Description	Tender 1st 1m	Tender >1m (m)	Tender at Joints	Service Grouting	Description	Distance	Description
11073	S-MA6022780	DUCHARE AV	3RD MH E HOUDE DR WLEG - MH @ HOUDE DR ELEG	MH60019113	3.72	MH60019114	4.11	91.1	250		Circ	SANITARY	CO-CONCRETE	11						2	24.5 CNI @ 10 DS; 34.6 CNI @ 10 DS		4.5 RMJ @ 9-1 DS	1	25.2	11		0-4.8 EL @ 1, 9 DS; 9.5 EL @ 3 DS; 10.4 EL1 @ 7-1 DS; 16.7 EL1 @ 7-11 DS; 17.8 EL1 @ 12-5 DS; 19.0 EL1 @ 8-12 DS; 24.4 EL @ 9 DS; 27.6-34.6 EL @ 3, 9 DS; 35.0 EL1 @ 8-10 DS; 36-40.4 EL @ 1 DS; 37.5 EL1 @ 1-4 DS; 38.7 EL1 @ 8-11 DS; 42.5 EL @ 3 DS; 45.2-49.8 EL/EM @ 1-12 (sporadically) DS; 51.0 EL1 @ 3 DS; 54.6-58.0 EL @ 1-12 (sporadically) DS; 62.0 EL1 @ 2-3 DS; 72.1 EL @ 3-4 DS; 81.6 EM1 @ 8-10 DS; 85.3 EM1 @ 9-12 DS;			
11074	S-MA60015772	PEMBINA HWY (WOFCL)	2ND MH S OF BISON DR - 3RD MH S OF BISON DR	MH60013489	2.06	MH60013489	2.06	97.3	300		Circ	SANITARY	CO-CONCRETE	2										1		11		6.3 OB (Gasket) @12-12 DS; 29.3 OB (Gasket) @9-10 DS; 38.4 EL1 & OB (Gasket) @ 3-6 DS; 40.3 EL1 @ 7-10 DS; 42.1 OB (Gasket) @9-12 DS; 47.6 OB (Gasket) @9-3 DS; 63.2 EL @ 2-5 DS; 69.8 OB (Gasket) @11-1 DS; 82.9 OB (Gasket) @11-1 DS; 84.7 OB (Gasket) @9-1 DS; 94.0 OB (Gasket) @1-4 DS; 95.8 OB (Gasket) @11-1 DS;			
11075	S-MA60021342	PEMBINA HY	3RD MH N ADAMAR RD - 4TH MH N ADAMAR RD	MH60015578	4.39	MH60014381	4.69	88.1	250		Circ	SANITARY	CO-CONCRETE	5						4	37.5 CNI @ 10 DS; 63.0 CNI @ 10 DS; 64.7 CNI @ 10 DS; 80.2 CNI @ 10 DS			1	36.6	1		0-4 EL @ 7-9 DS; 9.4 EL @ 7-10 DS; 14.4 EL @ 10 DS; 33.8-35.6 EL @ 4 DS; 36.2-63.2 EL/EM @ 1-4, 8-11 DS; 64.6 EL @ 9-10 DS; 77.8 EL1 @ 8-3 DS; 79.7 EL @ 1-5 DS; 80.2 EL @ 1-4 DS; 81.7-85.5 EL @ 2, 10 DS			
11076	S-MA60004295	PARK BV N	2ND MH S OF WELLINGTON CR TO MH AT NANTON BV	MH60003104	3.74	MH60003106	4.73	106.3	300		Circ	SANITARY	VC-VITRIFIED CLAY	2		1		0.0 @ MH AROUND PIPE INLET						2	3.8						17.0-19.2 EL @ 7-10 DS; 22.9 EL @ 3-4 DS; 81.6-83.0 EL @ 2, 10 DS; 106.4 EL @ 2-4 DS;		3.2	EPR 25.7 - 28.9m DS
11077	S-MA60023430	CENTENNIAL ST	3RD MH N OF GROSVENOR AVE - NODE @ KINGSWAY A	MH60006387	5.65	TE70019282	-	102.0	450		Circ	COMBINED	VC-VITRIFIED CLAY	14						3	44.2 CNI @ 2 DS; 47.1 CNI @ 10 DS; 84.2 CNI @ 2 DS	1.0		1				74.2 remove debris @ 6 DS; 90.9 EL @ 8 DS; 91.4 remove debris @ 2, 8 DS		2.3	EPR 9.0 - 11.3m DS
11078	S-MA60008105	BOREBANK ST (CL)	3RD MH N OF GROSVENOR AV TO MH AT KINGSWAY (C	MH60006626	3.92	MH60006632	4.56	101.3	375		Circ	COMBINED	VC-VITRIFIED CLAY	17								1.0	0-17.2 RFJ/RM @ 1-12 DS; 37.6-41.8 RF/RM @ 1-5, 7-10 DS; 45.3 RFJ @ 8 DS; 51.3 RFJ @ 3 DS; 53.0 RMJ @ 7-8 DS; 75.3 RFJ @ 4-5 DS; 79.0-83.0 RFJ @ 3, 7-9 DS; 0-4.6 RFJ/RMJ @ 1-5, 7-10 DS; 45.8 RFJ @ 8 DS; 53.0 RM @ 3-4, 9-11 DS; 64.4-70.8 RFJ/RMJ @ 1-5, 7-9 DS; 86.4-93.6 RFJ/RMJ @ 1-5, 7-9 DS	1									
11079	S-MA60012936	PEMBINA HWY	2ND MH S OF WINDERMERE AV TO MH AT SOMERSET A	MH60011079	4.69	MH60011096	4.67	91.7	300		Circ	SANITARY	CO-CONCRETE	5		1		0.0 @ MH AROUND PIPE INLET		4	16.9 CNI @ 2 DS; 31.4 CNI @ 2 DS; 42.9 CNI @ 10 DS; 80.8 CNI @ 2 DS			1	4.2	8		0-7.2 remove debris @ 4-8 DS; 12.7 EM/ @ 2-6 DS; 23.4 EL1 @ 7-5 DS; 38.0 EL1 @ 2-5 DS; 38.9 EL1 @ 8-2 DS; 55.8-57.4 EL1 @ 1-5 DS; 61.2 EM1 @ 9-10 DS; 74.3 EL1 @ 3, 10 DS			
11080	S-MA70018146	WATERLOO ST	4TH MH N OF CORYDON AV TO MH AT GROSVENOR AV	MH60006939	6.23	MH60006928	7.48	92.2	600		Circ	COMBINED	CO-CONCRETE	14								1.0	5.0-13.8 RFJ/RMJ @ 3-5, 7-11 DS; 21.6-27.8 RFJ @ 4-5, 7-8 DS; 81.3 RFJ @ 7-8 DS				2	9.9 OB (Gasket) @10-2 DS; 79.6 EL1 @ 7 DS			
11081	S-MA60009447	SCOTLAND AV	MH AT STAFFORD ST (CL) TO 1ST MH W OF WENTWORT	MH60009965	4.10	MH60008132	4.08	86.2	375		Circ	COMBINED	VC-VITRIFIED CLAY	13						4	3.3 CNI @ 2 DS; 8.0 CNI @ 11 DS; 8.7 CNI @ 2 DS; 63.9 CNI @ 2 DS			1	1.0	6		8.7 EL @ 2-5 DS; 16.1 EL @ 3-5 DS; 18.5 EL1 @ 7-11 DS; 23.0 EM1/ @ 1-5 DS; 23.7 EL1 @ 4 DS; 27.1 EL1 @ 4-5 DS; 37.6 EL1/EM1 @ 1-5, 7-8 DS; 43.0 EL1 @ 3-5 DS; 53.9 EL @ 2-4 DS; 85.4 remove debris & broken pipe @ 6.8 DS; (remove debris/dirt throughout pipe)		1.8	EPR 1.8-2.4 DS; 85.1-86.3 DS
11082	S-MA60012122	WALKER ST	2ND MH W OF DALY ST S TO 3RD MH W OF DALY ST S	MH60010396	4.42	MH60010319	5.85	86.3	375		Circ	COMBINED	VC-VITRIFIED CLAY	18						4	17.8 CNI @ 2 DS; 32.8 CNI @ 2 DS; 43.7 CNI @ 10 DS; 54.1 CNI @ 11 DS	1.0	2.0 RFJ @ 1-3 DS; 5.6 RFJ @ 3, 9 DS; 31.2-32.4 RFJ/RMJ @ 2-4, 8-10 DS; 40.0 RF @ 2-4 DS; 55.0 RFJ @ 1-3 DS	1	3.0	3		16.2 remove debris @ 6 DS; 41.6 EL @ 7-9 DS; 54.4 EM @ 7-10 DS; 64.3 EL @ 8-11 DS; 76.1 EL1 @ 7 DS; 76.7 EL1 @ 12-2, 8-10 DS; 77.4 EL1 @ 2-4 DS			
11083	S-MA60012203	WALKER AV	1ST MH W OF DALY ST S TO 2ND MH W OF DALY ST S	MH60010385	4.32	MH60010396	4.42	86.4	375		Circ	COMBINED	VC-VITRIFIED CLAY	14						5	4.6 CNI @ 10 DS; 19.6 CNI @ 2 DS; 33.8 CNI @ 11 DS; 81.4 CNI @ 2 DS; 82.0 CNI @ 10 DS	1.0	15.4-20.2 RFJ/RMJ @ 1-5, 7-11 DS; 23.6 RFJ @ 8 DS; 28.5 RFJ @ 5 DS; 33.4 RFJ @ 8 DS; 46.4-74.4 RFJ/RMJ @ 1-5, 7-11 DS; 85.4 RMJ @ 4-5 DS	1				6.3 EL @ 8-11 DS; 33.8 EL @ 8-10 DS; 73.2-74.2 EL @ 8 DS			
11084	S-MA60009642	FLEET AV	MH AT STAFFORD ST TO 1ST MH W OF WENTWORTH ST	MH60008005	4.75	MH60008011	4.66	86.4	375		Circ	COMBINED	VC-VITRIFIED CLAY	15						2	7.5 CNI @ 2 DS; 25.2 CNI @ 1 DS			1	8.2	3		0-2.4 remove debris @ 6 DS; 4.8 EL1 @ 6 DS; 14.4-19.0 EL @ 4, 8 DS; 33.4 remove debris @ 1, 7 DS; 47.5 EL1 @ 6 DS; 62.4 EL1 @ 7-9 DS; 71.8 EL @ 8-9 DS; 74.8 EL1 @ 7-11 DS; 76.6 EL1 @ 3-4 DS; 80.4-81.6 EL @ 2-5 DS;		1.9	EPR 83.4-85.3 DS
11085	S-MA60009060	WEATHERDON AV	MH AT PEMBINA HW TO 1ST MH E OF ARBUTHNOT ST	MH60007470	4.19	MH60007466	4.10	78.9	300		Circ	COMBINED	PVC-POLYVINYL CHLORIDE	13						3	5.3 CNI @ 10 DS; 26.6 CNI @ 2 DS; 42.3 CNI @ 2 DS			1	6.0	13		5.3 EM @ 8-9 DS; 7.9 EL1 @ 3, 7-10 DS; 18.0 EL1 @ 9-10 DS; 18.8 EL1 @ 3-4, 7-9 DS; 23.4 EM @ 7-11 DS; 24.9 EL1 @ 7-10 DS; 26.6 EM @ 2-5 DS; 28.8 EL1 @ 7-9 DS; 29.5 EL1 @ 1-5, 9 DS; 38.0 EM/ @ 1-2, 9-11 DS; 38.7 EL1 @ 1-3 DS; 39.6 EL1 @ 3-5 DS; 40.4 EL1 @ 1-3 DS; 41.1 EM1 @ 2-4 DS; 47.5 EL @ 9-9 DS; 48.2 EM @ 2-4 DS; 51.1 EL1 @ 1-4, 9-11 DS; 53.4 EL1 @ 7-8 DS; 56.0 EL @ 2-5 DS; 56.5-57.5 EL @ 1-4, 7-10 DS; 59.2 EL @ 4-5 DS; 70.8 EL @ 3-5 DS			
11086	S-MA60009190	MULVEY AV	1ST MH W OF PEMBINA HW TO MH AT PEMBINA HW (C	MH60007584	3.07	MH60007623	4.09	97.3	300		Circ	COMBINED	VC-VITRIFIED CLAY	17						5	20.2 CNI @ 10 DS; 56.3 CNI @ 10 DS; 69.4 CNI @ 10 DS; 75.0 CNI @ 10 DS; 82.4 CNI @ 10 DS	1.0	96.2 RFJ @ 9-10 DS	1	43.6	4		5.2 EM/ @ 1-4 DS; 7.1 EL1 @ 8-9 DS; 33.5 EL1 @ 8-10 DS; 36.0-82.6 EL @ 1-12 (sporadically) DS; 90.0 EL1 @ 9 DS;		3.2	Potential EPR 62.8 - 66.0 DS
11087	S-MA50011692	HINDLEY AV S OF CL	1ST MH E OF ST MARYS RD TO MH AT ST MARYS RD EFL	MH50009430	3.07	MH50009431	2.86	30.0	525		Circ	STORM	CO-CONCRETE	0			1	1.0	2.2 @ 11 - 1 DS OBI					1				4.1 EL @ 10-12 DS; 6.0 EL @ 12-1 DS; 7.2 RemoveDebris @ 6-9 DS;			
11088	S-MA50014595	KINGSTON RW	MH @ EDINBURGH ST-1ST MH E OF EDINBURGH ST	MH50011682	4.77	MH50011700	6.07	125.9	1125	750	Egg	COMBINED	CO-CONCRETE	34			2	3.0	64.3 - 65.3 @ 3; 93.3 DS; 92.3 - 93.3 @ 10 DS; 94.8-95.8 @ 3 DS			1.0	19.8 RF @ 11-12 DS; 26.4 RT @ 1 DS; 26.6-28.0 RM @ 9-10 DS; 26.7-28.5 RF @ 12 DS; 27.9 RF @ 11 DS; 29.8-30.2 RM @ 1 DS; 29.8-30.2 RM @ 8-9 DS; 30.0 RT @ 11 DS; 30.6-31.0 RM @ 9-10 DS; 32.2-33.3 RM @ 10 DS; 33.2 RM @ 12-4 DS; 34.4-37.4 RF @ 12 DS; 36.4-37.0 RM @ 2-4 DS; 38.2-39.4 RT @ 11-1 DS; 38.6-40.0 RM @ 9-10 DS; 43.8 RT @ 11 DS; 44.9 RT @ 12 DS; 45.4-46.0 RM @ 2-4 DS; 46.2-48.4 RM @ 12-4 DS; 44.8 RT @ 12 DS; 46.4 RT @ 11 DS; 46.4 RT @ 1 DS; 49.8-52.2 RT @ 1 DS; 52.2 RT @ 11 DS; 53.2 RF @ 1 DS; 53.4 RT @ 11 DS; 54.0-56.0 RT @ 11-1 DS; 55.8-57.0 RM @ 9-10 DS; 58.8-59.6 RM @ 9-10 DS; 59.5 RT @ 11-12 DS; 60.2 RT @ 11 DS; 60.8-62.0 RF @ 12 DS; 63.4 RF @ 12-1 DS; 66.0-67.0 RM @ 7-9 DS; 77.2 RT @ 11 DS; 84.2 RT @ 10-11 DS; 86.2 RT @ 11 DS; 86.6 RF @ 1 DS; 89.0-89.4 RF @ 11 DS; 116.5 RF @ 11 DS; 116.5 RF @ 12 DS; 119.6 RF @ 12 DS;	1	46.6			33.6 EL @ 8-9 DS; 34.2 EL @ 3-4 DS; 34.4 EL @ 8-10 DS; 36.0 EL @ 9 DS; 37.6 EL @10-11 DS; 40.4 EL @ 10DS; 40.8 EL @ 2 DS; 41.8 EM @ 8-11 DS; 43.4 EL @ 10 DS; 43.8 RT @ 11 DS; 44.7-45.2 EL @ 3-4 DS; 46.0-53.4 EL @ 8-10 DS; 48.8-51.4 EL @ 2-4 DS; 48.8 EL @ 10-2 DS; 53.6 EL @ 9-10 DS; 54.0 EL @ 10 DS; 55.0-55.4 EL @ 10 DS; 55.0-59.4 EL @ 2-4 DS; 60.2-60.8 EL @ 2-4 DS; 64.0 EL @ 3-4 DS; 67.0 EL @ 7-10 DS; 67.2 EL @ 8-9 DS; 76.8 EL @ 2 DS; 77.2 EL @ 3 DS; 80.3-80.6 EL @ 2-3 DS; 81.2 EL @ 2 DS; 84.0-86.8 EL @ 2-4 DS; 89.0-89.4 EL @ 2-3 DS; 96.6-97.0 EL @ 3-4 DS; 100.4 EL @ 4 DS; 101.4 EL @ 4 DS; 107.6 EL @ 2-4 DS; 112.4-112.8 EL @ 2-3 DS; 115.4-116.6 EL 2-4 DS; 119.8-121.8 EL @ 2-3 DS; 122.6-123.8 EL @ 2 DS;	1.0	31.1 CN @1 DS;		
11089	S-MA50018725	SADLER AV	1ST MH W OF FITZPATRICK RD-MH AT FITZPATRICK RD	MH50014438	1.99	MH50015029	2.87	129.0	300		Circ	SANITARY	CO-CONCRETE	20						5	24.6 CNI @ 3 DS; 76.8 CNI @ 10 DS; 88.3 CNI @ 2 DS; 88.8 CNI @ 10 DS; 99.6 CNI @ 10 DS;					10.6		4.7-7.5 EL @ 8-10 DS; 4.7-7.5 EL @ 3-4 DS; 69.3 EL @ 7-9 DS; 91.2 EL @ 7-8 DS; 94.2 EL @ 4 DS; 102.1 EL @ 8 DS; 126.4 EL @ 8-9 DS		4.0	EPR 4.5 - 8.5 DS
11090	S-MA60021699	OSBORNE ST (WPL)	MH @ BARTLET AVE (SPL) TO MH @ KYLEMORE AVE	MH60018517	5.75	MH60007164	5.70	107.6	900 (1200)	(900)	Circ (Egg)	COMBINED	CO-CONCRETE	11	1	104.6 - 107.6 @12-12	5	3.0	10.4 @ 2-4 DS; 12.2 @ 2-4 DS; 16.2 @ 2-5 DS; 78.6 @ 7 DS;			1.0	99.5 RM @ 11 DS	1	22.8			0-1.4 EL @ 1-4, 8-11 DS; 3.8 EM @ 2-5 DS; 24.8 EL @ 7-9 DS; 25.6 EL @ 2-5 DS; 28.0 EL @ 7-10 DS; 29.7 EM @ 11 DS; 32.0 EL/EM @ 2-4, 9-10 DS; 37.0 EL @ 3-5 DS; 40.4 EM @ 2-5 DS; 42.0 EM @ 7-9 DS; 51.6-53.0 EM/EH @ 3, 5, 7-11 DS; 63.2-64.6 EL @ 3-4, 7-10 DS; 72.5 EM @ 2-5, 7; 9 DS; 74.7 EM @ 8-10 DS; 76.4-81.4 EL/EM @ 1-5 DS; 85.6 EM @ 2-5 DS; 90.4 EM @ 1 DS; 98.8 EH @ 7-11 DS; 105.0-107.6 remove debris @ 1-12 (sporadically) DS	1.0	3.7 CN @1 DS;		
11091	S-MA50017758	ROSEWARNE AV	2ND MH E OF KINGSTON RW TO3RD MH E OF KINGSTOI	MH50014368	6.45	MH50010068	6.65	107.4	1350	900	Egg	COMBINED	CO-CONCRETE	39			1	1.0	36.4 @7-5 DS;		2	32.4 CNI @ 3; 63.9 CNI @ 1;	1.0	14.0 RF @11 DS; 17 RF @ 2 DS; 18.4-21.0 RM @ 10 DS; 86.0 RM @ 12 DS;	1	22.2			36 @ 1-4 DS; 35.0-36.5 @ 9-11 DS; 55.9 - 76.6 @ 1& 9 DS;	2.0	0.8 CN @ 10 DS; 0.8 CN @2 DS;		
11092	S-MA70032289	PILGRIM AV	1ST MH E OF ST ANNES RD TO NODE AT ST ANNES RD	MH50012498	4.01	TE50003395	-	112.0	375		Circ	SANITARY	VC-VITRIFIED CLAY	13			1		0.0-1.0 @ 7-5 DS AT MH		9	20.6 CNI @ 2 DS; 23.7 CNI @ 11 DS; 25.5 CNI @ 1 DS; 30.6 CNI @ 10 DS; 43.9 CNI @ 2 DS; 56.7 CNI @ 2 DS; 84.8 CNI @ 10 DS; 90.7 CNI @ 2 DS; 91.3 CNI @ 10 DS;	1.0	43.6 RMJ @ 2-5 DS; 44.4 RMJ @ 7-10 DS; 55.8 RFJ @ 4-5 DS; 57.1-59.7 RMJ @ 2-4, 7-10 DS; 105.7-108.1 RMJ @ 4-8 DS	1	9.2	4		0 remove debris @ 6 DS; 31.4 EL1 @ 3-5 DS; 36.6 EL @ 7-9 DS; 42.4 EL @ 12-2 DS; 43.5 remove debris @ 2-5 DS; 53.4 EL @ 7-9 DS; 72.5 EL1 @ 1-5, 8-11 DS; 75.7 EL1 @ 2-6 DS; 78.6-82.8 remove debris @ 5-7 DS; 84.8 EL @ 8-10 DS; 88.1 EL1 @ 1-4 DS; 91.2-92.2 remove debris @ 4-7 DS; 104.3 EL1 @ 2 DS;			
11093	S-MA50015608	PILGRIM AV (CL TO N OF RD	MH W OF EGERTON R TO MH AT DES MEURONS S EF	MH50012504	3.10	MH50012503	3.47	85.2	300		Circ	SANITARY	CO-CONCRETE	12						3	35.3 CNI @ 10 DS; 77.5 CNI @ 11 DS; 80.3 CNI @ 2 DS;	1.0	7.6 RM @ 1-2 DS;			5.2	1		8.1 EL1 @ 3 DS; 11.4-11.8 EL @ 2 DS; 15.8-16.6 EL @ 1 DS; 25.9 EL @ 9-4 DS; 28.4 EL @ 9 US; 28.4 EL @ 3 US; 39.2 RemoveDebris @ 3-9 US;			
11094	S-MA50005848	BARBERRY RD (S LEG)	MH AT BARBERRY RD (E LEG) TO 1ST MH W OF BARBER	MH50004961	4.21	MH50004962	4.66	107.5	200		Circ	SANITARY	CO-CONCRETE	13			1		106.5 - 107.5 @12-12 DS AT MH		2	3.8 CNI @ 2 DS; 49.4 CNI @ 10 DS			1	6.4	3		0.0-2.4 EM @ 10-3 DS; 2.4 RemoveDebris @ 9-12 DS; 3.8 RemoveDebris @ 4-5 DS; 21.2 EMJ @ 9-2 DS; 58.4 __ @ 7-8 DS; 60.6 RemoveDebris @ 5 DS; 64.5 EL1 @ 10-11 DS; 95.4 EL1 @ 9-11 DS			
11095	S-MA20008513	DOUGLAS PARK RD (S LE	MH AT DOUGLAS PARK RD-1ST MHW OF DOUGLAS PAR	MH20007849	3.40	MH20007849	4.80	29.2	150		Circ	COMBINED	VC-VITRIFIED CLAY	3						1	3.1 CNI @ 9 DS;	1.0	23.7-27.1 RFJ @1-12 DS	1	0.6			11.8-13.0 EL @ 3 DS; 17.4-19.8 EL @ 4-8 DS		2.4	EPR 26.8 - 29.2 DS
11096	S-MA20008522	DOUGLAS PARK RD (S LE	1STMH E OF DOUGLAS PARK RD-MH AT DOUGLAS PARK	MH20007848	3.37	MH20007849	4.80	32.8	150		Circ	COMBINED	VC-VITRIFIED CLAY	3								1.0	8.3 RFJ @ 9 DS; 24.0 RFJ @ 3, 9 DS; 26.5 RMJ @ 3-4, 8-10 DS; 1.5 RFJ @ 8-10 US; 4.0 RFJ @ 2-4 US; 4.6 RMJ @ 2-5, 9 US; 5.9 RMJ @ 8-10 US									
11097	S-MA20008500	DEER LODGE PL (E LEG)	2ND MH S OF PORTAGE AV - 3RD MH S OF PORTAGE AV	MH20007917	3.85	MH20007835	4.25	74.1	300		Circ	COMBINED	CO-CONCRETE	11						1	33.8 CNI @ 10 DS			1	2.6	2		21.8-27.4 EL @ 7-11 DS; 45.6 EL1 @ 3-5 DS; 55.8 EM1 @ 1-5 DS		0.7	EPR 20.4 - 21.1 DS
11098	S-MA20010610	PORTAGE AV	1ST MH W OF STRATHCONA ST TO MH AT STRATHCONA	MH20009676	6.48	MH20009681	7.24	76.8	750		Circ	COMBINED	CO-CONCRETE	11		1	2.6	0-3.6 @ 5-7 US		1	22.7 CNI @ 11 DS					41.0			4.0-10.8 EM @ 3-9 DS; 26.7 EM @ 2-5 DS; 27.3 EM @ 9-11 DS; 3.6-8.2 EL @ 5, 7 US; 17-36.2 EM @ 5, 7 US; 23.0 EM @ 7-11 US; 42.6-50.0 EL @ 5 US			
11099	S-MA70016029	LANE W OF DOMINION	1ST MH S OF WOLSELEY AV TO NODE AT WOLSELEY AV	MH70006432	2.92	TE70008265	-	54.8	600		Circ	SANITARY	CO-CONCRETE	0								1.0	27.4 RFJ @ 1-2, 9-11 DS; 31.2-39.0 RF @ 10-2 DS;			1	51.8			0-54.8 EL @ 3-9 DS		1.5	EPR 42.0-43.5 DS
11100	S-MA20015053	WESTMINSTER AV	1ST NODE E OF RUBY ST TO MH AT RUBY ST (CL)	MH20012753	4.10	MH70017578	2.50	32.7	300		Circ	COMBINED	VC-VITRIFIED CLAY	5						1	21.3 CNI @ 2 US					1		25.0 EL @ 7-9 US		1.0	EPR 35.5 - 36.5 prior to MH
11101	S-MA20013963	ETHELBERT ST	2ND MH S OF WESTMINSTER AV TO 1ST MH S OF WEST	MH20012649	4.86	MH20012652	5.61	78.4	300		Circ	COMBINED	VC-VITRIFIED CLAY	10		1		78.6 @ 12 DS at MH		5	19.4 CNI @ 10 DS; 28.0 CNI @ 1 DS; 33.7 CNI @ 11 DS; 47.7 CNI @ 10 DS; 49.1 CNI @ 2 DS	1.0	50.1 RFJ @ 4, 8, 12 DS	1		5		3.0 EL1 @ 12-4 DS; 4.5-5.5 EL/EM @ 7-4 DS; 28.0 EH @ 2-5 DS; 33.7 EL @ 7-10 DS; 44.9 EL1 @ 1-4 DS; 45.6 EL1 @ 8-4 DS; 54.6 EL1 @ 8-2 DS; 59.3 EL1 @ 8-10 DS;			
11102	S-MA20015313	WESTMINSTER AV	MH AT CANORA ST TO MH AT CHESTNUT ST	MH20013811	6.62	MH20013810	6.73	81.4	900		Circ	COMBINED	CO-CONCRETE	2		3	2.6	2.4 @ 5 DS; 10.2 @ 5 DS; 39.8-41.0 @ 8-10 DS; 54.0 @7-5 DS; 61.4 @3-5 DS; 79.8-81.2 @2-5, 7-11 DS						1	10.6			2.5 remove debris @ 5-7 DS; 10.6 remove debris @ 5-7 DS; 14.7 remove debris @ 6 DS; 30.5 remove debris @ 6 DS; 32.3 remove debris @ 6 DS; 47.0 remove debris @ 6 DS; 50.8 remove debris @ 6 DS; 56.5-60.1 remove debris @ 5-7 DS; 61.2 EM @ 3-4 DS; 63.2 remove debris @ 6 DS; 71.8 remove debris @ 5-7 DS			
11103	S-MA20015338	WALNUT ST	MH AT WESMINSTER AV TO NODE AT PURCELL AV	MH20013824	7.00	TE20005403	-	87.6	900		Circ	COMBINED	CO-CONCRETE	12		3		2.0 @ 3-4 DS; 31.0 @ 1-4 DS; 43.8 @3 DS						1	19.7		3.0	18.6-48.2 remove debris @ 4-8 DS; 51.2-83.5 remove debris @ 4-8 DS	3.0	16.5 CN @ 10 DS; 40.4 CN @11; 40.4 CN @ 1		
11104	S-MA20013652	WEST GATE	1ST MH SE OF CORNISH AV TO MH AT CORNISH AV	MH20012365	6.83	MH20012366	8.67	83.5	450		Circ	COMBINED	VC-VITRIFIED CLAY	11								1.0	21.4 RFJ @ 11-2 DS; 57.8 RMJ @ 7 DS			1		3		73.5 EM/ @ 1-5 DS; 74.4 EM/ @ 1-12 DS; 77.2 EL1 @ 1-5 DS; 79.0 remove debris @ 6		1.1	EPR 27.0 - 28.1 DS
11105	S-MA60020740	NASSAU ST N	1ST MH N OF STRADBROOK AV TO 2ND MH E OF WILM	MH60017837	6.86	MH60017812	7.10	163.9	1350	900	Egg	COMBINED	BR-BRICK	21						3	107.6 CNI @ 2 DS; 117.6 CNI @ 10 DS; 124.9 CNI @ 2 DS;	1.0	49.2 RM @ 2-5 DS; 56.9 RM @ 7-10 DS; (small roots throughout first 80m);	1	6.0			8.2 EL @ 3-5 DS; 16.6 EL @ 7-10 DS; 21.4 EL @ 7-11 DS; 82.5 EL @ 7-9 DS; 105.2 EL @ 12-5 DS; 107.2 EL @ 1-3, 7-10 DS; 120.2 EL @ 2-4 DS; 131.8 remove brick @ 12 DS; 157.2 EM @ 7-10 DS	6.0	40.7 CN @ 11 DS; 42.3 CN @ 12 DS; 100.7 CN @ 9 DS; 105.3 CN @ 12 DS; 107.4 CN @ 9 DS; 132 CN @ 1 DS;		
11106	S-MA20014360	WESTMINSTER AV	MH AT MARYLAND ST (W PL) TO 1ST MH W OF MARYLA	MH20012977	1.52	MH20012978	1.52	94.5	300		Circ	COMBINED	VC-VITRIFIED CLAY	9						2	2.7 CNI @ 10 DS; 21.3 CNI @ 11 US			1	3.8	2		10.3 EL1 @ 7 DS; 14.6-15.4 remove debris @ 5-7 DS; 15.7 EL @ 7-9 DS; 31.7 EH @ 7-11 DS; 0-2 remove debris @ 5-7 US; 20.0 EM @ 3-4 US; 44.2 ELJ @ 3-5 US; 53.3-54.3 EL @ 2-8 US;			
11107	S-MA20014625	SHERBROOK ST	MH AT PORTAGE AV (NPL) TO 1ST MH S PORTAGE AV	MH20013205	4.00	MH20013206	4.53	119.3	300		Circ	SANITARY	VC-VITRIFIED CLAY	24						12	4.1 CNI @ 10 DS; 19.0 CNI @ 2, 10 DS; 45.2 CNI @ 10 DS; 48.9 CNI @ 2 DS; 49.3 CNI @ 10 DS; 53.8 CNI @ 3 DS; 58.1 CNI @ 10 DS; 61.5 CNI @ 1 DS; 73.1 CNI @ 2 DS; 79.5 CNI @ 10 DS; 9.5 CNI @ 2 US; 15.7 CNI @ 3 US			1	26.8			21.3-43.1 EL @ 5-7 DS; 58.1 EM @ 7-10 DS; 61.5 EM @ 1-5 DS; 73.1 EM @ 2-4 DS; 79.5 EL @ 7-10 DS; 91.7 EM @ 2-5 DS; 96.0 EL @ 3-4 DS; 101.1 EH @ 1-5 DS; 2.2 EM @ 7-9 US;			
11108	S-MA20014265	BROADWAY (CL)	MH AT DONALD ST (CL) TO MH AT SMITH ST	MH20012895	4.06	MH20012912	5.18	99.7	375		Circ	COMBINED	CO-CONCRETE	7						2	17.3 CNI @ 1 DS; 34.8 CNI @ 9 DS	1.0	42.6 RFJ @ 1 DS; 51.3-52.1 RF @ 10-2 DS;	1	5.6			4.5-6.7 remove debris @ 5-7 DS; 17.0 remove debris @ 6 DS; 53.8-57.2 EL @ 4-8 DS; 67.1 remove debris @ 5-6 DS; 81.2 EM @ 1-5 DS			
11109	S-MA20014268	DONALD ST (CL)	1ST MH N OF BROADWAY TO MH AT BROADWAY (CL)	MH20012907	3.59	MH20012895	4.06	66.3	375		Circ	COMBINED	CO-CONCRETE	8						5	5.8 CNI @ 2 DS; 20.2 CNI @ 10 DS; 23.9 CNI @ 10 DS; 45.0 CNI @ 2 DS; 57.9 CNI @ 1 DS			1	4.8	6		1.6-5.2 EL @ 12-3, 9 DS; 12.3 EL1 @ 8-11 DS; 18.6 EL1 @ 8-9 DS; 20.5 EL1 @ 3-10 DS; 21.7 EL1 @ 8 DS; 24.2 EL @ 3-5 DS; 39.0 EL1 @ 8 DS; 44.6 EM1 @ 3-4 DS; 46.0 EL @ 3-4 DS; 47.7-48.5 ELJ @ 4, 8; 52.0-55.4 ELJ @ 3-4 DS			
11110	S-MA50004083