2018 Sewer Renewals by CIPP Lining, Contract 2, Tender 481-2019

Appendix A - Repair Requirements

Sewer Details																Pre-Lining Inspection																							
DWG	Sheet	Sewer Asset	Street Name	Location	Manholes				Length	Size		Shape	Flow Type	Material	Pre-Repair Inspection Required	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 Contractor		Notes
					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 3m	Tender >3m (m)	Tender at Joints	Description	Service Grouting	Description	Distance (m)	Description	Description
12265	1	S-MA00017553	AKINS ST	MH AT HARTFORD AV TO MH AT PERTH AV	S-MH00010115	5.98	S-MH00009976	6.00	97.8	750		CIRCULAR	COMBINED	CO-CONCRETE	YES	5								1.0	67.2M RFI @ 3 DS; 78.2M RFI @ 1 DS;	1		5	2.5M ELI @ 1-4 DS; 4.1M ELI @ 2 DS; 5.2M ELI @ 1 DS; 6.3M ELI @ 1 DS; 12.2M ELI(CN) @ 10-11 DS;				
12266	2	S-MA00012214	BANNERMAN AV	1ST MH E OF ROBERTSON ST TO MH AT AIRLIES ST	S-MH00010551	5.50	S-MH00010588	6.04	80.6	600		CIRCULAR	COMBINED	CO-CONCRETE	NO	14								1.0	26.2M RFI @ 1 DS;	1		16	1.6M ELI @ 7-11 DS; 2.3M ELI @ 6-4 DS; 4.6M ELI @ 4-5; 7.8 DS; 6.1M ELI @ 3-5 DS; 7.9M ELI(CN) @ 2-4 DS; 10.7M ELI @ 8-10 DS; 13.1M ELI @ 9 DS; 22.3M ELI @ 7 DS; 23.1M ELI @ 4 DS; 23.8M ELI @ 4, 8 DS; 26.9M ELI @ 5 , 7-9 DS; 33.2M ELI @ 2-4 DS; 44.7M ELI @ 8 DS; 48.5M ELI @ 8 DS; 61.7M ELI @ 8 DS; 62.5M ELI @ 8-9 DS;				
12267	3	S-MA70012139	MCPHILLIPS ST WPL	MH N OF UNDERPASS TO 1ST MH S OF UNDER PASS	S-MH70004867	4.88	S-MH70004868	-	95.3	600		CIRCULAR	SANITARY	ST-STEEL	NO	0								1.0	6.2-25.9M DEG @ 2-4, 8 DS; 33.2-37.1M DEG @ 4, 8 DS; 37.2-41.5M DEG @ 1-5, 7-10 DS; 41.6-55.8M DEG @ 4, 8 DS; 57.0M DEG @ 8 DS; 61.7-93.9M DEG @ 3-4, 8-9 DS;	1	3.8	9	2.7M ELI @ 7-9 DS; 4.1M EL @ 2-4, 7-9 DS; 5.2M ELI @ 9-4 DS; 5.3M EL @ 4, 8 DS; 6.0M ELI @ 8-11, 4 DS; 11.4M ELI @ 1 DS; 26.5M ELI @ 8, 10-4 DS; 27.5-30.3M EL @5-6, 8 DS; 30.4M ELI @ 2-5, 8 DS; 31.2M EL @ 3 DS; 32.4M ELI @ 2-4 DS; 35.2M ELI @ 2 DS; 37.4M ELI @ 9 DS; 94.0M EL @ 9-1 DS;				
12268	4	S-MA70012140	EASEMENT(N OF HIGGINS AV)	1ST MH E OF MCPHILLIPS ST - MH@MC PHILLIPS ST(WP	S-MH70004868	-	S-MH70066235	5.64	78.6	600		CIRCULAR	COMBINED	VC-VITRIFIED CLAY	YES	0								1.0	4.4-7.4M DEG @ 7-9 US; 8.7M DEG @ 10, 3 US; 9.4-14.5M DEG @ 9, 3 US; 14.8M DEG @ 8-10, 2-4 US; 15.6M DEG @ 5, 9 US; 16.8-18.9M DEG @ 8-10, 3 US; 19.7M DEG @ 9, 3 US; 20.9-37.9M DEG @ 8-10, 2-4 US; 40.1-48.6M DEG @ 9-10, 2-4 US; 48.7-49.8M DEG @ 8-4 US; 77.3M DEG @ 8-4 US;	1		30	2.6M ELI @ 9-11 US; 3.0M ELI @ 1-3 US; 3.5M ELI @ 10 US; 4.7M ELI @ 10 US; 5.2M ELI @ 9-11 US; 6.6M ELI @ 9-12 US; 7.2M ELI @ 9-3 US; 8.4M ELI @ 10 US; 8.9M ELI @ 9-3 US; 10.3M ELI @ 9-4 US; 10.9M ELI @ 3 US; 14.5M ELI @ 10-3 US; 15.4M ELI @ 12-3 US; 15.9M ELI @ 9-3 US; 16.6M ELI @ 9-3 US; 17.1M ELI @ 9-3 US; 17.8M ELI @ 10 US; 18.3M ELI @ 9-4 US; 18.9M ELI @ 9-3 US; 19.6M ELI @ 10-2 US; 20.3M ELI @ 1 US; 23.9M ELI @ 1 US; 24.3M ELI @ 12-2 US; 26.4M ELI @ 11-3 US; 35.9M ELI @ 8-11 US; 39.8M ELI @ 4 US; 41.7M ELI @ 10 US; 42.4M ELI @ 10-12 US; 42.9M EMJ @ 9-3 US; 45.4M ELI @ 9-2 US; 62.4M ELI @ 9-3 US;				
12269	5	S-MA20018718	SHERBROOK ST	MH AT ALEXANDER AV (N PL) TO SEWER T AT LUDGAN AV	S-MH20016778	4.54	S-TE20007420	BLIND TEE	109.2	600		CIRCULAR	COMBINED	BR-BRICK	NO	17					8.3M CNI @ 2 DS; 8.4M CNI @ 10 DS; 37.1M CNI @ 2 DS; 39.9M CNI @ 10 DS; 54.2M CNI @ 11 US; 42.0M CNI @ 10 US; 63.8M CNI @ 10 US;	7		1.0	2.7M RF @ 4 DS; 14.2M DEG @ 7-4 US; 42.4M DEG @ 6-8 US; 53.9M DEG @ 5 US; 58.3M RF @ 5 US; 58.8M RF @ 5-7 US;	1	9.5	7	2.5M EL @ 9-5 DS; 10.8M ELI(CN) @ 8-11 DS; 28.0M EL (CN) @7-12 DS; 34.6M ELI(CN) @ 2-4 DS; 42.8M EL @ 4 DS; 43.4M EL @ 2-4 DS; 49.9M EH @ 1-4 DS; 59.6M ELI(CN) @ 2-4 US; 39.9-41.4M EL @ 5 US; 42.0M EM @ 4-6 US; 42.4M EL @ 5 US; 43.1M EL @ 4-5 US; 48.5M EL @ 5, 7 US; 49.9M EL @ 5 US; 55.1M EL @ 5 US; 58.9M EL @ 5 US; 59.4M ELI(CN) @ 8-10 US; 59.7M ELI(CN) @ 12-4 US; 64.7M ELI(CN) @ 7-10 US;				
12270	6	S-MA20017229	ELLICE AV	MH AT INGERSOLL ST TO JUNCTION AT LIPTON ST	S-MH20015458	8.30	S-TE20006214	BLIND TEE	79.2	750/900*		CIRCULAR	COMBINED	VC-VITRIFIED CLAY	NO	8										1		2	20.9M EL @ 4, 8 DS; 37.1M ELI(CN) @ 8-11 DS; 43.4M EL @ 2 DS; 44.0M ELI(CN) @ 2-5, 7-11 DS; 67.4M EL @ 7-9 DS;				
12271	7	S-MA70013476	ELLICE AV	MH AT INGERSOLL ST(W CL) TO MH AT INGERSOLL ST (CL)	S-MH70011775	8.20	S-MH20015458	8.30	7.4	750		CIRCULAR	COMBINED	CO-CONCRETE	NO	0								1.0	2.5-5.1M DEG @ 9 DS;												
12272	8	S-MA70013475	ELLICE AV	MH AT SHERBURN ST TO MH AT W PL INGERSOLL ST	S-MH20015340	7.73	S-MH70011775	8.01	73.1	750		CIRCULAR	COMBINED	CT-CLAY TILE	NO	3										1		1	9.2M EL @ 1-3 DS; 37.1M ELI(CN) @ 9-11 DS;				
12273	9	S-MA20009654	ELLICE AV	MH AT DOMINION ST TO MH AT GARFIELD ST	S-MH20008825	7.03	S-MH20008848	7.42	84.0	600		CIRCULAR	COMBINED	VC-VITRIFIED CLAY	NO	6										1		12	34.3M ELI @ 2 DS; 36.7M ELI @ 10 DS; 37.8M ELI(CN) @ 11 DS; 41.3M ELI(CN) @ 2-4 DS; 43.7M ELI @ 4-12 DS; 43.9M ELI(CN) @ 7-5 DS; 44.8M ELI(CN) @ 2-4 DS; 46.4M ELI(CN) @ 8-11 DS; 57.7M ELI @ 8-5 DS; 58.5M ELI @ 8-11 DS; 61.6M ELI @ 9-11 DS; 62.4M ELI @ 2 DS;				
12274	10	S-MA20009441	ST MATTHEWS AV	1ST MH W OF DOMINION ST TO MH AT DOMINION ST	S-MH20008634	N/A	S-MH20008635	6.74	45.9	600		CIRCULAR	COMBINED	CO-CONCRETE	YES	8					20.7M CNI @ 10 US;	1				1	7.4	1	3.6-5.0M EL @ 8-10 US; 5.9M EL @ 8-10, 2-4 US; 7.0M EL @ 2-4 US; 8.7M EL @ 8 US; 10.0M EL @ 2 US; 11.0M ELI(CN) @ 2 US; 12.0M EL @ 2 US; 13.7M EL @ 8-10 US; 15.8M EL @ 2-4 US; 18.1M EL @ 2-4 US; 45.2M DE @ 2-10 US;				
12275	11	S-MA20009763	SANFORD ST S	1ST MH S OF ST MATTHEWS AV TO MH AT ST MATTHEWS AV	S-MH20008928	5.13	S-MH20008927	4.91	36.2	750		CIRCULAR	COMBINED	CO-CONCRETE	YES	4										1	1.0	5	15.9M EL @ 1-3 DS; 23.1M EL @ 8-11 DS; 26.5M ELI @ 8-2 DS; 28.0M ELI(CN) @ 1-5 DS; 29.6M ELI @ 8-4 DS; 30.9M EL @ 10 DS; 32.1M ELI @ 10-4 DS; 34.6M ELI @ 8-4 DS; 35.1M EL @ 1-4 DS;				
12276	12	S-MA20007628	ST MATTHEWS AV	MH AT PARKVIEW ST TO MH AT ROSEBERRY ST	S-MH20007033	4.80	S-MH20006979	5.39	90.3	750		CIRCULAR	COMBINED	CO-CONCRETE	NO	2										1	5.0	2	7.0M EL @ 8-10 DS; 13.1M EL @ 9-3 DS; 16.9M EL @ 8-11 DS; 30.7-33.9M EL @ 2-4 DS; 34.0M ELI @ 8-4 DS; 43.6M EL @ 3-4 DS; 49.8M ELI @ 8-4 DS; 50.6M EL @ 4 DS; 70.9M EL @ 9-11 DS; 83.4M EL @ 10 DS;				
12277	13	S-MA20007627	ST MATTHEWS AV	MH AT ROSEBERRY ST TO MH AT COLLEGIATE ST	S-MH20006979	5.39	S-MH20006978	6.29	89.9	750		CIRCULAR	COMBINED	CO-CONCRETE	NO	1										1	1.0	3	15.5M ELI @ 10 DS; 27.3M EL @ 8-12 DS; 30.2M EL @ 7-9 DS; 39.4-43.9M EL @ 12-2 DS; 44.8M EL @ 2 DS; 59.4M ELI(CN) @ 8-3 DS; 71.7M ELI @ 4 DS;				
12278	14	S-MA20005155	LODGE AV	MH AT HARMON TO MH AT MOORGATE ST (W PL)	S-MH20004718	5.70	S-MH20004782	7.20	170.8	900		CIRCULAR	COMBINED	CO-CONCRETE	NO	7					89.8M CNI @ 2 DS;	1		1.0	57.2M RF @ 11-2 DS; 104.9M RF @ 12 DS;	1	34.0	41	3.4M ELI @ 8-4 DS; 4.8M ELI @2-5 DS; 7.0M EL @ 4-5, 8 DS; 8.1M EL @ 8-10 DS; 8.6M EL @ 10-12 DS; 10.6M ELI @ 10 DS; 11.6M ELI @ 9 DS; 12.7M ELI @ 7-5 DS; 14.2M EL @ 10-12 DS; 15.9M ELI @ 2-5 DS; 18.1M ELI @ 10-12 DS; 19.7M EL @ 2 DS; 21.8M EL @ 10, 1 DS; 23.4M ELI @ 9-1 DS; 25.2M EL @ 10, 2 DS; 26.5M EL @ 5 DS; 32.6M ELI @ 10-3 DS; 33.5M ELI @ 9 DS; 34.2M ELI @ 7-10, 2-4 DS; 38.7M EL @ 1-4 DS; 41.7-43.5M EL @ 8-10, 3 DS; 43.6M ELI @ 7-5 DS; 45.2M ELI(CN) @ 10-4 DS; 46.7M EL @8-4 DS; 53.2M ELI @ 10 DS; 55.4M ELI @ 10 DS; 58.4M ELI @ 2-4 DS; 64.4M EL @ 9 DS; 67.2M EL @ 8 DS; 67.9M ELI @ 2-4 DS; 68.6M EL @ 2-5, 8-10 DS; 69.8M EL @ 4, 8 DS; 72.4M EL @ 8-10 DS; 74.0M EL @ 8 DS; 80.7M ELI @ 8-10, 2-4 DS; 82.7M ELI(CN) @ 1 DS; 84.8M EL @ 7-9 DS; 89.8M ELI(CN) @ 4 DS; 90.6M ELI @ 8-10, 3-5 DS; 94.9M EL @ 10 DS; 97.3M EL @ 9 DS; 97.6M EL @ 2-4 DS; 102.2M EL @ 9 DS; 102.6M ELI @ 9, 2-4 DS; 104.3M ELI @ 2-4 DS; 108.1M ELI @ 7-9 DS; 110.0M ELI @ 7-10 DS; 112.3M ELI @ 8-10 DS; 114.0M ELI @ 2 DS; 115.5M EL @ 2-4, 8 DS; 117.0M ELI @8-10 DS; 118.9M ELI @ 8 DS; 121.4M ELI @ 4 DS; 122.5M EL @ 8 DS; 123.0M ELI @ 8-10 DS; 123.9M EL @ 2-3 DS; 125.7M EL @ 2-4 DS; 126.4-128.6M EL @ 8-4 DS; 130.2M ELI @ 9, 2-4 DS; 133.9M ELI @ 9-11 DS; 135.8M EL @ 2-4, 8 DS; 137.4M ELI @ 8-10, 2-4 DS; 139.8M EL @ 2-4 DS; 142.4M ELI @ 8 DS; 143.0M ELI @ 8-4 DS; 143.7M EL @ 8-10 DS; 146.9M ELI @ 8-10, 3 DS; 148.9M ELI @ 12-2 DS; 152.4M ELI @ 8-5 DS; 153.5M EL @ 8-10 DS; 156.3M ELI @ 7-10, 3 DS; 157.7M ELI @ 5, 2-4 DS; 158.5M EL @ 8-11 DS; 159.2M ELI @ 8-10 DS; 161.1M ELI @ 8-2 DS; 164.3M EL @ 2 DS;				
12279	15	S-MA60003590	VIALOUX DR N PL	1ST MH W OF MONARCH MEWS TO TE E OF MONARCH MEWS	S-MH60002599	2.55	S-TE60001092	BLIND TEE	20.4	750		CIRCULAR	STORM	CO-CONCRETE	NO	0			1		19.7m H @ 6:00 DS					1		2	4.7M ELI @ 9-3 DS; 19.7m OB (REBAR) @ 6:00 DS				
12280	16	S-MA60008616	MONTROSE ST	3RD MH N OF CORYDON AV TO MH AT GROSVENOR AV (CL)	S-MH60007050	4.75	S-MH60007045	5.70	91.5	600*		CIRCULAR	COMBINED	VC-VITRIFIED CLAY	YES	15								1.0	0.0 RFI @ 1 DS; 1.8M RFI @ 4, 8 DS; 2.6M RFI @ 3, 7-9 DS; 3.0M RMECN; @ 12-6, 8-10 DS; 3.9M @12-5, 9 DS; 4.9-6.5M RM @ 2-5, 7-10 DS; 6.9M RFI @ 4-7 DS; 7.7M RFI @ 4, 8 DS; 8.5M RFI @ 4-6 DS; 9.3M RFI @ 4, 8 DS; 10.1M RFI @ 8 DS; 10.9-15.5M RFI @ 4 DS; 17.0M RFI @ 4 DS; 17.8M RFI @ 4-6 DS; 18.5M RMI @ 4-6, 8 DS; 19.3M RFI @ 4, 8 DS; 20.2M RFI @ 2-4, 8; 21.0M DS; 21.4M RMECN; @ 7-11 DS; 21.6M RFI @ 3 DS; 22.4M RFI @ 4 DS; 48.7M RFI @ 1 DS; 49.4M RFI @ 11, 2 DS; 56.5M RFI @ 4 DS; 57.2M RFI @ 4, 8 DS; 58.0M RFI @ 8 DS; 58.8-62.6M RFI @ 5, 8 DS; 63.0M RFI @ 1 DS; 64.7M RFI @ 3-5 DS; 65.6M RMI @ 11-5 DS; 65.9M RMECN; @ 7-10 DS; 70.9M RFI @ 3 DS; 73.2M RFI @ 9-3 DS; 74.0M RFI @ 9, 2-3 DS; 74.7M RFI @ 4, 8 DS; 75.5M RFI @ 8-11 DS; 76.2-77.6M RFI @ 8 DS; 78.5M RFI @ 2-4 DS; 79.2M RFI @ 4, 8 DS; 80.0M RFI @ 9-3 DS; 80.8-82.1M RFI @ 8-4 DS; 84.0M RFI @ 4 DS; 84.7M RFI @ 8 DS;	1			20.8m OBS @ 6:00			5.9	1.8m-7.7m DS	
12281	17	S-MA60011130	OXFORD ST	1ST MH S OF CORYDON AV TO 2ND MH S OF CORYDON AV	S-MH6009425	3.28	S-MH60009404	3.72	100.8	600		CIRCULAR	COMBINED	VC-VITRIFIED CLAY	YES	20								1.0	1.2M RFI @ 2, 7-10 DS; 2.0M RFI @ 4, 8 DS; 2.6M RFI @ 8-4 DS; 3.4M RFI @ 9, 3 DS; 3.7M RF @ 12 DS; 4.2M RFI @ 9, 3 DS; 4.8M RFI @ 10, 4 DS; 5.6M RF @ 1 DS; 41.8M RF @ 2 DS; 44.3M RMECN; @ 3-5 DS; 46.6M DEG @ 7 DS; 49.0M RF @ 12 DS; 51.2M RF @ 3-5 , 7-8 DS; 54.1M RF @ 3, 9 DS; 56.5M RF @ 12, 2 DS; 59.4M RM @ 5, 7 DS; 60.6-65.5M RF @ 3-5, 7-9 DS; 66.5M RMECN; @ 4-5, 7 DS; 68.4M RF @ 8 DS; 71.1-72.7M RF @ 4-5, 7-8 DS; 75.4M RF @ 2, 8 DS; 74.5M RF @ 8 DS; 76.1-77.7M RF @ 9 DS; 80.8M DEG @ 5, 7 DS; 81.8M RFI(CN) @ 4-9 DS; 83.8M RF @ 3-5 DS; 84.1M RF @ 12 DS; 89.1M RFI(CN) @ 7 DS; 89.4M RF @ 10 DS; 91.3M RF @ 12 DS; 94.5M RF @ 2 DS; 100.8M RF @ 4 DS; 105.2M RF @ 2 DS; 111.8M RMECN; @ 7-8 DS; 112.5M RMECN; @ 4-5 DS; 113.8M RM @ 7 DS; 114.3 RF @ 8-10 DS; 119.4M RMECN; @ 5-8 DS; 126.7M RFI(CN) @ 7 DS; 128.0M RFI(CN) @ 5 DS;	1		5	1.2M ELI @ 11-3 DS; 40.6M ELI @ 9 DS; 73.1M ELI @ 5 DS; 41.7M ELI(CN) @ 10 DS; 75.2M EL @ 8 DS; 91.0M OBS (METAL CLAW) @ 6 DS; 91.9M ELI(CN) @ 1 DS;				
12282	18	S-MA60011099	CAMBRIDGE ST	1ST MH S OF POSEIDON BY TO MH AT POSEIDON BY	S-MH60009175	3.95	S-MH60009387	4.10	100.0	600		CIRCULAR	COMBINED	CO-CONCRETE	YES	12					14.7M CNI @ 11 DS; 47.4M CNI @ 1 DS;	2															
12283	19	S-MA50001861	KINGSTON CR (W LEG)	1STMHNOF KINGSTONCR(SLEG)TO2NDMH WOF RIVERDALEAV	S-MH50001628	2.55	S-MH50001629	2.60	93.3	600		CIRCULAR	COMBINED	VC-VITRIFIED CLAY	YES	10					17.3M CNI @ 3 DS; 35.1M CNI @ 9 DS; 47.5M CNI @ 3 DS; 50.1M CNI @ 9 DS; 78.4M CNI @ 4 DS; 85.6M CNI @ 9 DS;	6		1.0	11.2M DEG @ 8 DS; 14.0M DEG @ 8 DS; 16.5M DEG @ 8 DS; 18.1M DEG @ 8 DS; 20.6M DEG @ 4 DS; 21.5-24.4M DEG @ 4, 8 DS; 25.2-29.6M DEG @ 4, 8 DS; 65.2M DEG @ 10 DS; 74.8M DEG @ 8 DS;															
12284	20	S-MA50001846	KINGSTON CR (NLEG)	1ST MH E OF RIVERDALE AVE- 2NDMH E OF RIVERDALE	S-MH50001612	2.90	S-MH50001613	2.92	153.4	900	600	EGG	COMBINED	CO-CONCRETE	YES	16					66.5M CNI @ 7 DS; 102.3M CNI @ 7 DS; 131.6M CNI @ 7 DS;	3		1.0	2.2M RF @ 12 DS; 40.7M RF @ 1 DS; 41.8M RF @ 2 DS; 44.3M RMECN; @ 3-5 DS; 46.6M DEG @ 7 DS; 49.0M RF @ 12 DS; 51.2M RF @ 3-5 , 7-8 DS; 54.1M RF @ 3, 9 DS; 56.5M RF @ 12, 2 DS; 59.4M RM @ 5, 7 DS; 60.6-65.5M RF @ 3-5, 7-9 DS; 66.5M RMECN; @ 4-5, 7 DS; 68.4M RF @ 8 DS; 71.1-72.7M RF @ 4-5, 7-8 DS; 75.4M RF @ 2, 8 DS; 74.5M RF @ 8 DS; 76.1-77.7M RF @ 9 DS; 80.8M DEG @ 5, 7 DS; 81.8M RFI(CN) @ 4-9 DS; 83.8M RF @ 3-5 DS; 84.1M RF @ 12 DS; 89.1M RFI(CN) @ 7 DS; 89.4M RF @ 10 DS; 91.3M RF @ 12 DS; 94.5M RF @ 2 DS; 100.8M RF @ 4 DS; 105.2M RF @ 2 DS; 111.8M RMECN; @ 7-8 DS; 112.5M RMECN; @ 4-5 DS; 113.8M RM @ 7 DS; 114.3 RF @ 8-10 DS; 119.4M RMECN; @ 5-8 DS; 126.7M RFI(CN) @ 7 DS; 128.0M RFI(CN) @ 5 DS;	1		8	5.2M ELI(CN) @ 7-8 DS; 35.8M ELI(CN) @ 7-8 DS; 44.3M ELI(CN) @ 3-5 DS; 66.5M ELI(CN) @ 4, 6-7 DS; 67.2M ELI(CN) @ 3 DS; 119.4M ELI(CN) @ 7 DS; 131.6M ELI(CN) @ 7-8 DS; 150.0M ELI(CN) @ 7-8 DS;				
12285	21	S-MA50014097	RUE DES MEURONS EPL	MH@DUNRAVEN AV-1STMH S OF DUNRAVEN AV	S-MH50011265	1.55	S-MH50011262	1.70	54.6	600		CIRCULAR	STORM	CO-CONCRETE	NO	2						1	2.3M CNI @ 2 DS;			1		6	2.3M ELI@ 8-9 DS; 3.5M ELI @ 9 DS; 8.3M ELI @ 8, 10 DS; 9.6M ELI @ 9 DS; 11.7M ELI(CN) @ 5 DS; 13.3M OB (ESASET) @ 12 DS;				
12286	22	S-MA50005448	ELIZABETH RD	1ST MH E OF BLEAU AVE TO MH AT SPEERS RD	S-MH50004661	4.10	S-MH50004662	4.55	105.3	600		CIRCULAR	COMBINED	CO-CONCRETE	NO	11					2.9M CNI @ 3 DS; 55.3M CNI @ 2 DS; 58.0M CNI @10 DS;	3		1.0	54.5M DEG @ 5, 7 DS;	1	12.4	34	2.7M ELI @ 3-5, 7-9 DS; 4.4M ELI @ 4-5, 7-9 DS; 6.4M ELI @ 2-5, 7 DS; 8.3M ELI @ 2-5 DS; 10.1M ELI @ 7-3 DS; 12.0M ELI @ 3-5, 8-12 DS; 13.9M ELI @ 8-11 DS; 15.8M ELI @ 4 DS; 17.7M ELI @ 5, 7 DS; 21.5M ELI @ 5 DS; 25.9M EL @ 7-9 DS; 26.9M ELI(CN) @ 7-11 DS; 29.0M ELI @3-4 DS; 31.0-32.4M EL @ 4 DS; 33.1M EL @ 4DS; 33.7M EL @ 4, 7 DS; 34.6-34.5M EL @ 12-5, 7-9 DS; 35.6-39.7M EL @ 3-5, 7-12 DS; 46.0M ELI @ 3-5 DS; 53.6M ELI @ 3-4, 9 DS; 56.3M EL @ 8 DS; 57.3M ELI @ 4, 8-9 DS; 58.0M ELI(CN) @7-10 DS; 59.3M ELI @ 5, 7-10 DS; 61.1M ELI @ 7 DS; 63.0M ELI @ 5, 8-10 DS; 66.8M ELI @ 5, 7 DS; 68.6M ELI @ 8-10 DS; 70.5M ELI @ 9 DS; 72.4M ELI @ 8-4 DS; 75.3M EL @ 9-11 DS; 76.3M ELI @ 8-10 DS; 77.1M EL @ 10-12 DS; 79.0M EL @ 12-2 DS; 79.9M ELI @ 8-4 DS; 81.9M ELI @ 8-2 DS; 85.0M ELI(CN) @ 9-12 DS; 85.7M ELI @ 4 DS; 87.6M EL @ 4, 8-11 DS; 91.3M ELI @ 8-4 DS; 93.1M ELI @ 8, 2-4 DS; 95.0M ELI @ 2-4 DS; 96.1M EL @ 11-12 DS; 97.9M ELI(CN) @ 2-4 DS; 100.7M ELI @ 8-10 DS; 101.6M EL @ 12-3 DS; 102.3M ELI @ 1-2 DS;				
12287	23	S-MA00018268	SUTHERLAND	MH AT SYNDICATE TO 1ST MH W OF SYNDICATE	S-MH00014067	3.00	S-MH00014066	3.10	17.5	900/1100*		CIRCULAR	COMBINED	CO-CONCRETE	NO	0								1.0	1.0-9.5M DEG @ 10-2 US; 13.5-15.7M DEG @ 9-3 US;	1		1	2.91M ELI @ 8-4 US;				
12288	24	S-MA70030750/49	SUTHERLAND	1ST MH W OF SYNDICATE TO MH AT ANNABELLA	S-MH00014066	3.10	S-MH00012506	3.65	202.3	1100		CIRCULAR	COMBINED	CO-CONCRETE	NO	2			1		83.3M CROSSBORE @ 11:00-1:00 DS			1.0	0.25-2.3M DEG @ 10-2 US; 2.3M RF @ 2-4 US; 2.4-15.0M DEG @ 10-2 US; 15.0-16.7M RF @ 10, 2 US; 18.6M DEG @ 10-2 US; 21.3M RF @ 7-4 US; 31.8M RF @ 2-4 US; 35.2M RF @ 2-4 US; 44.4-46.0M RF @ 8-10, 2-4 US; 46.0-48.7M DEG @ 11-2 US; 51.3M RF @ 8-10 US; 53.4-57.8M RF @ 10-2 US; 57.9-60.5M DEG @ 10-2 US; 64.4-73.2M RF @ 8-10, 2-4 US; 77.2M RF @ 2-4 US; 85.6-92.7M RF @ 10-2 US; 92.9M DEG @ 9-2 US; 93.3-98.8M RF @ 10, 2 US; 102.8-105.7M RF @ 2 US; 105.8M DEG @ 8-2 US; 107.6-110.9M RF @ 10, 2 US; 114.0-116.4M RF @ 8-10, 2-4 US; 118.5-120.1M RF @ 8-10, 2-4 US; 121.1M RF @ 8-10 US; 122.4C19.2M RF @ 8-10, 2-4 US; 130.9-135.4M RF @ 2-4 US; 138.3M RF @ 2 US; 141.2-144.0M RF @ 2-4 US; 146.1M RF @ 2 US; 150.5M RF @ 8-10 US; 156.3M RF @ 8-10 US; 158.6-162.7M RF @ 8-10, 2-4 US; 163.7M DEG @ 9-3 US; 167.2-174.5M RF @ 8-10, 2 US; 180.1M RF @ 8-10, 2 US; 182.7M DEG @ 8-4 US; 188.9M DEG @ 8-7 US;	1	33.8	1.0	0.0-3.2M EL @ 2-4 US; 17.0-18.6M EL @ 2-4 US; 66.6-70.6M EL @ 3-4 US; 71.5-73.3M EL @ 3:00 US; 76.2-82.2M EL @ 2-4 US; 90.7-93.7M EL @ 2-4 US; 96.9-99.6M EL @ 2-4 US; 105.4-110.7M EL @ 2-4 US; 137.1-138.3M EL @ 2-4 US				
12289	25	S-MA00013978	SUTHERLAND	MH AT GOMEZ ST N TO MH AT ANNABELLA ST	S-MH00012506	3.65	S-MH00012545	3.95	167.4	1100		CIRCULAR	COMBINED	CO-CONCRETE	NO	0			1		86.0M CROSSBORE @ 10:00-2:00 DS			1.0	0.0 DEG @ 10-1 US; 0.3 M RF @ 9 US; 10.9M RF @ 8-10 US; 17.9M RF @ 10, 2 US; 23.0M RF @ 8-10 US; 30.8M RFI @ 3-4 US; 46.6M RF @ 10, 2 US; 61.1M RF @ 10 US; 82.1M RF @ 12 US; 92.0M RF@ 10, 2 US; 97.6M RFI @ 8-10, 2 US; 104.7M RF @ 10 US; 109.3M RFI @ 2-4 US; 114.4M RF @ 8-10 US; 117.2M RF @ 8-10, 2-4 US; 123.2M RF @ 10, 2-4 US; 142.5M RF @ 8-10 US; 151.4M RF @ 10 US;	1			73.2M ELI @ 11-4 US; 91.4M ELI @ 8-4 US; 97.5M ELI @ 8-4 US; 103.7 ELI @ 9-12 US; 109.4 ELI @ 2-4 US; 121.9 ELI @ 8-4 US; 127.9 ELI @ 12-4 US;				
12290	26	S-MA00014038	SUTHERLAND	1ST MH E OF GOMEZ TO MH AT EUCLID	S-MH00012545	3.95	S-MH00012518	5.30	178.2	1100		CIRCULAR	COMBINED	CO-CONCRETE	NO	0			1		24.0m H (MISSING BRICKS) @ 10-2 DS			1.0	16.4-25.1M RF @ 8-10, 2-4 US; 31.0 M RF @ 8-10 US; 32.2M RF @ 10, 2 US; 43.0M RF @ 8-10 US; 61.2M RF @ 10 US; 69.2M RF @ 9-3 US; 73.7M RF @ 9-3 US; 76.9M RF @ 9-10 US; 84.8-88.1M RF @ 8-10 US; 96.6M RFI @ 8-10 US; 104.7M RF @ 10 US; 109.6M RF @ 8-10 US; 152.1M RFI @ 10 US;	1	3.7	20	3.8M ELI @ 8-2 US; 10.0M ELI @ 8-12 US; 26.6M ELI @ 8-3 US; 28.4M ELI @ 8-12 US; 37.8M ELI @ 8-12 US; 42.2M ELI @ 8-3 US; 43.5M EL @ 3:00 US; 48.0M ELI @ 8-3 US; 53.0M ELI @ 8-4 US; 66.6M ELI @ 9-3 US; 78.3M ELI @ 9-10 US; 79.2M EL @ 3-4 US; 83.6 EL @ 3-4 US; 84.6M ELI @ 12-4 US; 96.7M ELI @ 9-12 US; 97.6-99.2M EL @ 8-9 US; 106.9-108.5M EL @ 2-4 US; 108.3-110.9M EL @ 8-10 US; 113.5-114.5M EL @ 3:00 US; 118.6-120.1M EL @ 8:00 & 2-4:00 US; 124.0M EL @ 8-4 US; 127.1M ELI @ 8-4 US; 133.4M ELI @ 9-3 US; 143.3M ELI @ 9&3 US; 152.2M ELI @ 8-11 US;				
12291	27	S-MA00013929	SUTHERLAND	MH AT SUTHERLAND ST TO MH AT DISRAELI ST	S-MH00012518	5.30	S-MH00012444	6.20	181.9	1100		CIRCULAR	COMBINED	CO-CONCRETE	NO	0								1.0	26.2M RFI @ 8-10 US; 32.0M RF @ 1 US; 35.8M RF @ 1 US; 50.2M RF @ 11-1 US; 63.8M RF @ 12 US; 78.7M RF @ 11 US; 80.3M RF @ 10 US; 82.1M RF @ 1 US; 100.0M RFI @ 11 US; 153.3M RF @ 9 US; 158.7M RF @ 8-10 US; 161.5M RF @ 1-3 US; 166.4M RF @ 2-4 US; 169.0M RFI @ 8-10, 2 US; 173.3-180.2M S, 1-3 US;	1	3.1	17	2.2M ELI @ 12-4 US; 6.8M EL @ 3-4 US; 22.9M EL @ 8-9 US; 26.5M ELI @ 8-3 US; 55.8-57.0M EL @ 8-11 & 1-4 US; 67.2M ELI @ 8-4 US; 87.9M ELI @ 8-4 US; 103.5M ELI @ 9-3 US; 106.4M ELI @ 9-12 US; 125.0M ELI @ 12-4 US