

Appendix B - Design Conditions

DWG	Sheet	Sewer Asset	Street Name	Sewer Details										Design Conditions					
				Location	Manholes				Length	Height	Width	Shape	Flow Type	Material	Installation of New MH's	Max Depth	Pre EPR Ovality	Post EPR Ovality	PD/FD ¹
					Upstream	Depth	Downstream	Depth											
12948	3	S-MA70018696	ASHLAND AVE	1ST MH E OF MABEL ST - MH AT ECCLES ST (WPL)	S-MH60011634	5.6	S-MH70006815	5.2	76.6	375	375	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		5.6	2%		FD
12949	4	S-MA60019859	BALDRY BAY (S PL) (S LEG)	2ND MH W OF CORNELL DR TO 3RD MH W OF CORNELL DR	S-MH60017259	3.0	S-MH60017260	3.6	71.0	200	200	CIRCULAR	SANITARY	CO-CONCRETE		3.6	2%		PD
12950	5	S-MA60017661	BUXTON RD	2ND MH S CRANE AV - 1ST MH S CRANE AV	S-MH60015284	3.8	S-MH60015296	4.5	76.1	250	250	CIRCULAR	SANITARY	VC-VITRIFIED CLAY		4.5	2%		FD
12951	6	S-MA60012885	BYNG PL	1ST MH E OF ROCKMAN ST TO MH AT ROCKMAN ST	S-MH60011048	3.3	S-MH60011041	3.7	70.0	200	200	CIRCULAR	SANITARY	CO-CONCRETE		3.7	2%		FD
12952	7	S-MA60010068	CAMBRIDGE ST	MH AT CORYDON AV TO 1ST MH N OF CORYDON AV	S-MH60009462	2.6	S-MH60008431	2.9	66.9	300	300	CIRCULAR	COMBINED	CO-CONCRETE		2.9	2%		FD
12953	8	S-MA60012315	CHURHILL DR	4TH MH W OF OSBORNE ST TO MH AT MONTAGUE AV	S-MH60010513	5.4	S-MH60010514	6.0	110.7	450	450	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		6.0	9%	2%	FD
12954	9	S-MA60010655	CORYDON AVE	MH AT DALY ST N (E PL) TO 1ST MH E OF DALY ST N	S-MH60008946	3.6	S-MH60008930	3.6	71.4	300	300	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		3.6	5%		FD
12955	10	S-MA60010636	CORYDON AVE	1ST MH E OF DALY ST N TO 2ND MH E OF DALY ST N	S-MH60008930	3.0	S-MH60008931	3.6	37.0	300	300	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		3.6	9%	6%	FD
12956	11	S-MA60017526	CROWSON BAY (S. LEG)	MH @ CROWSON BY (WLG) TO MH @ CROWSON BY (ELG)	S-MH60015154	2.5	S-MH60015196	3.5	96.5	200	200	CIRCULAR	SANITARY	VC-VITRIFIED CLAY		3.5	2%		PD
12957	12	S-MA60010564	DORCHESTER AVE	1ST MH W OF HARROW ST TO MH AT HARROW ST	S-MH60008808	5.3	S-MH60008912	5.7	86.7	450	450	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		5.7	2%		FD
12958	13	S-MA60017651	DOWKER AVE	MH AT LYON ST - 1ST MH W OF LYON ST	S-MH60015275	2.5	S-MH60015317	2.8	53.6	200	200	CIRCULAR	SANITARY	VC-VITRIFIED CLAY		2.8	2%		PD
12959	14	S-MA60022778	DUCHARME AVE	1STMH E OF HOUEDEDR(WLG)TO2NDMH E OF HOUEDEDR(WLG)	S-MH60019111	3.5	S-MH60019112	3.7	92.0	250	250	CIRCULAR	SANITARY	CO-CONCRETE		3.7	2%		FD
12960	15	S-MA60009621	DUDLEY AVE	MH AT STAFFORD ST TO 1ST MH W OF WENTWORTH ST	S-MH60007988	4.0	S-MH60007993	3.9	87.0	375	375	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		4.0	2%		FD
12961	16	S-MA60012899	EDDERTON AVE	1ST MH W OF WYNNE ST TO MH AT ROCKMAN ST	S-MH60011050	2.9	S-MH60011056	3.7	91.9	200	200	CIRCULAR	SANITARY	CO-CONCRETE		3.7	2%		PD
12962	17	S-MA60016890	FENNELL ST	2ND MH S OF SEEL AV TO 1ST MH S OF SEEL AV	S-MH60014609	5.5	S-MH60014551	5.7	100.5	375	375	CIRCULAR	SANITARY	CO-CONCRETE		5.7	2%		FD
12963	18	S-MA60017454	FLETCHER CR (CL)	1ST MH E OF PEMBINA HW TO 2ND MH E OF PEMBINA HW	S-MH60015085	2.7	S-MH60015084	2.8	71.0	200	200	CIRCULAR	SANITARY	VC-VITRIFIED CLAY		2.8	2%		PD
12964	19	S-MA60019919	FORDHAM BAY (S LEG)	1ST MH E OF CORNELL DR TO MH AT CORNELL DR	S-MH60017306	3.7	S-MH60017296	6.1	82.7	200	200	CIRCULAR	SANITARY	CO-CONCRETE		6.1	9%		FD
12965	20	S-MA60011528	HECTOR BY E (E LEG)	1ST MH S OF HECTOR AV TO 2ND MH S OF HECTOR AV	S-MH60009798	3.7	S-MH60009776	4.6	58.5	450	450	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		4.6	2%		PD
12966	21	S-MA60004562	HOSMER BLVD	2ND MH N OF MOUNTBATTEN AV TO MH AT CUTHBERTSON AV	S-MH60003358	4.4	S-MH60003076	4.3	92.0	450	450	CIRCULAR	SANITARY	VC-VITRIFIED CLAY		4.4	2%		PD
12967	22	S-MA60017289	HOWARD AVE	1ST MH E OF HUDSON ST TO MH AT HUDSON ST EPL	S-MH60014918	3.4	S-MH60014912	4.4	113.6	200	200	CIRCULAR	SANITARY	XXX-OTHER		4.4	2%		PD
12968	23	S-MA60004179	KELVIN BV	1ST MH N OF CUTHBERTSON AV - MH @ CUTHBERTSON AV	S-MH60003053	4.5	S-MH60002994	4.3	91.4	300	300	CIRCULAR	SANITARY	CO-CONCRETE		4.5	2%		PD
12969	24	S-MA70054972	KINGSWAY (CL)	1ST MH W OF LANARK ST TO MH AT LANARK ST (W OF CL)	S-MH60006423	3.8	S-MH60006519	4.2	104.2	300	300	CIRCULAR	COMBINED	CO-CONCRETE	Install new MH at the drop pipe location as per the Specifications and Drawings	4.2	16%		FD
12970	25	S-MA60007996	LANARK ST	2NDMHNOFGROSVENORAVE-3RDMHNOFGROSVENORAVE	S-MH60006510	5.0	S-MH60006523	5.5	96.0	375	375	CIRCULAR	COMBINED	CO-CONCRETE		5.5	7%		FD
12971	26	S-MA60006765	LANARK ST	3RD MH N OF KINGSWAY TO 4TH MH N OF KINGSWAY	S-MH60005380	4.0	S-MH60005395	4.0	72.2	450	450	CIRCULAR	COMBINED	CO-CONCRETE		4.0	11%		FD
12972	27	S-MA60006768	LINDSAY ST	2ND MH N OF KINGSWAY TO 3RD MH N OF KINGSWAY	S-MH60005382	4.7	S-MH60005472	5.4	97.1	450	450	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		5.4	6%		FD
12973	28	S-MA60008057	LINDSAY ST	3RD MH N OF CORYDON AV TO 4TH MH N OF CORYDON AV	S-MH60006570	5.1	S-MH60006582	5.8	97.1	450	450	CIRCULAR	COMBINED	CO-CONCRETE		5.8	2%		FD
12974	29	S-MA60017959	MARSHALL CR (W LEG)	MH AT MARSHALL CR NLEG TO 1ST MH N OF CLARENCE A	S-MH60015631	3.2	S-MH60015611	3.1	69.7	200	200	CIRCULAR	SANITARY	VC-VITRIFIED CLAY		3.2	2%		FD
12975	30	S-MA60017961	MARSHALL CRES (N LEG)	MH AT MARSHALL CR WLEG TO 1ST MH W OF DONNELLY S	S-MH60015561	3.1	S-MH60015623	3.6	84.7	200	200	CIRCULAR	SANITARY	VC-VITRIFIED CLAY		3.6	2%		FD
12976	31	S-MA60012280	NASSAU ST S	MH @ RATHGAR AVE - MH @ WALKER AVE	S-MH60010479	4.3	S-MH60010473	5.3	78.7	300	300	CIRCULAR	COMBINED	CO-CONCRETE		5.3	5%	5%	FD
12977	32	S-MA60017394	OAKENWALD AVE	3RD MH W OF WOODGROVE ST TO 2ND MH W OF WOODGROV	S-MH60015024	3.2	S-MH60015046	3.7	88.9	200	200	CIRCULAR	SANITARY	VC-VITRIFIED CLAY		3.7	2%		FD
12978	33	S-MA60005579	QUEENSTON ST	2ND MH N OF GRANT AV TO 3RD MH N OF GRANT AV	S-MH60004255	4.3	S-MH60004244	5.1	96.6	450	450	CIRCULAR	COMBINED	CO-CONCRETE		5.1	2%		PD
12979	34	S-MA60020925	RADCLIFFE RD	MH AT OBERLIN RD TO 1ST MH E OF OBERLIN RD	S-MH60017208	3.0	S-MH60017978	3.9	58.5	200	200	CIRCULAR	SANITARY	CO-CONCRETE		3.9	2%		PD
12980	35	S-MA60013113	RIVERSIDE DR	MH AT MERRIAM BV TO 1ST MH S OF MERRIAM BV	S-MH60011284	3.4	S-MH70003362	4.3	80.7	200	200	CIRCULAR	SANITARY	VC-VITRIFIED CLAY		4.3	2%		FD
12981	36	S-MA60020774	ROSLYN CR	1ST MH W OF ROSLYN CR (E LEG) TO MH AT ROSLYN CR (E LEG)	S-MH60017917	3.2	S-MH60017914	3.5	27.6	300	300	CIRCULAR	COMBINED	CO-CONCRETE		3.5	7%		FD
12982	37	S-MA60017641	RUTTAN BAY (S LEG)	MH AT RUTTAN BY W LEG TO 1ST MH E OF RUTTAN BY W	S-MH60015263	3.3	S-MH60015313	3.8	21.2	300	300	CIRCULAR	SANITARY	VC-VITRIFIED CLAY		3.0	2%		FD
12983	38	S-MA60017640	RUTTAN BAY (S LEG)	1ST MH E OF RUTTAN BY W LEG TO MH AT RUTTAN BY E	S-MH60015262	3.1	S-MH60015313	3.8	91.0	200	200	CIRCULAR	SANITARY	VC-VITRIFIED CLAY		3.8	9%		FD
12984	39	S-MA60018996	RYERSON AVE	MH AT MIAMI PL TO 1ST MH N OF MIAMI PL	S-MH60016421	3.5	S-MH60016449	3.9	83.8	200	200	CIRCULAR	SANITARY	VC-VITRIFIED CLAY		3.8	11%		FD
12985	40	S-MA60016977	SATURN BAY (W LEG)	MH @ SATURN BY NLEG - MH @ SATURN BAY (WLEG)	S-MH60014612	2.6	S-MH60014639	2.8	80.6	200	200	CIRCULAR	SANITARY	CO-CONCRETE		2.8	2%		PD
12986	41	S-MA60016978	SATURN BAY (N LEG)	MH AT SATURN BY (WLG) TO 1ST MH W OF PLANET ST	S-MH60014612	2.6	S-MH60014635	3.2	71.9	200	200	CIRCULAR	SANITARY	CO-CONCRETE		3.9	2%	2%	PD
12987	42	S-MA60012797	SOMERVILLE AVE	MH AT DANIEL ST EPL TO 1ST MH E OF DANIEL ST	S-MH60010961	2.3	S-MH60010980	3.3	97.4	200	200	CIRCULAR	SANITARY	CO-CONCRETE		3.2	2%		FD
12988	43	S-MA60017223	SOUTHWOOD AVE	2ND MH W OF DANIEL ST - 1ST MH W OF DANIEL ST	S-MH60014847	2.1	S-MH60014862	2.3	78.9	200	200	CIRCULAR	SANITARY	VC-VITRIFIED CLAY		3.3	2%		FD
12989	44	S-MA60021995	ST PIERRE ST	3RD MH S OF ST THERESE AV TO 2ND MH S OF ST THERESE AV	S-MH60018656	2.9	S-MH60018655	3.1	108.8	200	200	CIRCULAR	SANITARY	CO-CONCRETE		2.3	2%		PD
12990	45	S-MA60009558	WARSAW AVE (AT STAFFORD ST)	1ST MH W OF STAFFORD ST O MH AT STAFFORD ST (CL)	S-MH60007932	3.0	S-MH60007942	3.6	79.9	300	300	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		3.6	4%		FD
12991	46	S-MA60009569	STAFFORD ST	MH AT JESSIE TO MH AT WARSAW	S-MH60007942	3.5	S-MH60007946	7.5	99.5	300	300	CIRCULAR	COMBINED	CO-CONCRETE		4.7	2%		PD
12992	47	S-MA60011878	STAFFORD ST	MH AT PEMBINA HW TO 1ST MH N OF PEMBINA HW	S-MH60010098	4.0	S-MH60010095	4.7	60.1	300	300	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		2.9	2%		FD
12993	48	S-MA60011876	STAFFORD ST	1ST MH N OF PEMBINA HW TO 2ND MH N OF PEMBINA HW	S-MH60010095	2.8	S-MH60010093	2.9	31.0	300	300	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		3.0	2%		PD
12994	49	S-MA60011872	STAFFORD ST / ROW S OF TAYLOR AVE	MH AT PEMBINA HW TO 2ND MH N OF PEMBINA HW ON STAFFORD ST	S-MH60010103	2.3	S-MH60010093	3.0	69.6	300	300	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		3.6	2%		FD
12995	50	S-MA60011837	STAFFORD ST	3RD MH N OF PEMBINA HW TO 1ST MH N OF TAYLOR AV	S-MH60010104	2.9	S-MH60010063	2.7	82.7	300	300	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		4.0	2%		FD
12996	51	S-MA60011838	STAFFORD ST	1ST MH N OF TAYLOR AV TO MH AT JACKSON AV	S-MH60010063	2.9	S-MH60010066	3.0	35.9	300	300	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		6.4	2%		FD
12997	52	S-MA60011841	STAFFORD ST	MH AT JACKSON AV TO 1ST MH N OF JACKSON AV	S-MH60010066	3.2	S-MH60010056	3.6	44.7	300	300	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		2.9	2%		FD
12998	53	S-MA60011844	STAFFORD ST	1ST MH N OF JACKSON AV TO MH AT EBBY AV	S-MH60010056	3.6	S-MH60010087	4.0	39.6	375	375	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		3.1	14%		FD
12999	54	S-MA70030347	STRADBROOK AVE	1ST MH E OF DONALD ST TO MH AT DONALD ST	S-MH60017533	5.7	S-MH60017525	6.4	91.3	300	300	CIRCULAR	COMBINED	XXX-OTHER		6.9	2%		FD
13000	55	S-MA60011674	TAYLOR AV	1ST MH W OF STAFFORD ST TO MH AT HARROW ST	S-MH60009981	3.9	S-MH60009909	6.9	62.6	375	375	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		3.0	2%		PD
13001	56	S-MA60015704	TULANE BAY (N LEG)	MH @ TULANE BY ELEG - MH @ TULANE BY WLEG	S-MH60013429	3.0	S-MH60013428	3.0	85.4	200	200	CIRCULAR	SANITARY	CO-CONCRETE		3.7	2%		FD
13002	57	S-MA60022792	VILLENEUVE BV	1ST MH S DUCHARME AV - MH @ DUCHARME AV	S-MH60019125	3.2	S-MH60019115	3.7	79.3	200	200	CIRCULAR	SANITARY	CO-CONCRETE		2.9	2%		PD

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					Upstream	Depth	Downstream	Depth											
13003	58	S-MA60017074	VINCENT ST	1ST MH S OF MCGILLVARY PL TO MH AT MCGILLVARY PL	S-MH60014705	2.8	S-MH60014711	2.9	64.9	200	200	CIRCULAR	SANITARY	VC-VITRIFIED CLAY		5.4	2%		FD
13004	59	S-MA60020283	WARDLAW AVE	MH AT DONALD ST TO 1ST MH E OF DONALD ST	S-MH60017539	4.30	S-MH60017536	5.2	92.1	375	375	CIRCULAR	COMBINED	CO-CONCRETE		5.4	2%		FD
13005	60	S-MA60008687	WAVERLEY ST	1ST MH N OF GROSVENOR AV TO MH AT GROSVENOR AV (CL)	S-MH60007105	3.2	S-MH60007116	5.6	88.6	450	450	CIRCULAR	COMBINED	CO-CONCRETE		5.6	14%		FD
13006	61	S-MA60011639	WEATHERDON AVE	MH AT GUELPH ST TO 1ST MH E OF GUELPH ST	S-MH60009876	4.2	S-MH60009871	4.5	86.7	375	375	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		4.5	10%		FD
13007	62	S-MA60003623	WEXFORD ST	1ST MH N OF CITY AV TO 2ND MH N OF CITY AV	S-MH60002619	3.9	S-MH60002623	4.8	106.6	200	200	CIRCULAR	SANITARY	VC-VITRIFIED CLAY		4.8	2%		FD
13008	63	S-MA60013040	WICKLOW ST	MH AT SOMERSET AV TO MH AT NORTH DR	S-MH60011206	3.8	S-MH60011201	4.5	86.4	200	200	CIRCULAR	SANITARY	VC-VITRIFIED CLAY		4.5	5%		FD
13009	64	S-MA60013383	WILDWOOD B OK (W LEG)	1ST MH N WILDWOOD BPK SLEG-2ND MH W WILDWOOD BPK	S-MH60011564	2.3	S-MH60011512	2.4	58.3	200	200	CIRCULAR	SANITARY	CO-CONCRETE		2.4	6%	2%	FD
13010	65	S-MA60013378	WILDWOOD B PK (N LEG)	1ST MH W NORTH DR - MH @ WILDWOOD BPK WLEG	S-MH60011510	2.5	S-MH60011563	2.7	47.5	200	200	CIRCULAR	SANITARY	CO-CONCRETE		2.7	2%		FD
13011	66	S-MA60013352	WILDWOOD D PK (W LEG)	1ST MH S OF OAKENWALD AV-MH AT OAKENWALD AV	S-MH60011489	2.4	S-MH60011484	3.8	82.1	200	200	CIRCULAR	SANITARY	CO-CONCRETE		3.8	2%		PD
13012	67	S-MA60013361	WILDWOOD J PK (N LEG)	1ST MH E OF SOUTH DR TO MH AT SOUTH DR CL	S-MH60011503	2.8	S-MH60011496	3.8	58.5	200	200	CIRCULAR	SANITARY	CO-CONCRETE		3.8	2%		PD
13013	68	S-MA70036673	WINDERMERE AV (CL)	1ST MH E OF PEMBINA HW TO 2ND MH E OF PEMBINA HW	S-MH60011106	4.8	S-MH60011147	4.8	90.9	300	300	CIRCULAR	SANITARY	CO-CONCRETE		4.8	3%		FD
13014	69	S-MA60002059	WOODFIELD BY (W LEG)	MH@WOODFIELDBY(NLG)TO1STMH S OF WOODFIELDBY(NLG)	S-MH60001543	4.3	S-MH60000150	4.2	63.2	250	250	CIRCULAR	SANITARY	CO-CONCRETE		4.3	2%		PD
13015	70	S-MA60010165	YALE AVE	MH AT CAMBRIDGE ST (E PL) (N OF CL) TO 1ST MH W OF ROCKWOOD ST	S-MH60008501	2.8	S-MH60008571	2.7	61.9	300	300	CIRCULAR	COMBINED	VC-VITRIFIED CLAY		2.8	9%		FD

¹Partially Deteriorated/Fully Deteriorated