

## **APPENDIX 'E'**

# **UNDERDRAIN CONDITIONS AND REPAIR WORK PROGRAM**

Project: Branch I Aqueduct Underdrain Outfall Repairs  
Tender #: 694-2024  
Appendix E - Underdrain Conditions and Repair Work Program

Asset Number	Drawing #	Sheet #	Street Name	Location Details	Sewer Details										Pre-Lining Prep Work				General Observations	Work Program						Required CCTV Inspections							
					Manholes					Pre-Lining Prep Work					CIPP Lining		EPR			TPR		Pre-Repair		Pre-Lining / Post-EPR		Post-Lining		Warranty					
					Upstream	Depth (m)	Downstream	Depth (m)	Segment Length (m)	1st 3m (each)	>3 m (m)	Joints (each)	Description	Req'd	Length (m)	Req'd	Location	Req'd		Location	Length (m)	Req'd	Length (m)	Req'd	Length (m)	Req'd	Length (m)	Req'd	Length (m)				
					Height (mm)	Width (mm)	Shape	Flow Type	Material					Description																			
AQ-U00000371	1-0751N-C0003-01	5	Avenue Tache Outfall	AVENUE TACHE FROM 1ST UMH E. OF RUE MESSAGER TO NEW UMH W. OF RUE MESSAGER	UMH110-0001	7.36	New MH	8.65	52.0	200	200	Circular	Underdrain	VCP				No inspection beyond 13.5m D/S. New MH req'd at ~52.0m D/S prior to lining.	Yes	52.0	No	N/A	No	N/A	N/A	Yes	52.0	Yes	52.0	Yes	52.0	Yes	52.0
AQ-U00000139	1-0751N-C0003-01	5	Avenue Tache	AVENUE TACHE FROM 2ND UMH E. OF RUE MESSAGER TO 1ST UMH E. OF RUE MESSAGER.	UMH110-0032	7.15	UMH110-0001	7.36	33.5	200	200	Circular	Underdrain	VCP				No inspection beyond 28.9m D/S.	Yes	33.5	No	N/A	No	N/A	N/A	Yes	33.5	Yes	33.5	Yes	33.5	Yes	33.5
AQ-U00000391	1-0751N-C0001-01 1-0751N-C0012-01	3; 15	Rue Plinguet	RUE PLINGUET FROM MH AT MCTAVISH ST TO NEW MH AT RIVERBANK	UMH117-0226	6.86	New MH	8.00	202.5	200	200	Circular	Underdrain	VCP				New MH req'd at ~202.5m D/S prior to lining. No inspection beyond ~185 m D/S.	Yes	202.5	No	N/A	No	N/A	N/A	Yes	202.5	Yes	202.5	Yes	202.5	Yes	202.5
AQ-U00000167	1-0751N-C0005-01 1-0751N-C0012-01	8; 15	Rue Notre Dame	RUE NOTRE DAME FROM NEW MH AT MAISONNEUVE ST TO FIRST UMH W. OF MAISONNEUVE ST.	UMH115-0025	5.15	UMH114-0227	2.31	113.5	200	200	Circular	Underdrain	VCP				EPR and CIPP req'd for online repair Option 1 only. CIPP Lining from new MH to UMH114-0227 only. Refer to Dwg 8.	Provisional Yes (Option 1)	25.5	Provisional Yes (Option 1)	20.5-21.5 m US	No	N/A	N/A	Yes	113.5	Yes	25.5	Yes	25.5	Yes	25.5
AQ-U00000173	1-0751N-C0012-01	15	Rue Notre Dame	RUE NOTRE DAME FROM 1ST UMH WEST OF ARCHIBALD ST TO 1ST UMH WEST OF LA FLECHE ST	UMH115-0295	4.15	UMH115-0143	4.19	152.5	200	200	Circular	Underdrain	VCP				Piezometer installed through Underdrain pipe. Remove and repair Underdrain.	No	N/A	Yes	141.0-142.0 m DS	No	N/A	N/A	Yes	152.5	Yes	152.5	No	0.0	No	0.0
AQ-U00000174	1-0751N-C0012-01	15	Rue Notre Dame	EXTN. OF RUE NOTRE DAME FROM 1ST UMH WEST OF MCTAVISH ST TO CS MH AT ARCHIBALD ST.	UMH116-0091	4.36	S-MH50008084	5.44	102.0	200	200	Circular	Underdrain	VCP	1	3		U/S MH UMH116-0091 located on private property. D/S MH modifications req'd. Refer to Dwg 10. Connection to S-MH50008084 to be abandoned w/ connection to UMH115-0295 - resulting asset length 140 m.	No	N/A	No	N/A	Yes	7.4-8.4 m, 10.4-11.9 m, 17.5-19.0 m, 19.4-20.4 m, 22.0-23.0 m, 24.0-25.0 m, 69.0-70.0 m, 84.3-85.3 m, 91.6-92.6 m DS	10.0	Yes	102.0	Yes	140.0	Yes	140.0	Yes	140.0
AQ-U00000443	1-0751N-C0012-01	15	McTavish Street	MCTAVISH ST FROM 1ST UMH S. OF EXTN. OF RUE NOTRE DAME TO UMH AT EXTN. OF RUE NOTRE DAME.	UMH116-0108	4.26	UMH116-0091	4.36	16.5	200	200	Circular	Underdrain	VCP					No	N/A	No	N/A	Yes	2.6-4.6 m DS	2	Yes	16.5	Yes	16.5	Yes	16.5	Yes	16.5
AQ-U00000453	1-0751N-C0012-01	15	McTavish Street	MCTAVISH ST FROM 1ST UMH S. OF EXTN. OF RUE NOTRE DAME TO UMH AT EXTN. OF RUE NOTRE DAME.	UMH117-0133	4.00	UMH117-0170	4.48	37.0	200	200	Circular	Underdrain	VCP				Existing EPR at U/S MH 0.0 to approx. 1.5m D/S.	No	N/A	No	N/A	Yes	1.7-2.9 m DS	1.25	Yes	37.0	Yes	37.0	Yes	37.0	Yes	37.0
AQ-U00000181	1-0751N-C0012-01 1-0751N-C0013-01	15; 16	Dawson Road	DAWSON ROAD FROM 1ST UMH WEST OF MESSIER ST TO NEW MH EAST OF MESSIER ST.	UMH119-0003	4.47	New MH	4.45	112.0	200	200	Circular	Underdrain	VCP				Missing pipe and void at U/S MH. PVC sleeve with TPR required. Refer to Dwg. 16.	No	N/A	No	N/A	Yes	0.0-1.0 m DS	1.0	Yes	112.0	Yes	112.0	No	0.0	No	0.0
AQ-61000010	1-0751N-C0008-01 1-0751N-C0012-01	11; 15	Dawson Road	DAWSON ROAD FROM 1ST UMH EAST OF MESSIER ST TO 2ND MH EAST OF MESSIER ST.	UMH119-0114	4.45	UMH119-0137	4.69	22.5	200	200	Circular	Underdrain	VCP					No	N/A	No	N/A	No	N/A	0.0	Yes	22.5	No	0.0	No	0.0	No	0.0