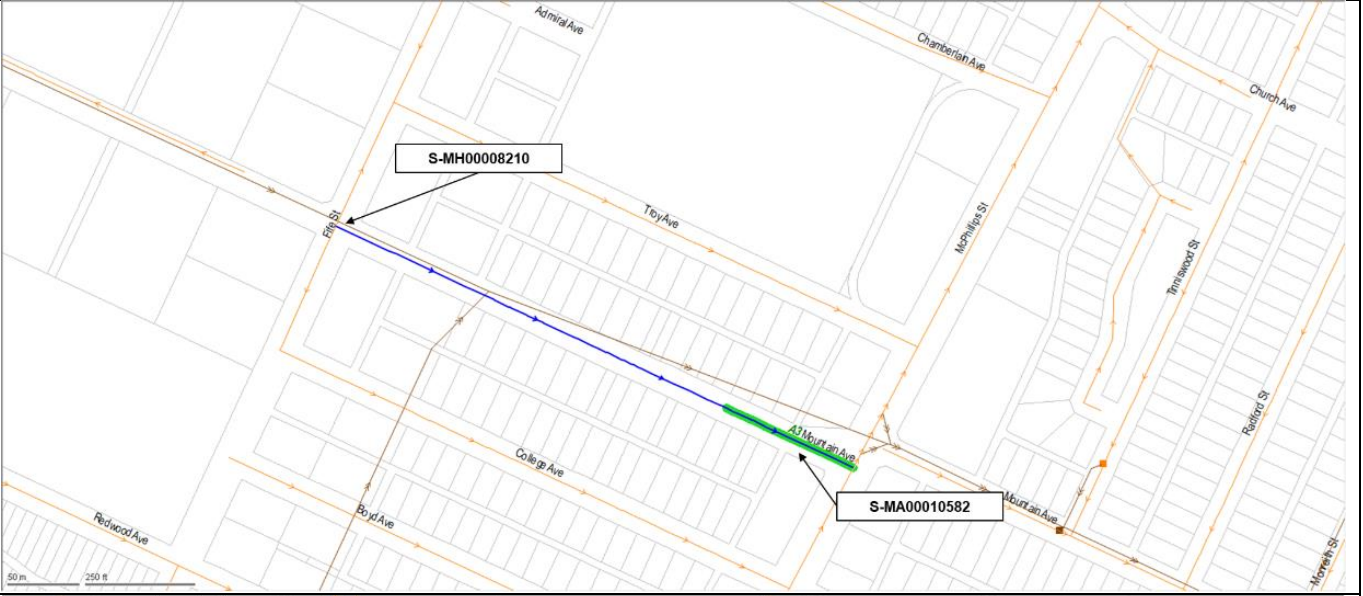
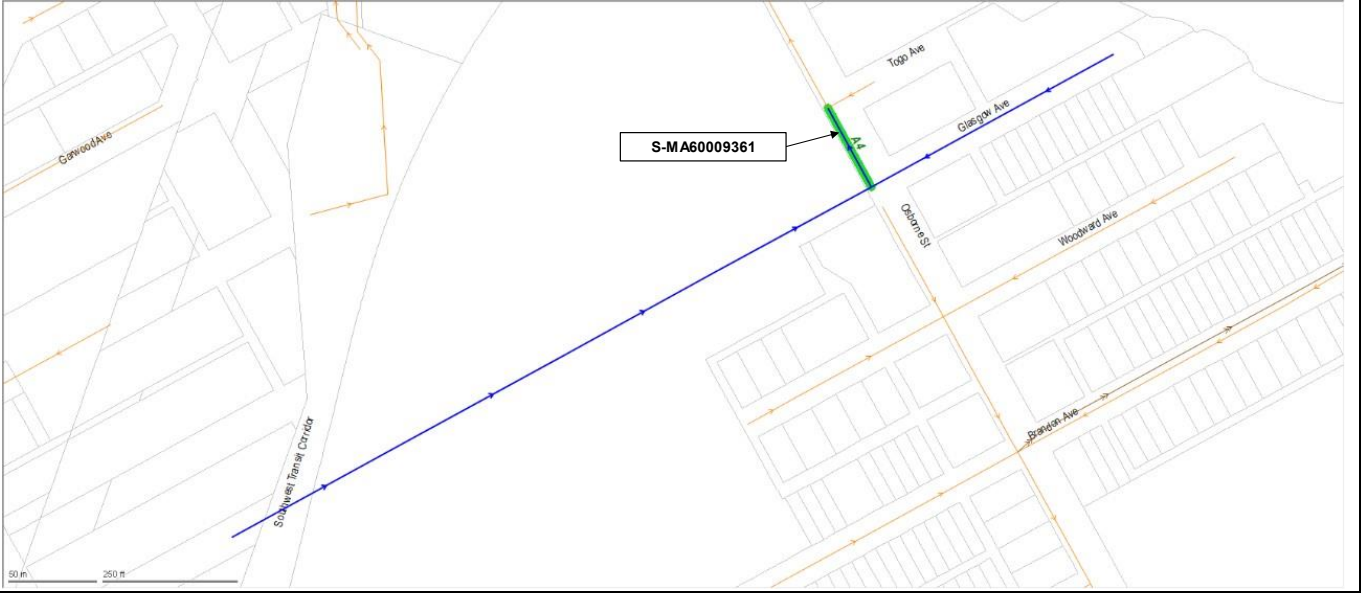


APPENDIX 'D'

**COMBINED SEWER OVERFLOW REVIEW
AND BYPASS PUMPING**

Asset Number	Street Name	Upstream Invert (m)	Drainage Area (ha)	Average DWF (L/s)	Overflow Node ID	Overflow Water Level (m)	Overflow Description & Comments	Map
S-MA20013350	ALEXANDER AV	223.81	151.4	34.53	S-AC70009956	224.94	Backed up flow will surcharge to river outfall and discharge to the Red River. Overflow elevation set by weir on Galt Av at Duncan St.	
S-MA60021589	DALY ST N	224.1	62.8	13.22	S-TE60008497	226.6	Overflow to the Storm Relief Sewer (SRS) at S-TE60008497 at McMillan Ave/Hugo St N. Flows discharge back into the combined system at Jessie Ave/Hugo St N.	

Asset Number	Street Name	Upstream Invert (m)	Drainage Area (ha)	Average DWF (L/s)	Overflow Node ID	Overflow Water Level (m)	Overflow Description & Comments	Map
S-MA00010582	MOUNTAIN AV.	226.550	3.8	0.73	S-MH00008210	228.32	Overflow to the combined system at S-MH00008210 at Fife St/Mountain Ave.	 A map of the Mountain Ave area in Winnipeg. It shows a network of streets including Fife St, Tey Ave, Chamberlain Ave, Church Ave, Ross St, Balfour St, Moore St, Mountain Ave, College Ave, Boyd Ave, Redwood Ave, and Admiral Ave. A blue line with arrows indicates the flow direction along Mountain Ave. A green line segment on Mountain Ave is labeled S-MA00010582. A black box labeled S-MH00008210 with an arrow points to a location on Fife St. A scale bar at the bottom left shows 50 m and 250 ft.
S-MA60009361	OSBORNE ST W OF CL	226.470	4.4	0.89	None	N/A	No upstream overflow.	 A map of the Osborne St area in Winnipeg. It shows a network of streets including Glasgow Ave, Osborne St, Woodward Ave, Brandon Ave, and Solway Trench. A blue line with arrows indicates the flow direction along Glasgow Ave. A green line segment on Glasgow Ave is labeled S-MA60009361. A scale bar at the bottom left shows 50 m and 250 ft.

Asset Number	Street Name	Upstream Invert (m)	Drainage Area (ha)	Average DWF (L/s)	Overflow Node ID	Overflow Water Level (m)	Overflow Description & Comments	Map
S-MA00015257	POWERS ST	225.620	20.4	3.02	S-MH00013376	227.03	Overflow to the SRS via a weir at S-MH00013377 at Andrews St/College Ave.	
S-MA00007788	PRITCHARD AV	227.120	26.7	5.09	S-MH00007627	228.67	Overflow to the SRS via a weir at S-MH00007627 at Pritchard Ave/Chudley St.	

Asset Number	Street Name	Upstream Invert (m)	Drainage Area (ha)	Average DWF (L/s)	Overflow Node ID	Overflow Water Level (m)	Overflow Description & Comments	Map
S-MA00007813	PRITCHARD AV (CL)	227.310	26.7	5.09	S-MH00007627	228.67	Overflow to the SRS via a weir at S-MH00007627 at Pritchard Ave/Chudley St.	
S-MA00001187	ROYAL AV	224.710	7.0	1.43	None	N/A	No upstream overflow relief. BF Risk: High Upstream PS: No	

Asset Number	Street Name	Upstream Invert (m)	Drainage Area (ha)	Average DWF (L/s)	Overflow Node ID	Overflow Water Level (m)	Overflow Description & Comments	Map
S-MA00001189	SCOTIA ST	224.381	10.7	1.76	None	N/A	No upstream overflow relief.	
S-MA20010426	WELLINGTON AV	229.030	3.6	0.62	S-MH20009527	230.243	Overflow to the combined system at S-MH20009527 at Sanford St.	

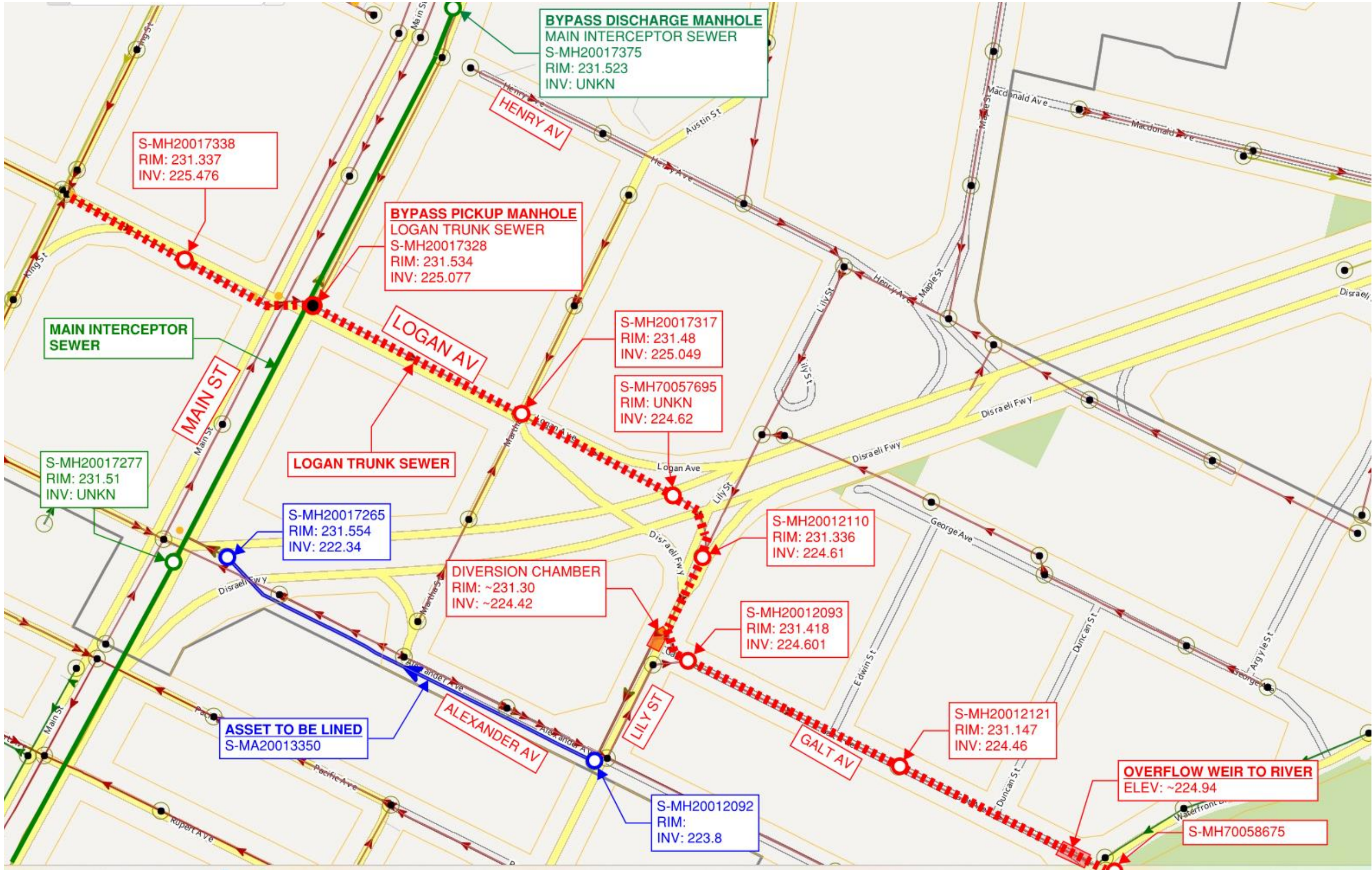


Figure 1 - Alexander Ave Bypass Pumping – Proposed General Arrangement