



LRL File No. 210216-05
Project: Residential Development (20 Stacked TH)
Location: 6001/6005 Renaud Rd
Date: July 9, 2024

Sanitary Design Parameters

Average Daily Flow = 280 L/p/day
 Commercial & Institutional Flow = 50000 L/ha/day
 Light Industrial Flow = 35000 L/ha/day
 Heavy Industrial Flow = 55000 L/ha/day
 Maximum Residential Peak Factor = 4.0
 Commercial & Institutional Peak Factor = 1.5

Industrial Peak Factor = as per Appendix 4-B = 7
 Extraneous Flow = 0.33L/s/gross ha

Pipe Design Parameters

Minimum Velocity = 0.60 m/s
 Manning's n = 0.013

LOCATION			RESIDENTIAL AREA AND POPULATION						COMMERCIAL		INDUSTRIAL			INSTITUTIONAL		G+I+I	INFILTRATION			TOTAL FLOW	PIPE					
STREET	FROM MH	TO MH	AREA (Ha)	POP.	CUMMULATIVE AREA (Ha)	POP.	PEAK FACT.	PEAK FLOW (l/s)	AREA (Ha)	ACCU. AREA (Ha)	AREA (Ha)	ACCU. AREA (Ha)	PEAK FACT.	AREA (Ha)	ACCU. AREA (Ha)	PEAK FLOW (l/s)	TOTAL AREA (Ha)	ACCU. AREA (Ha)	INFILT. FLOW (l/s)	TOTAL FLOW (l/s)	LENGT H (m)	DIA. (mm)	SLOPE (%)	MATERIAL	CAP. (FULL) (l/s)	VEL. (FULL) (m/s)
	SITE MH3	MH2	0.291	54.0	0.29	54.0	4.0	0.70	0.000	0.000	0.00	0.00	7.0	0.0	0.0	0.00	0.291	0.291	0.10	0.80	69.6	150	1.50%	PVC	18.65	1.06
	SITE MH2	MH1						0.70									0.291	0.291	0.10	0.80	24.6	150	1.50%	PVC	18.65	1.06
	SITE MH1	SAN SWR						0.70									0.291	0.291	0.10	0.80	23.7	150	2.00%	PVC	21.54	1.22

NOTES Existing inverts and slopes are estimated. They are to be confirmed on-site.

Designed: K.H.	PROJECT: Navan Stacked Townhomes		
Checked: V.J.	LOCATION: 6001/6005 Renaud Rd		
Dwg. Reference: C401	File Ref.: 210216-05	Date:	Sheet No. 1 of 1