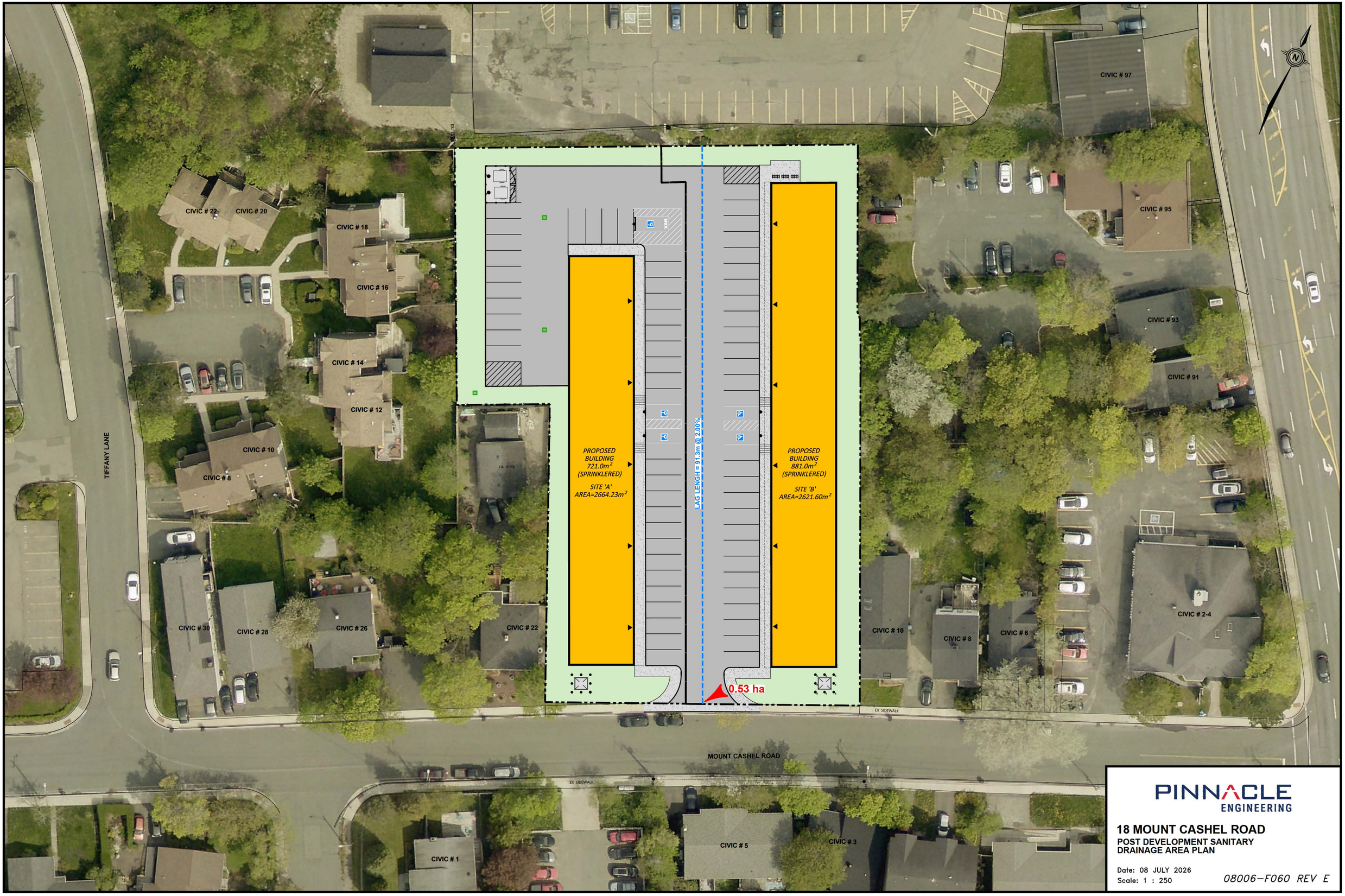
APPENDIX 7

Sanitary Drainage Area Plan



PINNACLE ENGINEERING

18 MOUNT CASHEL ROAD

POST DEVELOPMENT SANITARY DRAINAGE AREA PLAN

Date: 08 JULY 2026
Scale: 1 : 250

08006–F060 REV E

PINNACLE ENGINEERING

Peak Design Flows &
Sanitary Sewer Main Design

PN **08006**
Description: **Sanitary Sewer Analysis**
Sanitary Drainage Area Plan: **08006-F060 Rev A**
Rev: **0**

Daily Average Wastewater Flow (Apartment)	380 people/ha	L/person/day
Unit of Manhole Inflow in Sag Location, **S**	0.40 l/s	
Inflow and Infiltration Allowanace, **I**	0.30 l/s	

Location/Zoning				Peak Design Flows								Sanitary Sewer Main Design								
LOCATION	FROM	TO	Land Use	Tributary Area	Total Area	Design Population/1000	Design Population	Peaking Factor	Average Daily per Capita Domestic Flow	No. of Manholes in Sag Location	Peak Design Flow	LENGTH	SLOPE	PIPE DIAMETER	CROSS-SECTIONAL AREA	WETTED PERIMETER	HYDRAULIC RADIUS	PIPE CAPACITY	CAPACITY AVALIABLE	FULL VELOCITY
				A		P		M	q	N	**Qs**		S		A	P	R	**Qc**		
				(ha)	(ha)	(1/1000)			(l/cap/d)	(l/s)	(l/s)	(m)	(m/m)	(mm)	(m^2)	(m)	(m)	(l/s)	(%)	(m/s)
Mount Cashel			Res	0.53	0.53	0.165	165.0	4.18	38000.00	0	**3.0333**	10.0	0.0200	150	0.0177	0.471	0.038	21.3	85.8%	1.21

*** BOLD TEXT DENOTES PROPOSED MANHOLES**

APPENDIX 8

Post Development Storm Drainage Area Plan

CIVIC # 22
CIVIC # 20
CIVIC # 18
CIVIC # 16
CIVIC # 14
CIVIC # 12
CIVIC # 10
CIVIC # 8
CIVIC # 30
CIVIC # 28
CIVIC # 26
CIVIC # 22
TIFFANY LANE
EX. SHED
VAN
PROPOSED BUILDING 721.0m² (SPRINKLERED)
SITE 'A' AREA=2664.23m²
LAG LENGH = 91.3m @ 2.00%
PROPOSED BUILDING 881.0m² (SPRINKLERED)
SITE 'B' AREA=2621.60m²
0.53 ha
CIVIC # 97
CIVIC # 95
CIVIC # 93
CIVIC # 91
CIVIC # 10
CIVIC # 8
CIVIC # 6
CIVIC # 2-4
EX SIDEWALK
MOUNT CASHEL ROAD
EX SIDEWALK
CIVIC # 1
CIVIC # 5
CIVIC # 3

PINNACLE ENGINEERING

18 MOUNT CASHEL ROAD

POST DEVELOPMENT STORM DRAINAGE AREA PLAN

Date: 08 JULY 2026
Scale: 1 : 250

08006–F059 REV E