FUNCTIONAL SERVICING REPORT
ROSCOE AVENUE

September 2, 2026

Belleville
1 - 71 Millennium Pkwy
Belleville, ON
K8N 4Z5
Tel: 613-969-1111
info@jewelleng.ca

Kingston
208 - 4 Cataraqui St
Kingston, ON
K7K 1Z7
Tel: 613-389-7250
kingston@jewelleng.ca

Oakville
214-231 Oak Park Blvd
Oakville, ON
L6H 7S8
Tel: 905-257-2880
oakville@jewelleng.ca

TABLE OF CONTENTS

1 BACKGROUND 1
1.1 SITE DESCRIPTION 1
1.2 PROPOSED SITE DEVELOPMENT 3
1.2.1 Access 4
1.2.2 Servicing 4
2 WATER DISTRIBUTION SYSTEM 5
2.1 EXISTING CONDITIONS 5
2.2 WATER TREATMENT PLANT 5
2.3 DESIGN CRITERIA 5
2.4 FIRE FLOW DEMAND 6
2.5 HYDRAULIC ANALYSIS 6
2.5.1 Demand 6
2.5.2 Fire Flow Test Results 7
2.6 LOOPED NETWORK 8
2.6.1 Maximum Day + Fire Flow 9
2.6.2 Peak Hour Demand 9
2.7 SUMMARY 10
3 SANITARY SEWER SYSTEM 11
3.1 MUNICIPAL CONNECTION ON FIRST STREET 11
3.2 WASTEWATER TREATMENT PLANT 11
3.3 SEWER DESIGN CRITERIA 11
3.4 SANITARY SEWER ANALYSIS 12
3.4.1 Population Demand 12
3.4.2 Peak Demand 12
3.4.3 Extraneous Flows 12
3.4.4 Pipe Capacity 13
4 CONCLUSION 14
5 REFERENCES 15

TABLE OF TABLES

TABLE 1-1: SUBDIVISION STATISTICS 3
TABLE 2-1: SCENARIOS AND MINIMUM ALLOWABLE PRESSURES 5
TABLE 2-2: MAX DAY AND PEAK HOUR FACTORS 7
TABLE 2-3: WATER DEMAND SUMMARY (L/S) 7
TABLE 2-4: HYDRANT FIRE FLOW TEST RESULTS AT FIRST STREET HYDRANT (C083) 7
TABLE 2-5: HYDRANT FIRE FLOW TEST RESULTS AT BURNBRAE ROAD (C087) 8
TABLE 2-6: WATER USAGE DESIGN VALUES 10
TABLE 3-1: AVERAGE DAILY INFLOW 12

TABLE OF FIGURES

FIGURE 1-1: SITE LOCATION WITH CONCEPT PLAN OVERLAY 1
FIGURE 1-2: STORMWATER CATCHMENT AREA DRAINING THROUGH CROSS CULVERT 2
FIGURE 1-3: EXCERPT FROM MUNICIPALITY OF TRENT HILLS CAMPBELLFORD WATER SYSTEM MAPPING 3
FIGURE 2-1: WATER MODEL UNIT DISTRIBUTION ALONG NEW ROSCOE WATERMAIN 8
FIGURE 2-2: RESULTS OF MDD + FF LOOPED 9
FIGURE 2-3: RESULTS OF PHD LOOPED 9

TABLE OF APPENDICES

APPENDIX A: SUBDIVISION & CONDOMINIUM CONCEPT
APPENDIX B: OBC FIRE FLOW CALCULATIONS
APPENDIX C: SANITARY SEWER DESIGN SHEET
APPENDIX D: CAMPBELLFORD 2025 DRINKING WATER SUMMARY REPORT
APPENDIX E: CAMPBELLFORD HYDRANT TEST RESULTS
APPENDIX F: TRENT HILLS LOCATE REQUEST

1 Background

Jewell Engineering Inc. (Jewell) was retained to assist with a Plan of Subdivision and Plan of Condominium application for a proposed residential development at 166 Roscoe Avenue in Campbellford, Ontario. The site is located on the west and east sides of Roscoe Ave between First Street and Burnbrae Road E (Figure 1-1). This report is submitted to support the Draft Plan Application.



Figure 1-1: Site Location with Concept Plan Overlay

The following services have been reviewed as part of this functional servicing report:

- Water Distribution
- Sanitary Servicing
- Stormwater Management (separate cover)

1.1 Site Description

The subject lands are currently undeveloped. The lands comprising the application are 1.54 ha on the east side of Roscoe Avenue and 0.79 ha on the west. The subject lands were primarily used for agricultural with little to no woodland or significant vegetation. According to the Municipality of Trent Hills Official Plan, the site is within the Development Area of

Campbellford. This land is suitable for urbanization and infill development. Campbellford Urban Centre Land Use Schedule produced by Lower Trent Conservation indicates that the smaller west parcel is Urban Greenlands and the east parcel is Residential use.

The site fronts primarily onto Roscoe Ave and has some frontage onto Burnbrae Road E. The east parcel backs onto an unopened road allowance. Adjacent lands to the north and south of the parcels are mostly residential with existing dwellings on Burnbrae and Roscoe. To the west the property borders St. Mary's Cemetery.

There are no watercourses on the property. Site drainage flows southerly to the municipal ditch on Burnbrae and then east to a small tributary that crosses Burnbrae from the north to south through a culvert situated at Burnbrae Gardens retirement residence. The tributary eventually drains into the Trent River. The tributary area to the creek is identified below in Figure 1-2 comprising catchments 101, 102 and 103.

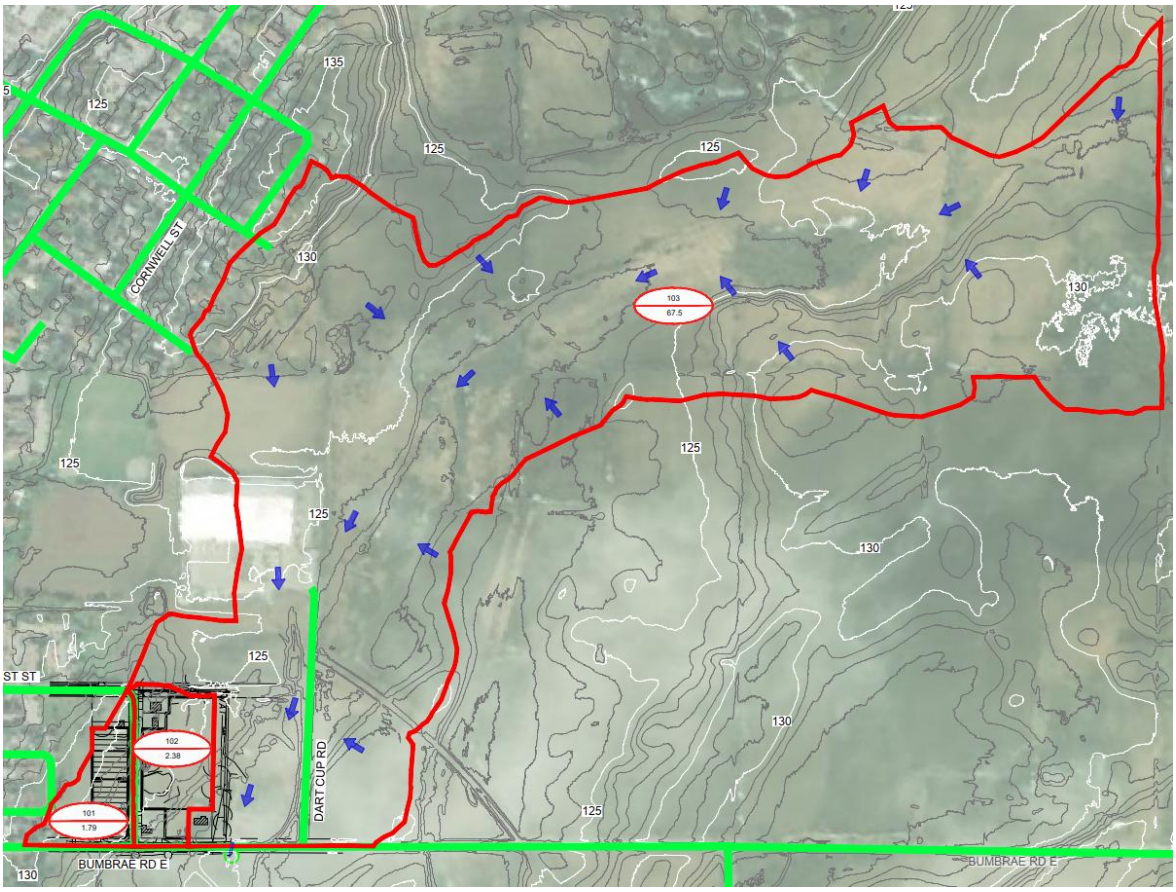


Figure 1-2: Stormwater Catchment Area Draining Through Cross Culvert

The existing residential dwellings adjacent to the site are partially serviced from Roscoe Ave. A 200mm forcemain runs along First Street and continues along the unopened ROW into a servicing easement to Burnbrae Gardens Nursing Home pump station. A 150mm PVC watermain runs along Roscoe Ave servicing the properties along this stretch. The approximate

locations of these services is provided by Trent Hills locate services (see Figure 1-3 and Appendix F).



Figure 1-3: Excerpt from Municipality of Trent Hills Campbellford Water System Mapping

1.2 Proposed Site Development

The proposed subdivision is composed of 59 residential units including multi-residential (townhouses and four-plex condominium bungalows). The subdivision statistics are outlined in Table 1-1.

Table 1-1: Subdivision Statistics

Unit Type	# Units	Persons/Unit	Population
Multi (Townhouse)	19	2.3	43.7
Multi (Fourplex)	40	2.3	92
Total Estimated Population			**135.7**

1.2.1 Access

Access is provided by the existing Roscoe Avenue 20m ROW. This is currently a rural section that will be upgraded to a full urban section. Roscoe Avenue intersects First Street on the north and Burnbrae on the south.

West Side Development

The lands on the west side will have frontage onto Roscoe Avenue and will access using private driveways.

East Side Development

The east lands will proceed as a condominium having an internal road suitable for 2-way vehicle movements. There will be two entrances off Roscoe Avenue. Parking will be provided in parking lots distributed throughout the condominium.

1.2.2 Servicing

Municipal water and sewer are available and will be extended through the development. Capacity in the system and new services were reviewed using the specifications outlined in the following guidelines:

- Ministry of Environment, Conservation, and Parks (MECP)
    - Design Guidelines for Drinking-Water Systems, 2008
    - Design Guidelines for Sewage Works, 2008
- Municipality of Trent Hills Municipal Servicing Guidelines, 2026
- Ontario Building Code – Table 8.2.1.3, 2017

2 Water Distribution System

2.1 Existing Conditions

There is a 150mm PVC watermain on First Street and a short stub onto Roscoe Ave, and the existing residential dwellings on this site. The main along First Street also extends another 220m further east into the unopened road allowance and then follows a second unopened road allowance south terminating in a dead-end almost at Burnbrae. See a rough schematic in Appendix F.

A second watermain is present on Burnbrae terminating just 30m west of Roscoe. It is 200mm and is asbestos cement.

New 200mm PVC DR18 watermain will be placed along Roscoe and will connect to the 150mm stub from First Street and will also make a connection to the 200mm watermain on Burnbrae.

2.2 Water Treatment Plant

Based on the Campbellford Drinking Water System: 2025 Annual Report, the municipality uses the nearby Trent River for water supply. The municipality states that the treatment plant collects and treats water from the river to supply the Campbellford (and immediate area) drinking water. A 5,230m^3 off-site storage reservoir (Campbellford Water Tower) provides peak hour demands and fire flow protection for the system.

The report states that the WTP's rated daily capacity is 6,800m^3/day and their highest daily demand was ~50% in 2025. This suggests 50% of the rated capacity (or 3,400m^3/day) is available for growth.

The available capacity is therefore 3,400m^3/day.

2.3 Design Criteria

Based on the Ministry of the Environment (MOE) *Design Guidelines for Drinking-Water Systems* requirements (2008), the following design flow scenarios must be satisfied to support the development:

Table 2-1: Scenarios and Minimum Allowable Pressures

Scenario	Description	Minimum Pressure (psi)
1	Peak Hour Demand (PHD)	50
2	Maximum Day Demand + Fire Flow (MDD+FF)	20

Jewell reviewed the proposed water demand using the following 2008 MOE Drinking Water System Guidelines and the Municipality of Trent Hills Municipal Servicing Guidelines:

- Minimum Watermain Diameter Size: 200mm
- Average Residential Daily Domestic Water Demand 450 L/cap*d
- Maximum Day + Fire Flow Demand Pressure Minimum: 20 psi
- Peak Hour Demand Pressure Minimum: 50 psi
- Peak Hour Demand Pressure Maximum: 100 psi
- Maximum Pressure 100 psi

2.4 Fire Flow Demand

The required fire flow for the subdivision was calculated using section 3.1 of the Ontario Building Code, which pertains to Fire Protection and Occupant Safety for residential occupancies.

The assumptions applied are:

- Wood framed construction (combustible – no rating)
- No firewalls
- No sprinkler system
- Separation of 2.4m or greater for the townhouses
- Maximum 2-storey townhouses
- Single storey for 4-plex units

Using these criteria, JE applied a fire flow requirement of 150L/s for the townhouse units.

2.5 Hydraulic Analysis

Water supply will be gained from a connection to Burnbrae and First Street on the frontage of the property. These two points create a looping system for the network, which connects a 200mm AC dead end with a 150mm DI dead end. The elimination of the dead ends will result in better flow through the system. Jewell has assessed the network in its current and looped configuration to consider the feasibility of both options.

2.5.1 Demand

Jewell calculated the base water demand for the anticipated population of 136 residents to be 61,200L/day or 0.71L/s.

Maximum Day Demand (MDD) and Peak Hour Demand (PHD) are calculated from factors listed in Table 2-1 that were selected based on the population of Campbellford (3,977 people) as reported in the 2021 Trent Hills Operational Plan and Table 3-1 of 2008 MOE Design Guidelines.

The Operational Plan suggests that the Campbellford water treatment plant is rated for 6,800 m^3/day.

Table 2-2: Max Day and Peak Hour Factors

Condition	Factor
Max Day	2
Peak Hour	3

The values were used to calculate the demands outlined in the summary table below:

Table 2-3: Water Demand Summary (L/s)

Unit	Base	Max Day	Peak Hour	Max Day + Fire Flow
Multi (Townhouse)	0.23	0.46	0.69	**151.42**
Multi (Fourplex)	0.48	0.96	1.44	
Total Demand	**0.71**	**1.42**	**2.13**	

2.5.2 Fire Flow Test Results

Jewell relied on hydrant flow testing data from the Municipality of Trent Hills on the hydrants in the area of the proposed development. The hydrants that have been considered are part of the Campbellford distribution network, numbered C083 and C087. The hydrants are located at approximately the intersection of Roscoe and First Street, and at 1257 Burnbrae Road. Trent Hills reports that the static pressure was approximately 66 psi (see Appendix B). This is within typical operating range. They completed a one port flow test of the hydrants and found the following:

Table 2-4: Hydrant Fire Flow Test Results at First Street Hydrant (C083)

Parameter	1 Port
Static (psi)	66
Residual (psi)	36
Flow	978 USGPM
Projected Flow at 20 psi	1232 USGPM
	77.7 L/s

Table 2-5: Hydrant Fire Flow Test Results at Burnbrae Road (C087)

Parameter	1 Port
Static (psi)	64
Residual (psi)	54
Flow	1113 USGPM
Projected Flow at 20 psi	2477 USGPM
	156.3 L/s

Trent Hills calculated that the hydrants can supply 77.7 L/s at First Street and 156.3 L/s at Burnbrae Road while maintaining a minimum of 20 psi. This shows that connecting to Burnbrae is required in order to meet the demand. First Street has inadequate flow to be used on its own.

2.6 Looped Network

Water servicing for Peak Hour and Max Day + Fire Flow was calculated using the Trent Hills Water Model maintained by JL Richards. The Max Day + Fire Flow scenario should be able to supply the required demand while maintaining a minimum system pressure of 20 psi in the main. A Peak Hour Demand scenario has a target for system pressure to be within 50 psi to 80 psi, and a minimum of 40 psi.

Jewell used the Trent Hills water model to establish the behaviour of the water distribution network under proposed design conditions. Jewell analyzed the new 200mm watermain along Roscoe, studying five nodes (denoted by circles). The nodes are green when the pressure is more than 51 psi, or orange when the pressure is between 40-51 psi.

The demands to the nodes were distributed as follows:

Location	Demand
Roscoe @ First	No Additional Flow
South of 155 Roscoe	4 Units
Middle Roscoe	50 Units
Roscoe @ Burnbrae	5 Units

Figure 2-1: Water Model Unit Distribution Along New Roscoe Watermain

2.6.1 Maximum Day + Fire Flow

Under Peak Hour Demand design conditions, most nodes operate above 51 psi, and the northmost node is above 40 psi as demonstrated in Figure 2-2. This figure also shows hydrants C083 and C087 to the north and south of Roscoe, with an intermediate hydrant proposed along the south third to provide fire supply. Max Day + Fire Flow is satisfied.



Figure 2-2: Results of MDD + FF Looped

2.6.2 Peak Hour Demand

Under Maximum Day Demand plus Fire Flows design conditions, the nodes in the system are all greater than 51 psi as shown in Figure 2-3. Peak hour is satisfied.

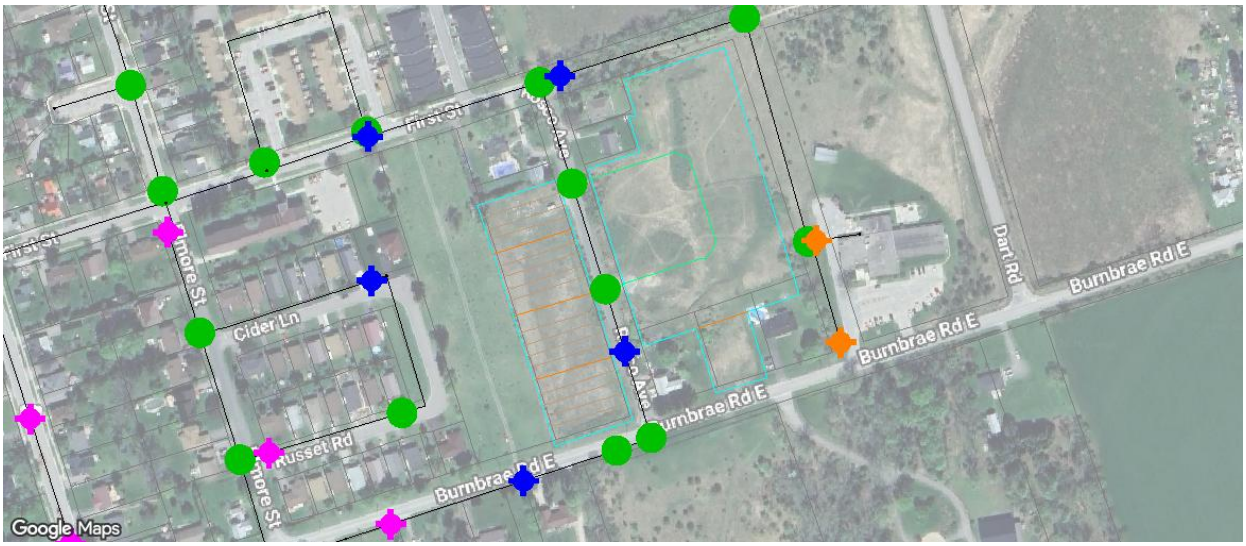


Figure 2-3: Results of PHD Looped

2.7 Summary

Table 2-6: Water Usage Design Values

Watermain Design Values	
Units	59
Equivalent Population (2.3 cap/unit)	136
Capita Usage (L/cap*day)	450
Base Demand (L/s)	0.71
Max Day Peaking Factor	2
Max Hour Peaking Factor	3
Fire Flow (L/s)	150
Max Day + Fire Flow (L/s)	151.42

Based on MOECC 2008 Table 3-1, system population of 3,000 to 10,000

Jewell adapted the Trent Hills water model to include the 200mm watermain along Roscoe with connections at First Street and Burnbrae. Max day + Fire Flow shows that the pressure at all nodes are in excess of 40 psi, which meets the requirement to be greater than 20 psi. Peak hour conditions demonstrate that all nodes are in excess of 50 psi, which meets the requirement to be greater than 40 psi.

There is sufficient municipal water supply to support the proposed development.

3 Sanitary Sewer System

3.1 Municipal Connection on First Street

A 200mm sanitary trunk sewer flows by gravity from the intersection of First and Roscoe toward the west. The locates show a sanitary forcemain runs from Burnbrae Gardens Pump Station to the gravity connection at Roscoe/First Street through the unopened road allowances. The gravity system is believed to have been installed in 1954.

A review of the existing municipal infrastructure on First Street concluded that the connection to municipal system to the north of the property via gravity sewer is the only reasonable connection. The nearest sanitary manhole is at the intersection of First and Roscoe, identified as sasC447 in Appendix F.

3.2 Wastewater Treatment Plant

Trent Hills maintains an annual performance evaluation of the wastewater systems under their jurisdiction. Part of this performance evaluation is to estimate the additional population that could be supported by the reserve capacity in the systems. The rated capacity of the Campbellford WWTP is 6,800 m^3/day. Trent Hills reported in 2021 that the Campbellford system can accommodate an additional 2,086 persons. The proposed development would introduce approximately 136 persons, which is 6.5% of the reserve capacity.

Jewell completed a review of the Campbellford Wastewater Treatment plant and concluded there is capacity to receive sewage from the proposed development. The treatment facility reported the highest Average Daily Flow for 2024 to be 5102m^3/day in April. The daily sanitary flow from this development as shown ahead in Section 3.4.1 is approximately 61 m^3/day.

3.3 Sewer Design Criteria

Jewell used sanitary design criteria outlined in the 2008 MOE Design Guidelines for Sewage Works and the Municipality of Trent Hills Municipal Servicing Guidelines. The following information was used in the sanitary design:

- Minimum Sanitary Sewer Diameter Size — 200 mm
- Minimum Sewer Slope (200 mm Diameter): — 0.4%
- Pipe Capacity Equation: — Manning's
- Average Residential Daily Domestic Flows — 450 L/cap*d
- Extraneous Flow Allowance — 0.28 L/s*ha
- Minimum Flow Velocities — 0.6 m/s
- Maximum Flow Velocities — 3.0 m/s

- Peaking Factor Harmon Peaking Factor

3.4 Sanitary Sewer Analysis

Jewell completed a design of the proposed sanitary sewer, but was not able to verify the capacities of all downstream pipes. Municipal staff did not identify any concerns.

There is no gravity connection, therefore the flows from this development will drain by gravity to a pump station within the SWM Facility block which will return the flows uphill to structure C447 at the First Street and Roscoe Ave. These flows will drain by gravity following the existing sanitary sewer system to the Campbellford WWTP.

The sanitary sewer design spreadsheet compares expected peak flows contributing to the pipe with pipe capacity for the gravity portions. Flow rates are resolved in L/s.

3.4.1 Population Demand

The development demands were estimated using the same usage rates as water demands (see Section 2.3). The nearly 60 dwellings will use 61,065L/day. The Average Daily Inflow (ADI) was estimated by calculating the residential usage per household.

Table 3-1: Average Daily Inflow

ADI – Residential Use		
Average Daily Demand/Person	450	L/d/person
Persons/Unit	2.3	
No. of Dwelling Units	59	
Average Daily Inflow	**61,065**	**L/d**

3.4.2 Peak Demand

A calculation of peak instantaneous flow is made by multiplying the average demand by the Harmon Equation that estimates a peak factor based on population. Peak demands are calculated for each pipe segment and are listed within the sanitary sewer design sheet in Appendix C.

3.4.3 Extraneous Flows

Sewers are subject to infiltration and inflow through leakage into the pipe at joints or breaks in the pipe and through sources such as sump pump connections that cannot be accounted for in domestic demand. The extraneous flows are estimated following MOE 2008 on an area basis.

The area is assumed as the full property boundary fronting on the sewer if that property contributes to the sewer.

3.4.4 Pipe Capacity

The capacity of the pipe is calculated using Manning's Equation that considers the slope, size, and roughness of the pipe. The new pipe slopes will range 0.4% to 8.1%. The minimum pipe capacity in the system is 20.7L/s. The sum of the peak demand and extraneous flows must be less than 80% of the pipe capacity. The peak flow from the proposed development is 4.3 L/s, which is greater than 20.7L/s.

Based on the Sanitary Sewer Design Calculations, the proposed development will use approximately 7% of the capacity of the 200mm PVC pipe on First Street which is at 3.5% slope. The slope of the pipe was inferred based on the slope of the road and general topography around the sanitary structures.

The new sewers will have sufficient capacity to service this development.

4 Conclusion

Jewell studied the existing site located at 166 Roscoe Ave and reviewed the feasibility of servicing the proposed development with municipal services:

Water Distribution System

The development must be serviced with a 200mm PVC watermain with connection to be made to Burnbrae Road E will be looped to connect First Avenue with Burnbrae. Jewell reviewed the proposed water network under normal operating, max day, peak hour, and max day + fire flow scenario. The proposed water network satisfies flow and pressure requirements to adequately service the lands. The water treatment plant has sufficient capacity for the proposed development.

Sanitary Sewer System

The subdivision will be serviced with new 200mm proposed sanitary gravity sewers. The development will drain generally from north to south toward a pump station located within the park Block. The sanitary flow will be pumped uphill to structure C447, at the intersection of First/Roscoe, where it will discharge to the gravity sewer on First Street. The treatment plant is expected to have sufficient reserve capacity.

Overall, it was found that there is sufficient water and sewer capacity to support the proposed development.

Prepared by



Matthew Warner, BASc.

Jewell Engineering Inc.

Reviewed by



Bryon Keene, P.Eng.

Jewell Engineering Inc.

5 References

The information used to prepare this report is based on the following documents and information provided as noted below:

- Municipality of Trent Hills Municipal Servicing Guidelines, 2026
- Ontario Regulation 332/12
    - Ontario Building Code, 1992
- Ontario Ministry of Environment
    - Design Guidelines for Sewage Works, 2008
    - Design Guidelines for Drinking-Water Systems, 2008

APPENDIX A:
SUBDIVISION & CONDOMINIUM CONCEPT

DEVELOPMENT SITE PLAN

ROSCOE STREET

PART OF LOT 4, BLOCK U
PART OF LOTS 5 & 6, BLOCK V

REGISTERED PLAN No. 112

TOWN OF CAMPBELLFORD

COUNTY OF NORTHUMBERLAND

SCALE = 1:400

0 2.5 5 10 15 20 25 30 35 40m

No.	REVISION	DATE	APPR'D

DRAWN BY: JH | CHECKED BY: BK | DATE: 07/28/2026

N
W E
S

EXISTING RESIDENTIAL

PART 1 PLAN 38R–2558

VACANT LAND

FIRST STREET

212.36' N70°28'00"E

EXISTING RESIDENTIAL

EXISTING RESIDENTIAL

PART 1 PLAN 38R–2781

EXISTING RESIDENTIAL

75.15' N19°26'30"W

74.83' N19°26'00"W

110.00' N70°28'00"E

PART 1 PLAN 38R–4017

N70°29'20"E 170.68'

PART 2 PLAN 38R–4017

20.1m

SAINT MARY'S CEMETERY

BLOCK 4 (1639.4 sq.m)

BLOCK 3 (2098.7 sq.m)

BLOCK 2 (2152.1 sq.m)

BLOCK 1 (2077.4 sq.m)

BLOCK 5 (14690.1 sq.m)

BLOCK 6 (1399.9 sq.m)

112

46.

510.90'

N19°24'40"W

N20°10'20"W

510.35'

3.0m DRAINAGE EASEMENT

ROSCOE STREET

376.00'

525.00'

N18°46'20"W

UNNAMED STREET (NOT OPEN)

BLOCK W LOT 7

NURSING HOME
BERNBRAE GARDENS

111.54' N70°18'30"E

110.00' N70°18'30"E

EXISTING RESIDENTIAL

PART 1 PLAN 38R–3863

137.00'

165.23' N70°18'30"E

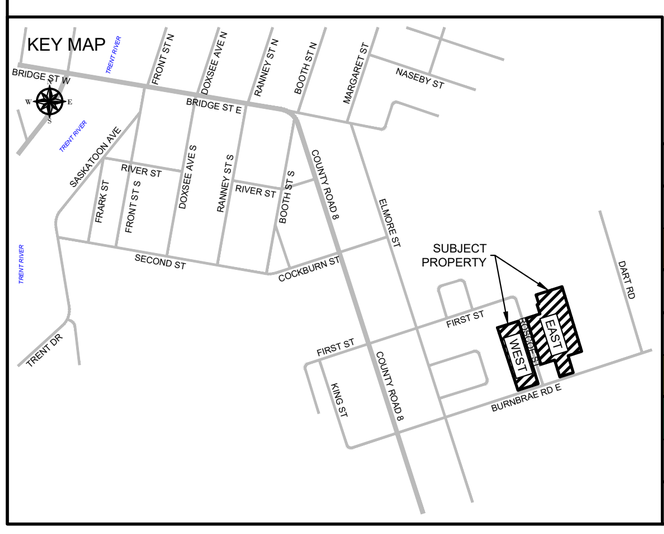
110.00' N70°18'30"E

20.1m

ROAD ALLOWANCE BETWEEN CONCESSIONS 5 AND 6
BURNBRAE ROAD

EXISTING RESIDENTIAL

KEY MAP



GENERAL NOTES:

BEARINGS SHOWN ON THIS PLAN ARE ASTRONOMIC.

DISTANCES SHOWN ON THIS PLAN ARE IN FEET AND CAN BE CONVERTED TO METRES BY MULTIPLYING BY 0.3048.

TOPOGRAPHIC LIDAR ELEVATIONS ARE IN CGVD2013 AND CAN BE CONVERTED TO CGVD28 BY ADDING 0.34m.

LAND USE SCHEDULE		
LAND USE (WEST)	**AREA (ha)**	
BLOCKS 1–4 7.4m (180m²) MIN. FREEHOLD TOWNHOMES	0.80	19
WEST SUB–TOTAL	**0.80 ha**	**19**
LAND USE (EAST)	**AREA (ha)**	**UNITS**
BLOCK 5 CONDOMINIUM	1.47	40
BLOCK 6 – PARK LAND (TO BE DEEDED TO MUNICIPALITY)	0.14	
EAST SUB–TOTAL	**1.61 ha**	**40**
SITE TOTAL	**2.41 ha**	**59**

ZONING BY-LAW No. 2010-105				
DWELLING TYPE	ROW TOWNHOUSE		APARTMENT	
ZONING PROVISION – TABLE 2	R2 ZONE	PROPOSED	R3 ZONE	PROPOSED
MINIMUM LOT AREA	INT – 180m² EXT – 216m²	INT – 180m² EXT – 216m²	74units/ha	74units/ha
MINIMUM LOT FRONTAGE	INT – 6.0m EXT – 10.0m	INT – 6.0m EXT – 10.0m	24.0m	24.0m
MINIMUM FRONT YARD	6.0m	6.0m	7.5m	6.0m
MINIMUM EXTERIOR SIDE YARD	3.0m	3.0m	7.5m	4.0m
MINIMUM INTERIOR SIDE YARD	1.2m	1.2m	4.5m	4.0m
MINIMUM REAR YARD	6.0m	6.0m	10.0m	4.0m
MAXIMUM LOT COVERAGE	40.0%	40.0%	40.0%	40.0%
CENTRELINE SETBACK – TOWNSHIP	17.5m	15.0m	17.5m	17.5m
MINIMUM LANDSCAPED OPEN SPACE	30.0%	30.0%	30.0%	30.0%
MAXIMUM HEIGHT OF BUILDINGS	11.0m	11.0m	12.5m	12.5m
PARKING SPACES	1.25/unit	2.0/unit	1.25/unit	1.5/unit

JEWELL ENGINEERING

JOB No. 260-6041

APPENDIX B:
OBC FIRE FLOW CALCULATIONS

Fire Flow Requirements as per the Ontario Building Code (OBC)

*A-3.2.5.7. Water Supply for Fire-Fighting

Procedure

1	Building to be Assessed		Townhouse	
2	Building Classification		C	A-3.1.2.1.(1)
3	Building Specific Details	1 - Single Floor Area	703	sq.m
		2 - Number of Storeys	2	
		3 - Building Height	10	m
		4 - Firewall Separation?	Yes	
		5 - Sprinkler System?	No	
		6 - Construction Type	Combustible (rating)	
4	Minimum Supply of Water	K	23	Table 1
		V	7,030	cu.m
		S_{tot}	2.0	
		Q	323,000	L
5	Minimum Fire Flow	Table 2	9000	L/min
			150	L/s
6	Fire Protection	Total Flow Required	9,000	L/min
		Municipal Flow Available	9,378	L/min
		Additional Flow Needed	0	L/min
		Additional Volume Needed	0	L

Procedure

1	Building to be Assessed		Fourplex	
2	Building Classification		C	A-3.1.2.1.(1)
3	Building Specific Details	1 - Single Floor Area	400	sq.m
		2 - Number of Storeys	1	
		3 - Building Height	6	m
		4 - Firewall Separation?	Yes	
		5 - Sprinkler System?	No	
		6 - Construction Type	Combustible (rating)	
4	Minimum Supply of Water	K	23	Table 1
		V	2,400	cu.m
		S_{tot}	2.0	
		Q	110,000	L
5	Minimum Fire Flow	Table 2	9000	L/min
			150	L/s
6	Fire Protection	Total Flow Required	9,000	L/min
		Municipal Flow Available	9,378	L/min
		Additional Flow Needed	0	L/min
		Additional Volume Needed	0	L

Important: If building is sprinklered - this calculation does not apply!
Instead, must confirm that there is sufficient pressure and flow to supply the sprinkler system (usually significantly less than this calc)

APPENDIX C:
SANITARY SEWER DESIGN SHEETS

SANITARY SEWER DESIGN SHEET

Peak Design Flow Calculation

Peak Design Flow (Q_d) = Peak Population Flow (Q_p) + Peak Extraneous Flow (Q_i)

$Q_d = Q_p + Q_i$

$Q_p = \frac{PqM}{86.4}$

$Q_i = IA$

$M = 1 + \frac{14}{4 + \sqrt{P}}$

Where:

q	Average daily per capita flow	**450** L/d/cap
I	Unit of peak extraneous flow	**0.28** L/s/ha
M	Harmon peaking factor (min = 2)	
P	Population in 1000's	
A	Area in hectares	

Population Densities

Single Family (Single)	**2.3** cap/unit
Semi-Detached (Semi)	**2.3** cap/unit
Apartment 2-3 bedroom (Apart)	**2.0** cap/unit

Stamp

Pipe Capacity by Manning's Equation

$Q = \frac{1}{n} A R^{2/3} S^{1/2}$

Where:

		Check
A	Area of pipe in m2	
R	Hydraulic radius = a/p	$Q_d \leq 0.8 \cdot (Pipe\ Capacity)$
P	Wetted perimeter	$0.6 \leq V \leq 3.0$
S	Slope (m/m)	
n	Manning's friction coef.	use Actual V if d:D < **0.3**

LOCATION				PEAK FLOW CALCULATION									PROPOSED SEWER									
				RESIDENTIAL																		
				INDIVIDUAL					CUMULATIVE													
CATCHMENT AREA #	STREET	FROM	TO	UNITS			POP.	AREA (A) (ha)	POP.	AREA (A) (ha)	RESID. PEAKING FACTOR M	POP. FLOW Q_p (L/s)	PEAK EX. Q_i (L/s)	DESIGN FLOW Q_d (L/s)	LENGTH (m)	PIPE SIZE (mm)	PIPE MATERIAL	GRADE USE m/m (%)	CAPACITY n = 0.013 (L/s)	FULL FLOW VELOCITY (m/s)	RATIO d:D	ACTUAL VELOCITY AT Q_d (m/s)	CHECK	% FULL q/Q
				Single	Semi	Apart																		
-	Rosco Street	105	106		9		20.7	0.54	20.7	0.54	4.38	0.5	0.2	0.6	68.6	200	PVC	8.10%	93.3	2.97	0.04	0.56	VELOCITY	0.7%
-	Future Development	111	**113**		12		27.6	0.37	27.6	0.37	4.36	0.6	0.1	0.7	20.7	200	PVC	1.00%	32.8	1.04	0.10	0.44	VELOCITY	2.2%
-	Future Development	113	112		16		36.8	0.71	64.4	1.08	4.29	1.4	0.3	1.7	79.2	200	PVC	0.50%	23.2	0.74	0.18	0.43	VELOCITY	7.5%
-	Future Development	112	106		12		27.6	0.39	92.0	1.47	4.25	2.0	0.4	2.4	68.6	200	PVC	0.40%	20.7	0.66	0.23	0.44	VELOCITY	11.8%
-	Rosco Street	106	107		10		23.0	0.58	135.7	2.59	4.20	3.0	0.7	3.7	92.0	200	PVC	0.62%	25.8	0.82	0.25	0.58	VELOCITY	14.3%
-	Rosco Street	107	108				0.0	0.00	135.7	2.59	4.20	3.0	0.7	4.3	120.8	200	PVC	1.90%	45.2	1.44	0.20	0.91	OK	9.6%
								force main from SWM Block to First Street																
-	First Ave	C447	C449											4.3	121.0	200	DI	3.50%	61.4	1.95	0.17	1.11	OK	7.0%
Totals				**0**	**59**	**0**	**135.7**	**2.59**																
					59																			

Jewell Engineering Inc.
1 - 71 Millennium Parkway
Belleville, ON K8P 4Z5
Tel: 613-969-1111
Fax: 613-969-8988
Website: www.jewelleng.ca

Designed: Matthew Warner
Checked: Bryon Keene, P.Eng
Date: August 26, 2026

Project: McDonald Homes
Rosco Ave - Subdivision
260-6041

APPENDIX D:
CAMPBELLFORD 2025 DRINKING WATER SUMMARY REPORT

The Municipality of Trent Hills

Come for a visit. Stay for a lifestyle.

SUMMARY REPORT

Campbellford
Drinking-Water System

2025

Municipal Drinking Water License 150-102

Drinking Water Works Permit 150-202

Prepared by
Water Operations Division
January 2025

The following summary report is prepared as legislated by the **Safe Drinking Water Act**, **2002** under Ontario Regulation 170, Schedule 22 - Summary Reports for Municipalities.

SAFE DRINKING WATER ACT
(O. Reg. 170/03, Schedule 22)

The following provides details of the sections and sub-sections found under **Schedule 22 - Summary Reports for Municipalities** of O. Reg. 170/03. This information has been included for your reference.

SCHEDULE 22

SUMMARY REPORTS FOR MUNICIPALITIES

Municipal: Large Residential, Small Residential

Application

22-1. This Schedule applies to the following drinking-water systems:

1. Large municipal residential systems.
2. Small municipal residential systems.

Report

22-2.

(1) The owner of a drinking-water system shall ensure that, not later than March 31 of each year after 2003, a report is prepared in accordance with subsections (2) and (3) for the preceding calendar year and is given to,

(a) in the case of a drinking-water system owned by a municipality, the members of the municipal council.

(b) in the case of a drinking-water system owned by a municipal service board established under section 195 of the *Municipal Act 2001,* the members of the municipal service board; or

(c) in the case of a drinking-water system owned by a corporation, the board of directors of the corporation.

(2) The report must,

(a) list the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water license, and any orders applicable to the system that were not met at any time during the period covered by the report; and

(b) for each requirement referred to in clause (a), that was not met, specify the duration of the failure and the measures that were taken to correct the failure.

(3) The report must also include the following information for enabling the owner of the system to assess the capability of the system to meet existing planned uses of the system:

1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.

2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water license, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), the flow rates specified in the written agreement.

(4) If a report is prepared under subsection (1) for a system that supplies water to a municipality under the terms of a contract, the owner of the system shall give a copy of the report to the municipality by March 31.

Report Summary

In reference to the above legislation, the following details how this relates to the Campbellford Drinking Water System:

Application

22-1. The Campbellford Drinking Water System is classified as:

"Large municipal residential"

Report

22-2.

Sub-section (1)

This section refers to this report submission.

Sub-section (2)

Campbellford Drinking Water System (Dec 23, 2024 to Dec 16th, 2025)
Drinking Water Inspection Report 1-377597392

Final Inspection Rating:

At the time of this report the final inspection results were not yet available from the MECP.

Sub-section (3)

This information is included in Appendix A which provides flow data for the Campbellford water system. The data included in those tables under Treated water details average and maximum flows to assess actual flow demands compared with the approved capacities of the facility. The data included under the raw water heading displays peak flow demands compared to the approved capacity. This data would also indicate if a facility exceeded the rated operational capacity**.**

Sub-section (4)

This section does not apply to the Campbellford Drinking Water System**.**

Any questions regarding the information contained in this report should be directed to the undersigned at.

Kyle Beacock
Manager of Water & Wastewater Services,
Municipality of Trent Hills
705 632 9550

APPENDIX A

CAMPBELLFORD WATER TREATMENT PLANT

2025 Flow Summary Data

Design Capacity: **6,800 M^3/Day, 78.7 l/s**

Treated Water							**Raw Water**				
Month	Total Monthly Flow	Average Daily Flow	Minimum Daily Flow	Maximum Daily Flow	Approved Daily Plant Capacity	Maximum Daily Flow vs. Plant Capacity	Total Monthly Flow	Maximum Daily Flow	Maximum Peak Flow Rate	Approved Maximum Flow Rate PTTW	Max. Peak Flow Rate vs. Rated Flow Rate
	M^3	**M^3**	**M^3**	**M^3**	**M^3**	**%**	**M^3**	**M^3**	**l/s**	**l/s**	**%**
January	49,779	1,606	1,206	1,856	**6,800**	27	53,365	1,906	66.9	**69.5**	96
February	51,170	1,828	1,321	3,392	**6,800**	50	55,102	3,799	81.9	**69.5**	118
March	47,258	1,524	966	1,781	**6,800**	26	50,472	1,774	81.1	**69.5**	117
April	50,174	1,672	1,234	2,078	**6,800**	31	52,040	1,863	46.0	**69.5**	66
May	59,342	1,914	1,582	2,287	**6,800**	34	65,988	2,129	81.9	**69.5**	118
June	68,754	2,292	1,721	3,329	**6,800**	49	77,952	3,569	81.9	**69.5**	118
July	74,899	2,416	2,138	2,651	**6,800**	39	78,204	3,036	50.2	**69.5**	72
August	75,648	2,440	2,113	2,739	**6,800**	40	78,182	2,902	50.7	**69.5**	73
September	72,260	2,409	2,053	2,920	**6,800**	43	74,935	3,028	74.6	**69.5**	107
October	70,144	2,263	1,764	2,740	**6,800**	40	73,930	2,779	47.9	**69.5**	69
November	53,103	1,770	1,491	1,991	**6,800**	29	57,664	2,079	61.5	**69.5**	88
December	54,392	1,755	1,435	2,062	**6,800**	30	59,142	2,212	38.0	**69.5**	55
Total	**726,923**						**776,976**				
Average		**1,991**									
Minimum			**966**								
Maximum				**3,392**		**49.9**		**3,799**	**81.9**		**117.8**

SEE INSET A

NORTH

INSET A: COUNTY ROAD 50 NORTH
1:6,500

INSET B: COUNTY ROAD 30 SOUTH
1:15,000

SEE INSET B

SEE INSET C

INSET C: RIVERSIDE TRAIL
1:2,000

Trent River

LOCK 13

LOCK 12

LOCK 11

LOCK 10

DAM 10

WATER TREATMENT PLANT

WATER TOWER

PRIVATE FIRE HOUSE

TO FERRIS PROVINCIAL PARK

Trent Canal

LEGEND

HYDRANT: ID NUMBER

- WITH ISOLATION VALVE
- WITHOUT ISOLATION VALVE
- YARD HYDRANT
- PRIVATE HYDRANT

WATER VALVE

- LOCATED WITH GPS OR CONFIRMED FROM DETAIL DRAWING
- LOCATION ESTIMATED FROM SCHEMATIC DRAWING
- SERVICE VALVE LOCATION
- BLOW-OFF VALVE

WATERMAIN: YEAR CONSTRUCTION, DIAMETER (MM)

- ASBESTOS CEMENT
- CAST IRON
- DUCTILE IRON
- HIGH DENSITY POLYETHELYNE
- PVC
- COPPER
- STEEL
- WATER TREATMENT PLANT
- WATER TOWER

NOTES:
AERIAL PHOTOGRAPHY SOURCE - MINISTRY OF NATURAL RESOURCES SOUTHCENTRAL ONTARIO ORTHOPHOTOGRAPHY PROJECT (SCOOP) 2013.

MUNICIPALITY OF TRENT HILLS
Come for a visit. Stay for a lifestyle.

CAMPBELLFORD WATER SYSTEM

100 50 0 100 200 300 400
meters

PREPARED BY: S. ELLIOTT	CHECKED BY: R. ALBRIGHT	PROJECT No. Z0030276
DESIGNED BY: ----	APPROVED BY: R. ALRIGHT	DRAWING No. W1
SCALE: 1:4,000	DATE: 07/04/2025	

MUNICIPALITY OF TRENT HILLS
Campbellford distribution System

Fire Hydrant Flows for Colour Coding as per NFPA - USGPM

Route Number	Hydrant Number	Street Location	Static Pressure	Pitot Pressure	Residual Pressure	hr Pressure	hf Pressure	1 Port Flow	Total 1 Port Flow at 20 psi
87	**80**	Cider Lane	62	44	50	42	12	1113	2189
88	**81**	First St. in front of Cemetary	68	34	46	48	22	978	1491
89	**82**	Kinlee Terrace	72	42	50	52	22	1087	1730
90	**260**	Ferris Court at house #16	82	25	42	62	40	839	1063
91	**261**	Ferris Court at house #30	82	26	44	62	38	856	1114
92	**83**	Roscoe Avenue at First St.	66	34	36	46	30	978	1232
93	**84**	Burnbrae Gardens Nursing Home	78	30	30	58	48	919	1018
94	**85**	Burnbrae Gardens dead end	78	22	26	58	52	787	835
95		40 Dart Rd - private hydrant							
96	**86**	Burnbrae Rd. E of Centre St.	62	34	50	42	12	978	1924
97	**87**	Burnbrae Rd. E at House #1257 dead end	64	44	54	44	10	1113	2477
98	**88**	Stirling Rd. 1rst hydrant past Burnbrae	72	55	60	52	12	1244	2747
99	**89**	Stirling Rd. 2nd hydrant past Burnbrae	75	50	60	55	15	1186	2393
100	**90**	Stirling Rd. 3rd hydrant past Burnbrae	75	65	60	55	15	1353	2729
101	**91**	Stirling Rd. 4th hydrant past Burnbrae	75	48	55	55	20	1163	2007
102	**92**	Stirling Rd. 5th hydrant past Burnbrae	75	55	60	55	15	1244	2510
103	**93**	Applewood Estates 1rst hydrant	75	50	52	55	23	1186	1900
104	**94**	Applewood Estates 2nd hydrant	75	40	48	55	27	1061	1558
105	**95**	Applewood Estates 3rd hydrant	75	35	42	55	33	993	1308
106	**96**	Applewood Estates - Dead end	75	32	42	55	33	949	1251
107	**97**	Burnbrae Rd. at King St.	65	15	15	45	50	650	614
108	**98**	Burnbrae Rd. W at Dead end	65	10	10	45	55	531	476
109	**250**	King St. Dead end	65	15	15	45	50	650	614
110	**100**	Bridge St. W at Raglan St.	85	58	78	65	7	1278	4257
111	**101**	Bridge St. W at Pellissier St.	82	65	75	62	7	1353	4393
112	**102**	Bridge St. W at Simpson	82	50	70	62	12	1186	2880
113	**103**	Bridge St. W at King Rad	80	52	70	60	10	1210	3184
114	**104**	Bridge St. at Garry St.	70	60	65	50	5	1300	4507
115	**105**	Bridge St. W at Windsor Avenue	65	50	60	45	5	1186	3886
116	**271**	Camelot Development 1st Hydrant	68	35	56	48	12	993	2099
117	**272**	Camelot Development 2nd Hydrant	62	35	50	42	12	993	1953
118	**273**	Camelot Development 3rd Hydrant	52	28	42	32	10	888	1664
119	**274**	Camelot Development 4th Hydrant	50	27	38	30	12	872	1430
120	**106**	Bridge St. W at House #310	65	45	55	45	10	1126	2536

APPENDIX E:
CAMPBELLFORD HYDRANT TEST RESULTS

MUNICIPALITY OF TRENT HILLS
Campbellford distribution System

Fire Hydrant Flows for Colour Coding as per NFPA - USGPM

Route Number	Hydrant Number	Street Location	Static Pressure	Pitot Pressure	Residual Pressure	hr Pressure	hf Pressure	1 Port Flow	Total 1 Port Flow at 20 psi
87	**80**	Cider Lane	62	44	50	42	12	1113	2189
88	**81**	First St. in front of Cemetary	68	34	46	48	22	978	1491
89	**82**	Kinlee Terrace	72	42	50	52	22	1087	1730
90	**260**	Ferris Court at house #16	82	25	42	62	40	839	1063
91	**261**	Ferris Court at house #30	82	26	44	62	38	856	1114
92	**83**	Roscoe Avenue at First St.	66	34	36	46	30	978	1232
93	**84**	Burnbrae Gardens Nursing Home	78	30	30	58	48	919	1018
94	**85**	Burnbrae Gardens dead end	78	22	26	58	52	787	835
95		40 Dart Rd - private hydrant							
96	**86**	Burnbrae Rd. E of Centre St.	62	34	50	42	12	978	1924
97	**87**	Burnbrae Rd. E at House #1257 dead end	64	44	54	44	10	1113	2477
98	**88**	Stirling Rd. 1rst hydrant past Burnbrae	72	55	60	52	12	1244	2747
99	**89**	Stirling Rd. 2nd hydrant past Burnbrae	75	50	60	55	15	1186	2393
100	**90**	Stirling Rd. 3rd hydrant past Burnbrae	75	65	60	55	15	1353	2729
101	**91**	Stirling Rd. 4th hydrant past Burnbrae	75	48	55	55	20	1163	2007
102	**92**	Stirling Rd. 5th hydrant past Burnbrae	75	55	60	55	15	1244	2510
103	**93**	Applewood Estates 1rst hydrant	75	50	52	55	23	1186	1900
104	**94**	Applewood Estates 2nd hydrant	75	40	48	55	27	1061	1558
105	**95**	Applewood Estates 3rd hydrant	75	35	42	55	33	993	1308
106	**96**	Applewood Estates - Dead end	75	32	42	55	33	949	1251
107	**97**	Burnbrae Rd. at King St.	65	15	15	45	50	650	614
108	**98**	Burnbrae Rd. W at Dead end	65	10	10	45	55	531	476
109	**250**	King St. Dead end	65	15	15	45	50	650	614
110	**100**	Bridge St. W at Raglan St.	85	58	78	65	7	1278	4257
111	**101**	Bridge St. W at Pellissier St.	82	65	75	62	7	1353	4393
112	**102**	Bridge St. W at Simpson	82	50	70	62	12	1186	2880
113	**103**	Bridge St. W at King Rad	80	52	70	60	10	1210	3184
114	**104**	Bridge St. at Garry St.	70	60	65	50	5	1300	4507
115	**105**	Bridge St. W at Windsor Avenue	65	50	60	45	5	1186	3886
116	**271**	Camelot Development 1st Hydrant	68	35	56	48	12	993	2099
117	**272**	Camelot Development 2nd Hydrant	62	35	50	42	12	993	1953
118	**273**	Camelot Development 3rd Hydrant	52	28	42	32	10	888	1664
119	**274**	Camelot Development 4th Hydrant	50	27	38	30	12	872	1430
120	**106**	Bridge St. W at House #310	65	45	55	45	10	1126	2536

APPENDIX F:
TRENT HILLS LOCATE REQUEST

Municipality of Trent Hills Works Department

Sewer Water Street Lights

Record of Locating Underground Utilities

Appointment for Date April 25, 2022 Valid for 60 days from this date LR# 20221621118

Requested by McDonald Homes.

Location of Work Burnbrae Rd E

Nature of Work Foundation & Services.

Type of Utility: [X] Sanitary Sewer [ ] Storm [ ] Water [ ] Street Lights [ ] Other

Method of Marking: [ ] Blue Stakes/Paint [ ] Green Paint [ ] Red Paint [ ] Other

Remarks

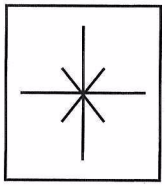
The Municipality Does Not Perform Locates On Private Property.

"CAUTION"

Underground Utility Varies Hand Dig Within 1 Metre (3.28 Feet) of Markings

Legend

Watermain	-W-
Sanitary Sewer	-S-
Storm Sewer	-ST-
Street Light	-SL-
Property Line	-PL-
Watermain Valve	-X-
Curb Stop (Service)	(X)
Hydrant	[X]
Manhole	O MH
Pole	•
Catch Basin	[ ]



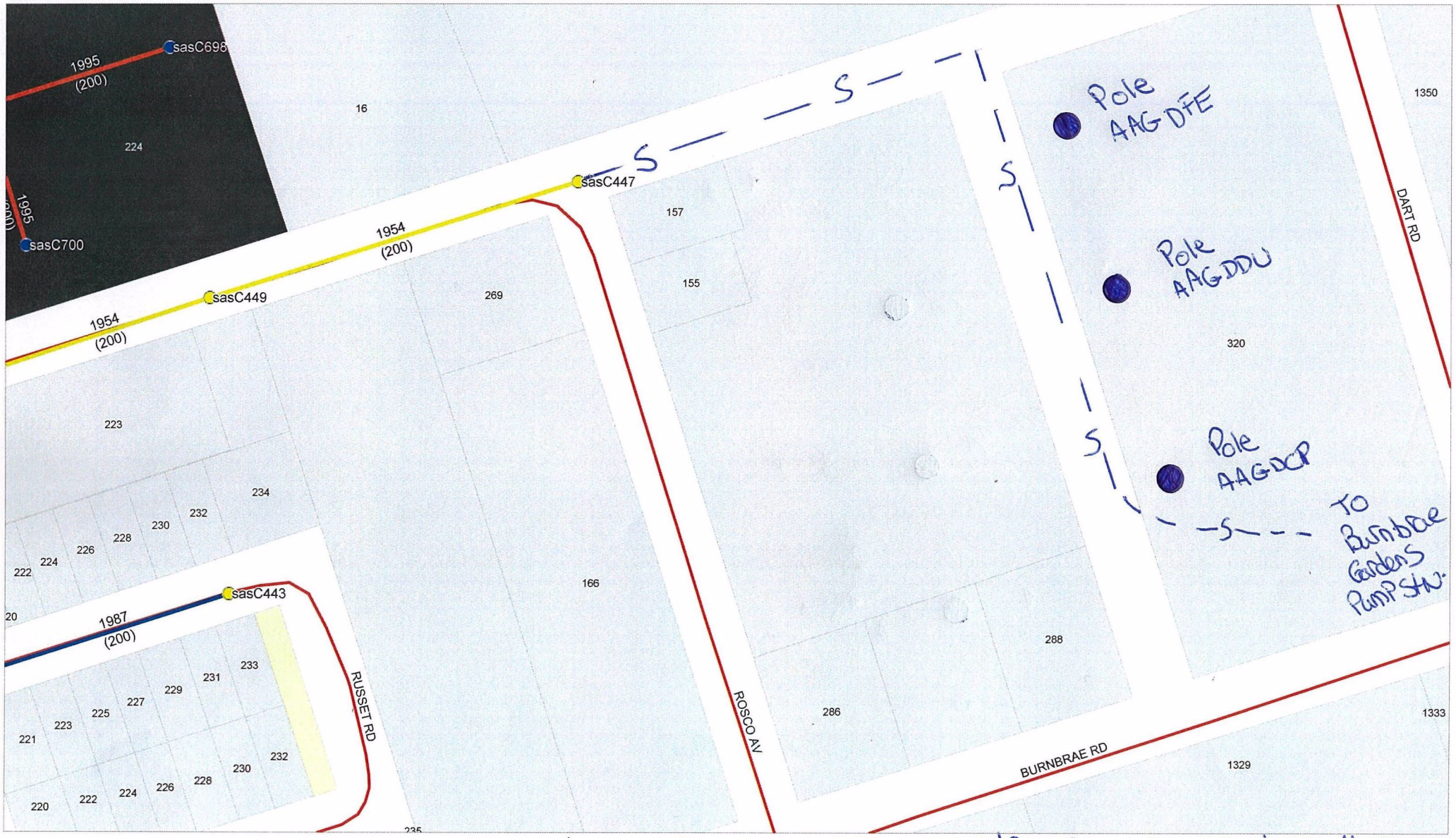
See Attached Drawing.

Dig with Caution along easement.

Located By

LR# 2022162118

Sewer - Marked with Flags as approximate location



Note* There are no service records for sewer along this easement. Dig with extreme caution - sewer is a force main to Burnbrae Gardens Nursing Home.

Municipality of Trent Hills Works Department

Sewer **Water** **Street Lights**

Record of Locating Underground Utilities

Appointment for Date April 25, 2022 Valid for 60 days from this date LR# 2022162118

Requested by McDonald Homes.

Location of Work Burnbrae Rd E

Nature of Work Foundation & Services.

Type of Utility: ☐ Sanitary Sewer ☒ Storm ☐ Water ☐ Street Lights ☐ Other _____

Method of Marking: ☐ Blue Stakes/Paint ☐ Green Paint ☐ Red Paint ☐ Other N/A.

Remarks _____

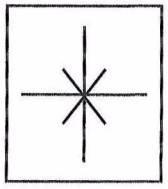
The Municipality Does Not Perform Locates On Private Property.

"CAUTION"

Underground Utility Varies Hand Dig Within 1 Metre (3.28 Feet) of Markings

Legend

Watermain	-W-
Sanitary Sewer	-S-
Storm Sewer	-ST-
Street Light	-SL-
Property Line	-PL-
Watermain Valve	-X-
Curb Stop (Service)	(X)
Hydrant	[X]
Manhole	O MH
Pole	•
Catch Basin	☐



Requested work area clear of storm.

Located By _____

Municipality of Trent Hills Works Department

Sewer **Water** **Street Lights**

Record of Locating Underground Utilities

Appointment for Date April 25, 2022 Valid for 60 days from this date LR# 222162118

Requested by McDonald Homes.

Location of Work Burnbrae Rd E

Nature of Work Foundation & Services.

Type of Utility: ☐ Sanitary Sewer ☐ Storm ☒ Water ☐ Street Lights ☐ Other _____

Method of Marking: ☒ Blue Stakes/Paint ☐ Green Paint ☐ Red Paint ☐ Other _____

Remarks _____

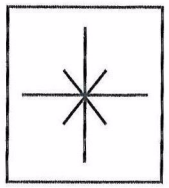
The Municipality Does Not Perform Locates On Private Property.

"CAUTION"

Underground Utility Varies Hand Dig Within 1 Metre (3.28 Feet) of Markings

Legend

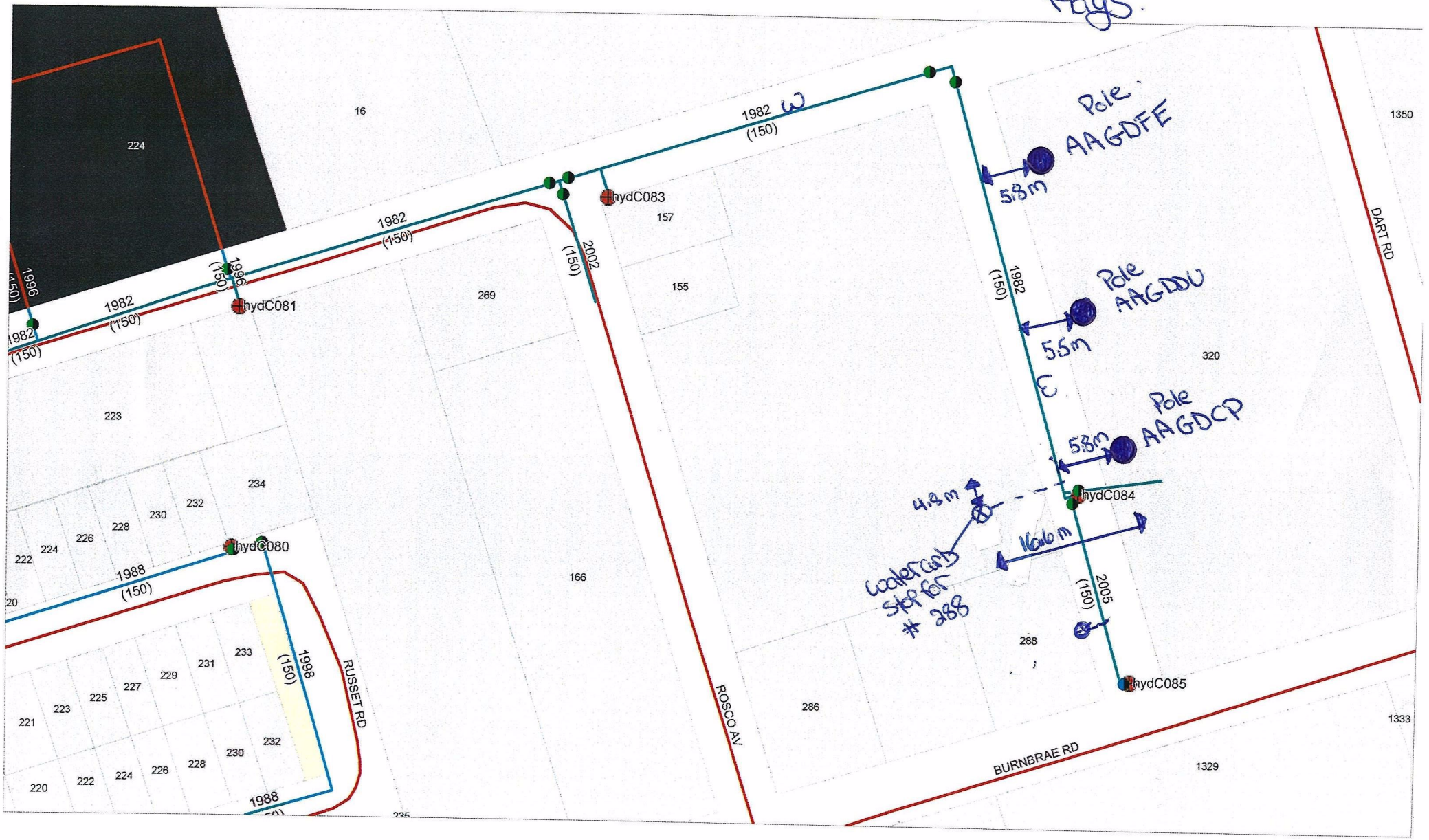
Watermain	-W-
Sanitary Sewer	-S-
Storm Sewer	-ST-
Street Light	-SL-
Property Line	-PL-
Watermain Valve	-X-
Curb Stop (Service)	(X)
Hydrant	[X]
Manhole	O MH
Pole	•
Catch Basin	☐



See Attached Drawing.

Located By _____

LR# 20221621118
water - marked with flags.



Municipality of Trent Hills Works Department

Sewer **Water** **Street Lights**

Record of Locating Underground Utilities

Appointment for Date April 25, 2022 Valid for 60 days from this date LR# 2022162118

Requested by McDonald Homes.

Location of Work Burnbrae Rd E

Nature of Work Foundation & Services.

Type of Utility: ☐ Sanitary Sewer ☐ Storm ☐ Water ☒ Street Lights ☐ Other _____

Method of Marking: ☐ Blue Stakes/Paint ☐ Green Paint ☐ Red Paint ☐ Other N/A.

Remarks _____

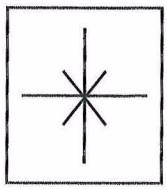
The Municipality Does Not Perform Locates On Private Property.

"CAUTION"

Underground Utility Varies Hand Dig Within 1 Metre (3.28 Feet) of Markings

Legend

Watermain	-W-
Sanitary Sewer	-S-
Storm Sewer	-ST-
Street Light	-SL-
Property Line	-PL-
Watermain Valve	-X-
Curb Stop (Service)	(X)
Hydrant	[X]
Manhole	O MH
Pole	•
Catch Basin	☐



Requested work area clear of street lights.

Located By _____