

APPENDIX

S UTILITY REPORT





MEMO

TO: The City of Brampton
FROM: Meera Shakeel, P.Eng.
CC: Lachlan Fraser, MPIA
SUBJECT: Utility Report
DATE: January 17th, 2023

1 INTRODUCTION

This memorandum is prepared to document the existing and proposed utilities along Part A (Coleraine Drive and Arterial A2) and Part B (Countryside Drive, Clarkway Drive and East-West Arterial) roadways. The following tables include a description of the type of utilities present and proposed, and the relative location of each utility. All the utility information is illustrated on the road design plan and profile drawings.

2 EXISTING CONDITIONS

The existing utility information was provided by both the City of Brampton and the Region of Peel.

UTILITY TYPE	DESCRIPTION
Coleraine Drive	
Wastewater (Sanitary)	<ul style="list-style-type: none">Runs on the east side of the roadway between Mayfield Road and Countryside Drive.Switches to the west side of the roadway before the intersection of Coleraine Drive with Countryside Drive, and runs all the way to the intersection of Coleraine Drive with Regional Road 50.
Gas	<ul style="list-style-type: none">Runs along the west side of the roadway from Mayfield Road to the intersection of Coleraine Drive with Regional Road 50.
Water	<ul style="list-style-type: none">Runs along the west side of the roadway, roughly 600 m north of the intersection of Coleraine Drive with Countryside Drive.Switches to the east side of the roadway at the intersection of Coleraine Drive with Countryside Drive, all the way to the intersection of Coleraine Drive with Regional Road 50.
Hydro	<ul style="list-style-type: none">Runs along the west side of Coleraine Drive 580 m south of Mayfield Road then switches to the east side all the way to the intersection of Coleraine Drive with Regional Road 50.
Countryside Drive	
Bell	<ul style="list-style-type: none">Runs along both sides of the roadway between Gore Road and Coleraine Drive.

UTILITY TYPE	DESCRIPTION
Water	<ul style="list-style-type: none"> Runs along the north side of the roadway starting from Gore Road and switches to the south side of the roadway at the intersection of Countryside Drive with Clarkway Drive, and switches back to the north side of the roadway at about 50 m east of Clarkway Drive, and terminates roughly 300 m past the intersection of Countryside Drive and Coleraine Drive.
Hydro	<ul style="list-style-type: none"> Runs along the north side of the roadway between Gore Road and the intersection of Countryside Drive with Clarkway Drive. Runs along the north side of the roadway from roughly 400 m east of Clarkway Drive to roughly 300 m east of Coleraine Drive, then it switches to the south of the roadway all the way to Regional Road 50.
Gas	<ul style="list-style-type: none"> Runs along the northside of the roadway roughly 800 m east of the Gore Road.
Gas	<ul style="list-style-type: none"> South of Countryside Drive - Roughly 3 km long gas line running 1.9 km south of Countryside Drive between Gore Road and Regional Road 50.
Castlemore Road	
Bell	<ul style="list-style-type: none"> Runs along both sides of the roadway up to Clarkway Drive then switches to the south side up to Regional Road 50.
Gas	<ul style="list-style-type: none"> Runs on the north side of the roadway from Gore Road for roughly 300 m then switches to the south side up to the intersection of Castlemore Road with Clarkway Drive.
Hydro	<ul style="list-style-type: none"> Runs along the centre and south side of the roadway from Gore Road to the intersection of Castlemore Road with Clarkway Drive. The centre line runs past the intersection all the way to Regional Road 50.
Water	<ul style="list-style-type: none"> Runs on the north and centre of the roadway roughly 500 m east of Gore Road to the intersection of Castlemore Road with Clarkway Drive.
Mayfield Road	
Hydro	<ul style="list-style-type: none"> Runs along both sides of the roadway from Gore Road to Regional Road 50. The south line terminates before the intersection of Mayfield Road and Coleraine Drive and the north lines switches to the south before the intersection of Mayfield Road with Regional Road 50.
Gas	<ul style="list-style-type: none"> Runs along the south side of the roadway between Coleraine Drive and Regional Road 50, and Gore Road and Clarkway Drive.
Water	<ul style="list-style-type: none"> Three watermains are running through the centre and south of the roadway from roughly 700 m east of Clarkway to the intersection of Mayfield Road with Clarkway Drive. Three watermains are passing through the intersection of Mayfield Road with Coleraine Drive from roughly 500 m west of this intersection to 300 m east of this intersection.

UTILITY TYPE	DESCRIPTION
Bell	<ul style="list-style-type: none"> Bell lines run on both side of the roadway from roughly 600 m west of Gore Road all the way to Regional Road 50. The south line terminates at the intersection of Mayfield Road with Coleraine Drive.
Gore Road	
Gas	<ul style="list-style-type: none"> Runs along the east side of the roadway between Mayfield Road and Castlemore Road. Roughly 600 m long gas line runs along the west side of the roadway between Mayfield Road and Countryside Drive.
Hydro	<ul style="list-style-type: none"> Runs on the west side of the roadway staring at Mayfield Road and switches to the east side roughly 400 m before Castlemore Road.
Bell	<ul style="list-style-type: none"> Run on the west side between Countryside Drive and Castlemore Road.
Wastewater (Sanitary)	<ul style="list-style-type: none"> Approximately 250 m long sanitary sewer is running on the east side of Gore Road crossing the intersection of Gore Road with Countryside Drive.
Water	<ul style="list-style-type: none"> Approximately 250 m long watermain is running on the west side of Gore Road crossing the intersection of Gore Road with Countryside Drive.
Clarkway Drive	
Wastewater (Sanitary)	<ul style="list-style-type: none"> Runs on the east side of the roadway between Countryside Drive and Castlemore Road.
Water	<ul style="list-style-type: none"> Runs on the west side of the roadway all the way from Mayfield Road to Castlemore Drive. The watermain switches to the east side for a small stretch (approximately 430 m), roughly 700 m south of Countryside Drive.
Hydro	<ul style="list-style-type: none"> Runs on the west side of the roadway starting at Mayfield Road; switches to the east side approximately 500 m south of the Mayfield Road and then switches back to the west side of the roadway approximately 600 m south of Countryside Drive.
Bell	<ul style="list-style-type: none"> Runs on the west side of the roadway starting at Mayfield Road; switches to the east side of the roadway approximately 500 m south of Mayfield Road and extend to Countryside Drive. Runs along both sides of the roadway from Countryside Drive to Castlemore Road.
Regional Road 50	
Bell	<ul style="list-style-type: none"> Runs on the east side between Mayfield Road and Countryside Drive. Runs on the west side Countryside Drive to Castlemore Road.
Hydro	<ul style="list-style-type: none"> Runs on the west side starting at Mayfield Road; switches to the east side after crossing Countryside Drive all the way to Castlemore Road. Another line runs on the west side of the roadway from roughly 1 km south of Countryside Drive all the way to Castlemore Road.



UTILITY TYPE	DESCRIPTION
Wastewater (Sanitary)	<ul style="list-style-type: none"> Approximately 550 m long sanitary sewer runs on the west side of the road starting at Countryside Drive. The sanitary sewer running along Coleraine Drive turns to the west side of Regional Road 50 at the intersection of these two roadways and runs along Regional Road 50 for roughly 250 m.
Gas	<ul style="list-style-type: none"> Runs on the east side of the roadway starting roughly 1 km south of Countryside Drive all the way to Castlemore Road.
Water	<ul style="list-style-type: none"> The watermain running along Coleraine Drive turns to the west side of Regional Road 50 at the intersection of these two roadways and runs along Regional Road 50 for roughly 150 m.

In addition to above, the study area is also provided with TransCanada and Enbridge gas pipelines running east-west, approximately 1.3 km north of Castlemore Road. The location of buried pipelines was obtained from TC Energy as well as field investigations done by Candevcon.

3 FUTURE CONDITIONS

The future infrastructure information was provided by the City and the Region. The future water and wastewater (Sanitary) sewer information was extracted from the Water and Wastewater Masterplan (Dated June 2020). WSP has also prepared a storm sewer design along Coleraine Drive.

UTILITY TYPE	DESCRIPTION
Countryside Drive	
Water	<ul style="list-style-type: none"> Proposed watermain running along the south side of the roadway between Gore Road and Coleraine Drive.
Hydro	<ul style="list-style-type: none"> Overhead hydro line running on the south side of the roadway between Gore Road and Regional Road 50
Wastewater (Sanitary)	<ul style="list-style-type: none"> Sanitary sewer is running all the way along Countryside Drive
Storm	<ul style="list-style-type: none"> Approximately 100 m long storm sewer running on the north side of the roadway, west of Coleraine Drive
East-West Arterial	
Water	<ul style="list-style-type: none"> Proposed watermain running along the south side of the roadway from Gore Road all the way to the intersection of East-West Arterial with Arterial A2. The watermain travels all the way up to Mayfield Road, running along Coleraine Drive.
Hydro	<ul style="list-style-type: none"> Overhead hydro line running along the south side of the roadway from Gore Road all the way to the intersection of East-West Arterial with Arterial A2
Wastewater (Sanitary)	<ul style="list-style-type: none"> Proposed sanitary sewer running along the centre of the roadway between the Clarkway Drive and the intersection of East-West Arterial with Arterial A2
Clarkway Drive	

UTILITY TYPE	DESCRIPTION
Wastewater (Sanitary)	<ul style="list-style-type: none"> Proposed Sanitary sewer running along the east side of the roadway between Mayfield Road and Countryside Drive
Hydro	<ul style="list-style-type: none"> Overhead hydro line running along the east side of the roadway from Mayfield Road to Castlemore Road
Water	<ul style="list-style-type: none"> Proposed watermain running along the west side between the East-West Arterial and Castlemore Road, and Countryside Drive and Mayfield Road
Arterial A2	
Wastewater (Sanitary)	<ul style="list-style-type: none"> Approximately 750 m long sanitary sewer running along the centre of the roadway, north of Countryside Drive
Hydro	<ul style="list-style-type: none"> Overhead hydro line running along the east side of the roadway from Mayfield Road to Countryside Drive. It switches to underground hydro line after Countryside Drive all the way to Regional Road 50
Water	<ul style="list-style-type: none"> Proposed watermain running along the west side from Countryside Drive all the way to Regional Road 50
Coleraine Drive	
Storm	<ul style="list-style-type: none"> Proposed storm sewer running along the east side of the roadway starting at Countryside Drive and terminates roughly 150 m before the intersection of Coleraine Drive with Arterial A2
Water	<ul style="list-style-type: none"> Proposed watermain running along the west side of the roadway starting at Mayfield Road and switches to the east side right before crossing Countryside Drive all the way to the intersection of Coleraine Drive with Arterial A2
Hydro	<ul style="list-style-type: none"> Overhead hydro line running along the west side of the roadway from Mayfield Road to Countryside Drive. It switches to underground hydro line after Countryside Drive all the way to the intersection of Coleraine Drive with Arterial A2

4 POTENTIAL IMPACTS & MITIGATION

All the existing and future utilities are illustrated on submitted/approved road design plan and profile drawings. It should be noted that at locations where the road profile is raised or lowered for future conditions, a potential impact to utilities/infrastructure may occur due to less cover, or additional loading. These impacted locations are identified on road design sheets and potential mitigation measures can be developed during the detailed design stage as plans are finalized. Mitigation measures can include but will not limited to the following:

- Provide adequate cover;
- Provide insulation;
- Directional drilling;
- Revisit proposed road profile/property requirements; and/or
- Install pumping station.